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ABSTRACT

This volume provides comparative data for faculty salaries in public and private colleges, based on an annual survey of over 700 colleges and universities. Data cover the following 15 disciplines: accounting, agrifusiness and agricultural production, anthropology, architecture and environmental design, area and ethnic studies, audiology and speech pathology, business administration and management, business and management, business economics, chemistry, communication technologies, communications, computer and information sciences, curriculum and instruction, and dramatic arts. Presented for each discipline is a summary of the overall average salary increases between the baseline year of 1985-86 and the year 1988-89, for both state and private institutions. Data from institutions participating in both years are compared with each other and with the consumer price index. Also included are average salaries by rank and the faculty mix percentage as well as comparisons with other disciplines. The participating institutions are listed. (DB)

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# SALARY-TREND STUDIES OF FACULTY FOR THE YEARS 1985-86 AND 1988-89 IN THE FOLLOWING DISCIPLINES/MAJOR FIELDS:

Accounting; Agribusiness and Agricultural Production; Anthropology; Architecture and Environmental Design; Area and Ethnic Studies; Audiology and Speech Pathology; Business Administration and Management; Business and Management; Business Economics; Chemistry; Communication Technologies; Communications; Computer & Information Sciences; Curriculum and Instruction; and Dramatic Arts

by

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TO THE EDUCATIONAL RESOURCES

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## Foreword

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, DC, in cooperation with Appalachian State University in Boone, NC, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, DC, and the other for private senior colleges and universities.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines/major fields, 15 of which are included herein in alphabetical order. The disciplines/major fields were chosen from among those defined by the Higher Education General Information Survey (HEGIS) Taxonomy and by A Classification of Instructional Programs (CIP), 1985. Each of the 15 disciplines/major fields presents a summary of the overall average salary increases in that discipline/major field from the "baseline year" of 1985-86 to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA'S STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

In addition to listing the average salaries in the 15 individual disciplines/major fields for both state and private participating institutions by rank, including "new assistant professor," and listing the faculty mix percentage (FAC MIX PCT) and the salary factor, comparisons are made in each of the 15 individual disciplines/major fields between the two studies for each of the two study years (1985-86 and 1988-89) and with the CPI (Consumer Price Index) of changes in cost-of-living.

The list of all 45 selected academic disciplines/major fields studied is found in Appendix A of each discipline/major field included herein, and the list of all participating senior colleges and universities is found in Appendix B of each discipline/major field included herein.



# SALARY-TREND STUDY OF FACULTY IN ACCOUNTING

# FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Rebecca Kaenzig

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including accounting. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by <u>A Classification of Instructional Programs (CIP)</u>, 1985. The definition of the discipline/major field of accounting in the <u>CIP</u> is as follows:

An instructional program that describes the principles, procedures, and theories of organizing, maintaining, and auditing business and financial transactions.\*

[\*Gerald S. Malitz, A <u>Classification of Instructional Programs</u> (Washington, D.C.: National Center for Education Statistics, [1985], p. 45.--06.02)]

This article presents a summary of the overall average salary increases in



the discipline/major field of accounting from the "baseline year" of 1985-86 to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA'S STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

In addition to listing the average salaries in accounting for both state and private participating institutions by rank, including "new assistant professor," and listing the faculty mix percentage (FAC MIX PCT) and the salary factor, comparisons are made between the two studies for each of the two study years (1985-86 and 1988-89) and with the CPI (Consumer Price Index) of changes in cost-of-living.

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy and the CPI yields a more precise representation of "real" salary increases over time.

The salary is based on a nine- or ten-month academic year salary of fulltime faculty only. It does not include any faculty members teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary is based on the study information with the assumption that all employees were full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.



The "N/IN" means the number of institutions that reported salary data for a given academic rank and discipline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .29 for associate professor of accounting in the 1985-86 state study means that 29 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 1.17 for associate professors in the discipline/major field of accounting in the 1985-86 state study means that their salaries are 17 percent higher than the average of all associate professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the 11 of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of accounting with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make



NEW ASS0 ASST ASST PROF PROF PROF INSTRUCTOR ALL RANKS SALARY NUM N/IN ACCOUNTING STATE, 1985-86: AVERAGE SALARY: 43107 309 104 36446 377 123 31046 438 136 32740 68 53 23317 183 81 34372 1307 148 FAC MIX PCT: 0.24 0.29 0.05 0.14 1.00 0.34 SALARY FACTOR: 1.13 1.17 1.20 1.12 1.10 1.31 ALL MAJOR FIELDS AVERAGE SALARY: 38112 17636 31074 15884 25911 14019 25065 1932 20777 3986 31282 51525 202 FAC MIX 0.34 0.04 1.00 PCT: 0.31 0.27 0.08 STATE, 1988-89: ACCOUNTING AVERAGE SALARY: 51945 361 110 43608 402 130 38018 461 137 40728 75 52 26681 174 81 41811 1398 152 FAC MIX 0.26 PCT: 0.29 0.05 0.33 0.12 1.00 SALARY FACTOR: 1.17 1.20 1.25 1.39 1.13 1.14 ALL MAJOR FIELDS AVERAGE SALARY: 44577 18904 36431 16110 30416 15286 23527 4252 29332 2573 36562 54552 202 FAC MIX PCT: 0.30 0.35 0.28 0.05 0.08 1.00 PRIVATE, 1985-86: ACCOUNTING AVERAGE SALARY: 42276 112 59 34455 194 91 27901 257 116 26458 50 30 26 21213 66 31780 629 157 FAC MIX PCT: 0.18 0.31 0.41 0.05 0.10 1.00 SALARY FACTOR: 1.11 1.17 1.16 1.13 1.09 1.07 ALL MAJOR FIELDS AVERAGE SALARY: 38230 8391 29339 8352 24113 8321 23430 1204 19473 1985 29765 27049 259 FAC MIX PCT: 0.31 0.31 0.31 0.07 1.00 0.04 PRIVATE, 1988-89: ACCOUNTING AVERAGE SALARY: 51487 114 57 41805 214 94 40 37 34239 283 124 38388 24313 41 30 39113 652 158 FAC MIX PCT: 0.17 0.43 0.33 0.06 0.06 1.00 SALARY FACTOR: 1.15 1.21 1.20 1.36 1.07 1.11 ALL MAJOR FIELDS **AVERAGE** SALARY: 44926 8877 34585 8852 28554 8980 28166 1388 22636 1918 35099 28627 259 FAC MIX PCT: 0.31 0.31 0.31 0.05 0.07 1.00



:

based on a simple comparison of averages.

RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of accounting was reported in 148 of the 202 state (AASCU) institutions. Average salary of the 1,307 faculty was \$34,372. This average salary was approximately 10 percent (1.10) higher than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of accounting was reported in 152 of the same 202 state (AASCU) institutions. The average salary of the 1,398 faculty was \$41,811. This average salary was approximately 14 percent (1.14) higher than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in accounting after three years in the state institutions studied was 21.6 percent (\$41,811 minus \$34,372 equals \$7,439). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 11 percent or an average of 3.7 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of accounting (21.6%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 4.7 percent (21.6% minus 16.9% equals 4.7%) less than faculty in the discipline/major field of accounting.

The reader may note that the faculty mix percentage in accounting is lower at the professor rank than at the assistant professor rank in both the state



studies: 0.24 vs 0.34 (1985-86) and 0.26 vs 0.33 (1988-89), respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies is as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89) respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to accounting in both of the state studies.

Finally, the hiring rate of new assistant professors in accounting is high in the state studies: 5.2 percent (68/1,307) in 1985-86 vs. 3.8 percent (1,932/51,525) in ALL MAJOR FIELDS in 1985-86. Also, the hiring rate of new assistant professors in accounting in 1988-89 was 5.4 percent (75/1,398) vs. 4.7 percent (2,573/54,552) in ALL MAJOR FIELDS that same year. In other words the hiring rate in the discipline/major field of accounting is more than for ALL MAJOR FIELDS in both the state studies of 1985-86 and 1988-89.

# RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of accounting was reported in 157 of the 259 private institutions. The average salary of the 629 faculty was \$31,780. This average salary was approximately 7 percent (1.07) higher than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of accounting was reported in 158 of the same 259 private institutions. The average salary of the 652 faculty was \$39,113. This average salary was approximately 11 percent (1.11) higher than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private study.

The increase in average salaries for all faculty in accounting after three



years in the private institutions studied was 23 percent (\$39,113 minus \$31,780 equals \$7,333). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 12.4 percent or 4.1 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of accounting (23%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 5.1 percent (23% minus 17.9% equals 5.1%) less than faculty in the discipline/major field of accounting.

In the discipline/major field of accounting, the reader may note that the faculty mix percentage at the professor rank is much less than the assistant professor rank in the private studies: 0.18 vs. 0.41 (1985-86) respectively; and 0.17 vs. 0.43 (1988-89) respectively. This is quite different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86) respectively; and 0.31 vs. 0.31 (1988-89) respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to accounting in both private studies.

Finally, the reader may note that the hiring rate of new assistant professors in accounting in the private studies was greater than the hiring rate in ALL MAJOR FIELDS both in 1985-86, 4.8 percent (30/629) vs. 4.5 percent (1,204/27,049) respectively; and in 1988-89, 6.1 percent (40/652) vs. 4.9 percent (1,388/28,627), respectively. In other words the hiring rate in the discipline/major field of accounting exceeds ALL MAJOR FIELDS in both the private studies of 1985-86 and 1988-89.



#### CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/major field of accounting and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 and the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted both for the baseline year and for the trend year—a total of four studies. A total of 4,132 faculty in the discipline/major field of accounting participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of accounting is currently (1988-89) some 14 and 11 percent above the overall average faculty salary of ALL MAJOR FIELDS for both the state and private studies, respectively. The average faculty salary for accounting in the private institutions was 8 percent less in comparison to that in the state institutions in 1985-86, and, the overall salary factor in the private institutions is now (1988-89) almost 7 percent lower in comparison to that for the state institutions.

Second, the CPI of October 198 in comparison to the CPI of October 1985, indicates that the faculty in accounting, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Accounting faculty salaries in both the state and private institutions exceeded faculty in ALL MAJOR FIELDS during this same period by



o

14 percent and i2 percent, respectively. During the past three years the salaries of accounting faculty in the state institutions continued to stay ahead of their colleagues in the private institutions but the "spread" decreased from 8 percent to 6 percent.

Third, in the discipline/major field of accounting the assistant professor rank has a greater percentage compared to full and associate professor ranks for both the state and private studies. The full professor rank is increasing in the state institutions, but decreasing, slightly, in the private transfer.

Fourth, it seems that there confinues to be a healthy percentage increase of new assistant professors being himed both in the state institutions (5 percent each both in 1985-86 and 1988-89) and in the private institutions (5 percent in 1985-86 and 6 percent in 1688-89).

Now that a rather significant data base on faculty salaries has been developed, it is anticipated that additional salary-trend studies will be effected both in accounting, and in other 44 relevant disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Rebecca Kaenzig is assistant professor in the Department of Accounting at Appalachian State University, Boone, North Carolina.

#### APPENDICES:



A - OVERALL LIST OF SELECTED DISCIPLINES, page 10

B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13

#### APPENDIX A

#### OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPCLOGY

LIBRARY AND AKCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDICLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

CHEMISTRY

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

SECRETARIAL AND RELATED PROGRAMS

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

TOTAL: 45



#### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

#### Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, The Military College of S.C., The (SC) Clar's University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Nelta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL)

Fort Hays State University (K3)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idanc State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western ... Le College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (IL) Northern State College (SD)



# Participating Institutions, continued:

Northwest Missouri State University (MO) University of the District of Columbia, The (DC) University of Houston at Clear Lake (TX) Oa' nd University (MI) University of Lowell (MA) Ol, ominion University (VA) Oregon Institute of Technology (OR) University of Maine at Presque Isle (ME) University of Maryland-Baltimore County, The (MD) Pan American University (TX) University of Missouri - St. Louis (MO) Peru State College (NB) Pittsburg State University (KS) University of Montevallo (AL) Plymouth State College (NH) University of Nebraska at Omaha (NE) University of Nevada at Las Vegas (NV) Purdue University Calumet (IN) University of North Carolina at Charlotte (NC) Radford University (VA) University of North Carolina at Greensboro (NC) Ramapo College of New Jersey (NJ) University of Northern Colorado (CO) Richard Stockton State College (NJ) Saginaw Valley State University (MI) University of Northern Iowa (IA) University of Science & Arts of Oklahoma (OK) Salem State College (MA) Salisbury State University (MD) University of South Alabama (AL) Sam Houston State University (TX) University of South Carolina at Spartanburg (SC) University of South Florida (FL) San Diego State University (CA) University of Southern Colorado (CO) Sangamon State University (IL) University of Southern Indiana (IN) Savannah State College (GA) Shippensburg University of Pennsylvania (PA) University of Southern Maine (ME) Sonoma State University (CA) University of Southwestern Louisiana (LA) South Dakota School of Mines & Technology (SD) University of Tennessee at Chattanooga (TN) Southeast Missouri State University (MO) University of Tennessee at Martin (TN) University of Texas at Dallas, The (TX) Southeastern Louisiana University (LA) Southern Arkansas University (AR) University of Texas at San Antonio (TX) Southern Connecticut State University (CT) University of Wisconsin - Eau Claire (WI) University of Wisconsin - La Crosse (WI) Southern Illinois University at Edwardsville (IL) University of Wisconsin - Oshkosh (WI) Southern Illinois University of Carbondale (IL) University of Wisconsin - Platteville (WI) Southern Orange State College (OR) University of Wisconsin - Stevens Point (WI) Southwest Missouri State University (MO) Southwest State University (MN) University of Wisconsin - Stout (WI) University of Wisconsin - Superior (WI) Southwest Texas State University (TX) University of Wisconsin - Whitewater (WI) Southwestern Oklahoma State University (OK) St. Cloud State University (MN) Valdosta State College (GA) State University of New York at Plattsburgh (NY) Valley City State University (ND) State University of New York College at Brockport (NY) Weber State College (UT) State University of New York Co ege at Buffalo (NY) West Georgia College (GA) State University of New York College at Cortland (NY) West Liberty State College (WV) West Texas State University (TX) State University of New York College at Fredonia (NY) State University of New York College at Genesco (NY) West Virginia College of Graduate Studies (WV) Western Carolina University (NC) Stephen F. Austin State University (TX) SUNY College of Technology at Utica/Rome (NY) Western Illinois University (IL) Western Kentucky University (KY) Tennessee Technological University (TN) Western Michigan University (MI) Texas A & I University (TX) Western Montana College (MT) Texas A & M University at Galveston (TX) Towson State University (MD) Western New Mexico University (NM) Western Oregon State College (OR) Trenton State College (NJ) Troy State University (AL) Western State College of Colorado (CO) Western Washington University (WA) University of Akron, The (OH) Wichita State University, The (KS) University of Arkansas at Little Rock (AR) William Paterson College (NJ) University of Baltimore (MD) Winthrop College (SC) University of Central Arkansas (AR) University of Colorado at Colorado Springs(CO) Youngstown State University (OH)

Total: 202



#### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

## Institutions Participating in Both Studies:

Adelphi University (NY) College Misericordia (PA) College of Great Falls (MT) Agnes Scott College (GA) Albertus Magnus College (CT) College of Mount St. Joseph (OH) College of Notre Dame of Maryland (MD) Alfred University (NY) Allegheny College (PA) College of Saint Benedict (MN) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (NJ) College of St. Joseph (VT) Alma College (MI) Alverno College (WI) College of Saint Rose, The (NY) American Technological University (TX) College of St. Scholastica (MN) American University, The (DC) College of the Holy Cross (MA) Amherst College (MA) Columbia College (MO) Anna Maria College (MA) Concordia College (MI) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Baldwin-Wallace College (OH) Defiance College, The (OH) Barnard College (NY) DePaul University (IL) DePauw University (IN) Barry University (FL) Bellarmine College (KY) Dickinson College (PA) Belmont Abbey College (NC) Doane College (NE) Bethany College (WV) Dominican College of Blavelt (NY) Drake University (IA) Bethel College (KS) Bethel College (MN) Drew University (NJ) Bethune-Cookman College (FL) Eastern Mennonite College and Seminary (VA) Biola University (CA) Eckerd College (FL) Birmingham-Southern College (AL) Elmhurst College (IL) Bloomfield College (NJ) Elms College (MA) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Bridgewater College (VA) Franklin and Marshall College (PA) Bryant College (RI) Franklin Pierce College (NH) Bucknall University (PA) Furman University (SC) Butler University (IN) George Fox College (OR) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Catholic University of America, The (DC) Georgetown University (DC) Catholic University of Puerto Rico (PR) Georgian Court College (NJ) Gonzaga 'niversity (WA) Cedar Crest College (PA) Grand View Coilege (IA) Central College (IA) Greensboro College (NC) Central Wesleyan College (SC) Christian Brothers College (TN) Hamilton College (NY) Hamline University (MN) Clarkson University (NY)



#### Participating Institutions, continued:

Missouri Papt st College 'MO) Hampton University (VA) Moravian College (PA) Hannibal-LaGrange College (M7) Mount Mary College (WI) Hartwick College (NY) Mount Mercy College (IA) Hastings College (NE) Mount St. Mary's College (CA) Heidelberg College (OH) Holy Famil / College (PA) Mount Vernon College (DC) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Neumann College (PA) Illinois Benedictine College (IL) Illinois Institute of Technology (IL) New England College (NH) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) Norwich University (VT) John Carroll University ((OH) Johns Hopkins University (MD) Oakwood College (AL, Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Pikeville College (KY) Lafayette College (PA) Lakeiand College (WI) Presbyterian College (SC) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Lebanon Valley College (PA) Principia College (IL) Quincy College (IL) LeMoyne College (NY) Lenoir-Rhyne College (NC) Randolph-Macon College (VA) Lewis & Clark College (OR) Reed College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Rensselaer Polytechnic Institute (NY) Long Island University (NY) Rider College (NJ) Loras College (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Lubbock Christian University (1X) Rockford College (IL) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lynchburg College (VA) Roosevelt University (IL) Lyoming College (PA) Rose-Hulman Institute of Technology (IN) Madonna College (MI) Marist College (NY) Russell-Sage College (NY) Saint Edward's University (TX) Mars Hill College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Marymount College (NY) Saint Mary College (KS) Saint Vincent College (PA) Marymount Manhattan College (NY) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) McPherson College (KS) Salve Regina -- The Newport College (RI) Samford University (AL) Mercy College of Detroit (MI) Santa Clara University (CA) Mercyhurst College (PA) Meredith College (NC) School of the Ozarks, The (MO) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Millsaps College (MS) Seton Hill (PA)



#### Participating Institutions, continued:

Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stavens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria Coilege (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC) Wittenburg University (CH)

Total: 259



## SALARY-TREND STUDY OF FACULTY IN AGRIBUSINESS AND AGRICULTURAL PRODUCTION

## FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Sandhya Maharaj

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including agribusiness and agricultural production. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by A Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of agribusiness and agricultural production in the CIP is as follows:

A summary of groups of instructional programs that prepare individuals to apply scientific knowledge and methods, and technical skills in support of agribusiness and agricultural activities concerned with the production and propogation of crops and animals, supplies and services, mechanics, products processing and marketing, and horticulture.\*

[\*Gerald S. Malitz, A <u>Classification of Instructional Programs</u> (Washington, D.C.: National Center for Education Statistics, [1985], p. 33.--01.)]

This article presents a summary of the overall average salary increases in



the discipline/major field of agribusiness and agricultural production from the "baseline year" of 1985-86 to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA'S STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

This study lists the average salaries in agribusiness and agricultural production for both state and private participating institutions by rank, including "new assistant professor," the faculty mix percentage (FAC MIX PCT) and the salary factor. In addition comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Thus, by comparing changes in faculty salaries with the CPI, a more precise representation of the "real" salary increases is yielded.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. Full-time faculty members are those who teach no less than 51 percent of the time. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary displayed is computed from all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.

The "N/IN" means the number of institutions that reported salary data for a



given academic rank and discipline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .28 for associate professor of agribusiness and agricultural production in the 1985-86 state study means that 28 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 0.95 for associate professors in the discipline/major field of agribusiness and agricultural production in the 1985-86 state study means that their salaries are 5 percent lower than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of agribusiness and agricultural production with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "haseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make based on a simple comparison of averages.



NEW ASS0 ASST ASST PROF PROF **PROF** PROF INSTRUCTOR ALL RANKS SALARY NUM N/IN STATE, 1985-86: AGRIBUSINESS AND AGRICULTURAL PRODUCTION AVERAGE SALARY: 35560 112 32 29564 24341 20529 89 36 25715 92 36 17 14 22 1/ 29940 315 45 FAC MIX PCT: 0.36 0.28 0.29 0.05 0.07 1.00 SALARY 0.95 0.99 0.97 0.99 FACTOR: 0.93 0.96 ALL MAJOR FIELDS AVERAGE 31074 15884 25911 14019 SALARY: 38112 17636 25065 1932 20771 3986 31282 51525 202 FAC MIX PCT: 0.34 0.31 0.27 0.04 0.08 1.00 STATE, 1988-89: AGRIBUSINESS AND AGRICULTURAL PRODUCTION AVERAGE SALARY: 39791 103 31 34023 83 32 29453 68 28 29742 21661 34482 267 40 FAC MIX 0.39 0.31 0.25 0.03 0.05 PCT: 1.00 SALARY FACTOR: 0.89 0.93 0.97 1.01 0.92 0.94 ALL MAJOR FIELDS AVERAGE SALARY: 44577 18904 36431 16110 30416 15286 29332 2573 23527 4252 36562 54552 202 FAC MIX PCT: 0.35 0.30 0.28 0.05 0.08 1.00 PRIVATE, 1985-86: AGRIBUSINESS AND AGRICULTURAL PRODUCTION AVERAGE SALARY: 41219 24423 23082 7 NONE 15125 2 1 27370 19 9 FAC MIX PCT: 0.26 0.26 0.37 0.11 1.00 SALARY FACTOR: 1.08 0.83 0.96 0.78 0.92 ALL MAJOR FIELDS AVERAGE 29339 8352 GALARY: 38230 8391 24113 8321 23430 1204 19473 1985 29765 27049 259 FAC MIX PCT: 0.31 0.31 0.31 0.04 0.07 1.00 PRIVATE, 1988-89: AGRIBUSINESS AND AGRIJULTURAL PRODUCTION **AVERAGE** SALARY: 33969 25935 23318 NONE NONE 27560 10 6 FAC MIX PCT: 0.30 0.30 0.40 1.00 SALARY FACTOR: 0.76 0.67 0.91 0.79 ALL AJOR FIELDS **AVERAGE** SALARY: 44926 8877 34585 8852 28554 8980 28166 1388 22636 1918 35099 28627 259 FAC MIX PCT: 0.31 0.31 0.31 0.05 0.07 1.00



RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of agribusiness and agricultural production was reported in 45 of the 202 state (AASCU) institutions. The average salary of the 315 faculty was \$29,940. This average salary was approximately 4 percent (0.96) lower than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of agribusiness and agricultural production was reported in 40 of the same 202 state (AASCU) institutions. The average salary of the 267 faculty was \$34,482. This average salary was approximately 6 percent (0.94) lower than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in the discipline/major field of agribusiness and agricultural production after three years in the stace institutions studied was 15.2 percent (\$34,482 minus \$29,940 equals \$4,542). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase therefore, in average faculty salaries over the three-year time period is 4.6 percent or an average of 1.5 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of agribusiness and agricultural production (15.2%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 1.7 percent (16.9% minus 15.2% equals 1.7%) more than faculty in the discipline/major field of agribusiness and agricultural production.



The reader may note that the faculty mix percentage in agribusiness and agricultural production is higher at the professor rank than at the assistant professor rank in both the state studies: 0.36 vs 0.29 (1985-86) and 0.39 vs 0.25 (1988-89), respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively. In other words ALL MAJOR FIELDS has approximately equal percentages of professors and assistant professors compared to agribusiness and agricultural production in both of the state studies.

Finally, the hiring rate of new assistant professors in agribusiness and agricultural production in the state studies was higher than the hiring rate in ALL MAJOR FIELDS in 1985-86, 5.4 percent (17/315) vs. 3.7 percent (1,932/51,525), respectively; whereas the hiring rate of new assistant professors in agribusiness and agricultural production in the state studies was lower than the hiring rate in ALL MAJOR FIELDS in 1988-89, 3.4 percent (9/267) vs. 4.7 percent (2,573/54,552), respectively.

## RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of agribusiness and agricultural production was reported in 9 of the 259 private institutions. The average salary of the 19 faculty was \$27,370. This average salary was about 8 percent (0.92) lower than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of agribusiness and agricultural production was reported in 6 of the same 259 private institutions. The average salary of the 10 faculty was \$27,560. This average salary was about 21 percent (0.79) lower than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89



private study.

The increase in average salaries for all faculty in agribusiness and agricultural production after three years in the private institutions studied was 0.7 percent (\$27,560 minus \$27,370 equals \$190). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A decrease, therefore, in average faculty salaries over the three-year time period is -9.9 percent or -3.3 percent each year below the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of agribusiness and agricultural production (0.7%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 17.2 percent (17.9% minus 0.7% equals 17.2%) more than faculty in agribusiness and agricultural production.

In the discipline/major field of agribusiness and agricultural production, the reader may note that the faculty mix percentage at the professor rank is lower than at the assistant professor rank in the private studies: 0.26 vs. 0.37 (1985-86), respectively; and 0.30 vs. 0.40 (1988-89), respectively. This is somewhat different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1988-89), respectively. In other words ALL MAJOR FIELDS had an equal percentage of professors and assistant professors in both private studies and a lower percentage of assistant professors in both private studies when compared to agribusiness and agricultural production.

Finally, the reader may note that the hiring rate of new assistant professors in agribusiness and agricultural production in the private studies was lower than the hiring rate in ALL MAJOR FIELDS in 1985-86, 0.0 percent vs. 4.5 percent (12J4/27,049), respectively; and in 1988-89, 0.0 percent vs. 4.8 percent (1388/23627), respectively.



#### CCNCLUDING REMARKS

This article presented salary-trend information on the academic discipline/major field of agribusiness and agricultural production and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted both for the baseline year and for the trend year—a total of four studies. A total of 611 faculty in the discipline/major field of agribusiness and agricultural production participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of agribusiness and agricultural production is currently (1988-89) some 6 and 21 percent below the overall average faculty salaries of ALL MAJOR FIELDS for both the state and private studies, respectively. The average faculty salary for agribusiness and agricultural production in the private institutions was 9.4 percent lower than that in the state institutions in 1985-86. The overall salary average in the private institutions is now (1988-89) 25 percent less in comparison to that for the state institutions.

Second. the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in agribusiness and agricultural production, in both the state and private institutions, received overall salary increases for three years above the cost-of-living, but there was only the slightest increase for private institutions.



Faculty salaries in both the state and private institutions lagged behind faculty salaries in ALL MAJOR FIELDS during this same period. Agribusiness and agricultural production faculty in both the state and private institutions have much catching up to do in salary in comparison with ALL MAJOR FIELDS.

Third, in the discipline/major field of agribusiness and agricultural production the full professor rank has a greater percentage compared to the assistant professor rank in the state studies, but it is just the opposite in the private studies. There are no new assistant professors being hired in the private institutions in comparison to the state institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in agribusiness and agricultural production, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Sandhya Maharaj is a research analyst in the Office of Equal Opportunity Programs at Appalachian State University, Boone, North Carolina.

#### APPENDICES:



A - OVERALL LIST OF SELECTED DISCIPLINES, page 10

B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13

## APPENDIY A

# OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

CHEMISTRY

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

. COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION

SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

 ${\tt GEOGRAPHY}$ 

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

TOTAL: 45



#### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

# Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Nawport College (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL) Fort Hays State University (KS)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NII) Kent State University (OH) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (IA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (A2) Northern Illinois University (IL) Northern State College (SD)



# Participating institutions, continued:

University of the District of Columbia, The (DC) Northwest Missouri State University (MO) University of Houston at Clear Lake (TX) Oakland University (MI) University of Lowell (MA) Old Dominion University (VA) University of Maine at Presque Isle (ME) Oregon Institute of Technology (OR) University of Maryland-Baltimore County, The MD) Pan American University (TX) University of Missouri - St. Louis (MO) Peru State College (NB) Pittsburg State University (KS) University of Montevallo (AL) University of Nebraska at Omaha (NE) Plymouth State College (NH) University of Nevada at Las Vegas (NV) Purdue University Calumet (IN) University of North Carolina at Charlotte (NC) Radford University (VA) University of North Carolina at Greensboro (NC) Ramapo College of New Jersey (NJ) University of Northern Colorado (CO) Richard Stockton State College (NJ) University of Northern Iowa (IA) Saginaw Valley State University (MI) University of Science & Arts of Oklahoma (OK) Salem State College (MA) University of South Alabama (AL) Salisbury State University (MD) University of South Carolina at Spartanburg (SC) Sam Houston State University (TX) University of South Florida (FL) Sa. Diego State University (CA) University of Southern Colorado (CO) Sangamon State University (IL) University of Southern Indiana (IN) Savannah State College (GA) Shippensburg University of Pennsylvania (PA) University of Southern Maine (ME) University of Southwestern Louisiana (LA) Sonoma State University (CA) University of Tennessee at Chattanooga (TN) South Dakota School of Mines & Technology (SD) Southeast Missouri State University (MO) University of Tennessee at Martin (TN) University of Texas at Dallas, The (TX) Southeastern Louisiana University (LA) University of Texas at San Antonio (TX) Southern Arkansas University (AR) Southern Connecticut State University (CT) University of Wisconsin - Eau Claire (WI) University of Wisconsin - La Crosse (WI) Southern Illinois University at Edwardsville (!L) University of Wisconsin - Oshkosh (WI) Southern Illinois University of Carbondale (IL) Southern Orange State College (OR) University of Wisconsin - Platteville (WI) University of Wisconsin - Stevens Point (WI) Southwest Missouri State University (MO) University of Wisconsin - Stout (WI) Southwest State University (MN) University of Wisconsin - Superior (VI) Southwest Texas State University (TX) University of Wisconsin - Whitewater (WI) Southwestern Oklahoma State University (OK) St. Cloud State University (NN) Valdosta State College (GA) State University of New York at Plattsburgh (NY) Valley City State University (ND) State University of New York College at Brockport (NY) Weber State College (UT) State University of N.w York College at Buffalo (NY) West Georgia College (GA) West Liberty State College (WV) State University of New York College at Cortland (NY) West Texas State University (TX) State University of New York College at Fredonia (NY) State University of New York College at Genesco (NY) West Virginia College of Graduate Studies (WV) Western Carolina University (NC) Stephen F. Austin State University (TX) Western Illinois University (IL) SUNY College of Technology at Utica/Rome (NY) Western Kentucky University (KY) Tennessee Technological University (TN) Western Michigan University (MI) Texas A & I University (TX) Texas A & M University at Galveston (TX) Western Montana College (MT) Western New Mexico University (NM) Towson State University (MD) Western Oregon State College (OR) Trenton State College (NI) Western State College of Colorado (CO) Troy State University (AL) Western Washington University (WA) University of Akron, The (OH) Wichita State University, The (KS) University of Arkansas at Little Rock (AR) William Paterson College (NJ) University of Baltimore (MD) Winthrop College (SC) University of Central Arkansas (AR) Youngstown State University (OH) University of Colorado at Colorado ~ rings(CO)

Total: 202



#### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1982-89

Institutions Participating in Both Studies:

College Misericordia (PA) Adelphi University (NY) College of Great Falls (MT) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Allegheny College (PA) College of Saint Elizabeth (NI) Allentown College of St. Francis de Sales (PA) College of St. Joseph (VT) Alma College (HI) College of Saint Rose, The (NY) Alverno College (WI) College of St. Scholastica (MN) American Technological University (TX) College of the Holy Cross (MA) American University, The (DC) Columbia College (MO) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College (NC) Dominican College of Blavelt (NY) Bethany College (WV) Drake University (IA) Bethel College (KS) Drew University (NJ) Bethel College (MN) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FL) Eckerd College (FL) Biola University (CA) Elmhurst College (IL) Birmingham-Southern College (AL) Elms College (MA) Bloomfield College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (NH) Bryant College (RI) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Catholic University of America, The (DC) Georgetown University (DC) Catholic University of Puerto Rico (PR) Georgian Court College (NJ) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Greensboro College (NC) Central Wesleyan College (SC) Hamilton College (NY) Christian Brothers College (TN) Hamline University (MN) Clarkson University (NY)



# Participating Institutions, continued:

Missouri Baptist College (MO) Hampton University (VA) Moravian College (PA) Hannibal-LaGrange College (MO) Mount Mary College (WI) Hartwick College (NY) Mount Mercy College (IA) Hastings College (NE) Mount St. Mary's College (CA) Heidelberg College (OH) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Illinois Benedictine College (IL) Neumann College (PA) New England College (NH) Illinois Institute of Technology (IL) North Central College (IL) Immaculata College (PA) Noithland College (WI) Incarnate Word College (TK) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) Norwich University (VT) John Carroll University ((OH) Oakwood College (AL) Johns Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Pikeville Coilege (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College (IL) Lebanon Valley College (PA) Quincy College (IL) LeMoyne College (NY) Randolph-Macon College (VA) Lenoir-Rhyne College (NC) Reed College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Rensselaer Polytechnic Institute (NY) Long Island University (NY) Rider College (NJ) Loras College (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Rockford College (IL) Lubbock Christian University (TX) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lynchburg College (VA) Roosevelt University (IL) Lyoming College (PA) Rose-Hulman Institute of Technology (IN) Madonna College (MI) Russell-Sage College (NY) Marist College (NY) Saint Edward's University (TX) Mars Hill College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Saint Vincent College (PA) Marymount Hanhattan College (NY) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) Salve Regina -- The Newport College (RI) McPherson College (KS) Samford University (AL) Mercy College of Detroit (MI) Santa Clara University (CA) Mercyhurst College (PA) School of the Ozarks, The (MO) Meredith College (NC) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Seton Hill (PA) Millsaps College (MS)



# Participating Institutions, continued:

Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilker College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC) Wittenburg University (OH)

Total: 259



# SALARY-TREND STUDY OF FACULTY IN ANTHROPOLOGY

## FOR THE YEARS

## 1985-86 AND 1988-89

By Richard D. Howe and Sandhya Maharaj

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including anthropology. The disciplines were chosen from among those defined by the Higher Education General Information. Study (HEGIS) Taxonomy and by <u>A Classification of Instructional Programs</u> (CIP), 1985. The definition of the discipline/major field of anthropology in the <u>CIP</u> is as follows:

An instructional program that describes the historic and prehistoric origins of man, his physical and cultural development, racial characteristics, social customs, and beliefs.\*

[\*Gerald S. Malitz, A Classification of Instructional Programs (Washington, D.C.: National Center for Education Statistics, [1985], p. 139.--45.02)]

This article presents a summary of the overall average salary increases in the discipline/major field of anthropology from the "baseline year" of



1985-86 to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA'S STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from these same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

In addition to listing the average salaries in anthropology for both state and private participating institutions by rank, including "new assistant professor", and listing the faculty mix percentage (FAC MIX PCT) and the salary factor, comparisons are made between the two studies for each of the two study years (1985-86 and 1988-89) and with the CPI (Consumer Price Index) of changes in cost-of-living.

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Therefore, the CPI was used to yield a more precise representation of "real" salary increases over time.

The salary is based on a nine-or ten-month academic year salary of full time faculty only. It does not include any faculty members teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary is based on the study information with the assumption that all employees were full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.



The "N/IN" means the number of institutions that reported salary data for a given academic rank and discipline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .36 for associate professor of anthropology in the 1985-86 state study means that 36 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 0.94 for assistant professors in the discipline/major field of anthropology in the 1985-86 state study means that their salaries are 6 percent lower than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of anthropology with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions



NEW ASSO ASST ASST PROF PROF **PROF** PROF INSTRUCTOR SALARY NUM N/IN STATE, 1985-86: ANTHROPOLOGY AVERAGE 20794 SALARY: 38529 152 51 30380 125 61 24485 68 39 21986 3 3 32715 348 77 FAC MIX 0.44 0.36 0.20 0.01 0.01 1.00 PCT: SALARY 0.98 0.94 1.06 1.05 FACTOR: 1.01 0.83 ALL MAJOR FIELDS AVERAGE 31074 15884 25911 14019 25065 1932 20777 39ა6 31282 51525 202 SALARY: 38112 17636 FAC MIX PCT: 0.31 0.27 0.04 0.58 1.00 0.34 ANTHROPOLOGY STATE, 1988-89: AVERAGE SALARY: 43898 173 56 33825 116 58 27950 73 39 25148 10 10 26894 6 ó 37282 76 368 FAC MIX PCT: 0.47 0.32 0.20 0.03 0.02 1.00 SALARY FACTOR: 0.93 0.93 0.92 0.86 1.14 1.02 ALL MAJOR FIELDS AVERAGE SALARY: 44577 18904 36431 16110 30416 15286 29332 2573 23527 4252 36562 54552 202 FAC MIX 0.30 0.28 0.05 0.08 PCT: 0.35 1.00 PRIVATE, 1985-86: ANTHROPOLOGY AVERAGE 24656 10 7 SALARY: 42256 47 24 30565 46 29 45 28 24024 18297 2 2 32415 140 49 FAC MTX 0.07 0.32 0.01 PCT: 0.34 0.33 1.00 SALARY FACTOR: 1.11 1.04 1.02 1.03 0.94 1.09 ALL MAJOR FIELDS AVERAGE SALARY: 38230 8391 29339 8352 24113 8321 23430 1204 19473 1985 29765 27049 259 FAC MIX 0.04 PCT: 0.31 0.31 0.31 0.07 1.00 PRIVATE, 1988-89: ANTHROPOLOGY AVERAGE SALARY: 48541 56 27 35608 30 28774 63 36 27140 10 9 22749 12 5 63 36326 194 54 FAC MIX PCT: 0.32 0.32 0.05 0.06 1.00 0.29 SALARY 1.01 0.96 1.00 1.03 FACTOR: 1.08 1.03 ALL MAJOR FIELDS AVERAGE 28554 8980 SALARY: 44926 8877 34585 8852 28166 1388 22636 1918 35099 28627 259 FAC MIX 0.05 0.07 0.31 0.31 0.31 1.00 PCT:



that one might make based on a simple comparison of averages.

RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of anthropology was reported in 77 of 202 state (AASCU) institutions. The average salary of the 348 faculty \$32,715. This average salary was approximately 5 percent (1.05) higher than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 study salary in the above table, discipline/major field of anthropology was reported in 76 of the same 202 state (AASCU) institutions. The average salary of the 368 faculty was \$37,282. This average salary was approximately 2 percent (1.02) higher than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study. The increase in average salaries for all faculty in anthropology after three years in the state institutions studied was 14 (\$37,282 minus \$32,715 equals \$4,567). The CPI of increased percent cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, th refore, in average faculty salaries over the three-year time period is 3.4 percent or an average of 1.1 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 \$31,282 equals \$5,280). minus In comparison the discipline/major field of anthropology (14%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 2.9% (16.9% minus 14% equals 2.9%) more than faculty in the discipline/major field of anthropology.

The reader may note that the faculty mix percentage in anthropology is higher at the professor rank than at the assistant professor rank in both the state studies: 0.44 vs 0.20 (1985-86) and 0.47 vs 0.20 (1988-89), respectively.



The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively. In other words ALL MAJOR FIELDS has a lower percentage of professors and a higher percentage of assistant professors compared to anthropology in both of the state studies.

Finally, the hiring rate of new assistant professors in anthropology was less than for ALL MAJOR FIELDS in the 1984-85 state study, 1.1 percent (4/348) vs. 3.7 percent (1,932/51,525), respectively. Also, the hiring rate of new assistant professors in anthropology in 1988-89 was 2.7 percent (10/368) vs. 4.7 percent (2,573/54,552) in ALL MAJOR FIELDS that same year. In other words the hiring rate of new assistant professors in anthropology was less than for ALL MAJOR FIELDS in the state study of 1985-86 and in the 1988-89 state study.

## RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of anthropology was reported in 49 of the 259 private institutions. The average salary of the 140 faculty was \$32,415. This average salary was approximately 9 percent (1.09) higher than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of anthropology was reported in 54 of the same 259 private institutions. The average salary of the 194 faculty was \$36,326. This average salary was approximately 3 percent (1.03) higher than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private study.



The increase in average salaries for all faculty in anthropology after three years in the private institutions studied was 12.1 percent (\$36,326 minus \$32,415 equals \$3,911). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 1.5 percent or .5 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of anthropology (12.1%), therefore, the faculty salaries in ALL MAJOR FIELDS were 5.8 percent above those faculty salaries in the discipline/major field of anthropology.

In the discipline/major field of anthropology, the reader may note that the faculty mix percentage at the professor rank and at the assistant professor rank varies in the private studies: 0.34 vs. 0.32 (1985-86), respectively; and 0.29 vs. 0.32 (1988-89), respectively. his is slightly different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1987-88), respectively. In other words ALL MAJOR FIELDS has a similar percentage of professors and assistant professors compared to anthropology in both private studies.

Finally, the reader may note that the hiring rate of new assistant professors in anthropology in the private studies was slightly more than the hiring rate in ALL MAJOR FIELDS in 1985-86, 7.1 percent (10/140) vs. 4.5 percent (1,204/27,049), respectively, whereas, in 1988-89 it was less: 5.2 percent (10/194) vs. 4.8 percent (1,388/28,627), respectively.



#### CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/major field of anthropology and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were both conducted for the baseline year and for the trend year—a total of four studies. A total of 1,050 faculty in the discipline/major field of anthropology participated and were included in the overall total of 161,753 faculty in all 45 disciplines/ major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of anthropology is currently (1988-89) some 2 and 3 percent above the overall average faculty salary of ALL MAJOR FIELDS for both the state and private studies, respectively. The average faculty salary for anthropology in the private institutions was I percent less in comparison to that in the state institutions in 1985-86. The average faculty salary in the private institutions is now (1988-89) 2.6 percent less in comparison to that for the state institutions.

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in anthropology, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Anthropology faculty salaries in the state institutions exceeded faculty in ALL MAJOR FIELDS during 1988-89 by 2 percent, whereas



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anthropology faculty salaries in the private institutions exceeded faculty in ALL MAJOR FIELDS by 3.5 percent. Anthropology faculty in the state institutions have a little catching up to do in salary . comparison to their colleagues in the private institutions.

Third, in the discipline/major field of anthropology the assistant professor ranks vary for both the state and private studies. The full professor rank appears to be increasing at a faster rate in the state institutions, compared to the private institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is an icipated that additional salary-trend studies will be effected in anthropology, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Sandhya Maharaj is a research analyst in the Office of Equal Opportunity Programs at Appalachian State University, Boone, North Carolina.

#### APPENDICES:

A - OVERALL LIST OF SELECTED DISCIPLINES, page 10

B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13



## APPENDIX A

## OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIFLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

CHEMISTRY

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION

SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY

TEACHER EPUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

TOTAL: -5



#### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

## Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel. The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) Coilege of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL) Fort Hays State University (KS)

Port Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (CA) Georgia Scuthwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (IA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessie State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State Universit/ (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (IL) Northern State College (SD)



#### Participating Institutions, continued:

Northwest Missouri State University (MO) University of the District of Columbia, The (DC) Oakland University (MI) University of Houston at Clear Lake (TX) Old Dominion University (VA) University of Lowell (MA) Oregon Institute of Technology (OR) University of Maine at Presque Isle (ME) Pan American University (TX) University of Maryland-Baltimore County, The (MD) Peru State College (NB) University of Missouri - St. Louis (MO) Pittsburg State University (XS) University of Montevalle (AL) Plymouth State College (NH) University of Nebraska at Omaha (NE) Purdue University Calumet (IN) University of Nevada at Las Vegas (NV) University of North Carolina at Charlotte (NC) Radford University (VA) University of North Carolina at Greensboro (NC) Ramapo College of New Jersey (NJ) Richard Stockton State College (NJ) University of Northern Colorado (CO) Saginaw Valley State University (MI) University of Northern Iowa (IA) Salem State College (MA) University of Science & Arts of Oklahoma (OK) Salisbury State University (MD) University of South Alabama (AL) University of South Carolina at Spartanburg (SC) Sam Houston State University (TX) San Diego State University (CA) University of South Florida (FL) University of Southern Colorado (CO) Sangamon State University (IL) Savannah State College (GA) University of Southern Indian (IN) Shippensburg University of Pennsylvania (PA) University of Southern Maine (ME) University of Southwestern Louisiana (LA) Sonoma State University (CA) South Dakota School of Mines & Tecanology (SD) University of Tennessee at Chattanooga (TN) University of Tennessee at Martin (TN) Southeast Missouri State University (MO) University of Texas at Dallas, The (TX) Southeastern Louisiana University (LA) University of Texas at San Antonio (TX) Southern Arkansas University (AR) University of Wisconsin - Eau Claire (WI) Southern Connecticut State University (Ci) Southern Illinois University at Edwardsville (IL) University of Wisconsin - La Crosse (WI) Southern Illinois University of Carbondale (IL) University of Wisconsin - Oshkosh (WI) University of Wisconsin - Platteville (WI) Southern Orange State College (OR) Southwest Missouri State University (MO) University of Wisconsin - Stevens Point (WI) Southwest State University (MN) University of Wisconsin - Strut (WI) Southwest Texas State University (TX) University of Wisconsin - Superior (WI) Southwestern Oklahoma State University (OK) University of Wisconsin - Whitewater (WI) St. Cloud State University (MN) Valdosta State College (GA) State University of New York at Plattsburgh (NY) Valley City State University (ND) State University of New York College at Brockport (NY) Weber State College (UT) State University of New York College at Buffalo (NY) West Georgia College (GA) State University of New York College at Cortland (NY) West Liberty State College (WV) State University of New York College at Fradonia (NY) West Texas State University (TX) State University of New York College at Genesco (NY) West Virginia College of Graduate Studies (WV) Stephen F. Austin State University (TX) Western Carolina University (NC) SUNY College of Technology at Utica/Rome (NY) Western Illinois University (IL) Tennessee Technological University (TN) Western Kentucky University (KY) Western Michigan University (MI) Texas A & I University (TX) Texas A & M University at Galveston (TX) Western Montana College (MT) Western New Mexico University (NM) Towson State University (MD) Trenton State College (NJ) Western Oregon State College (OR) Western State College of Colorado (CO) Troy State University (AL) University of Akron, The (OH) Western Washirgton University (WA) Wichita State University, The (KS) University of Arkansas at Little Rock (AR) University of Baltimore (MD) William Paterson College (NJ) Winthrop College (SC) University of Central Arkansas (AR) University of Colorado at Colorado Springs(CO) Youngstown State 'Iniversity (011)

Total: 202



#### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies.

College Misericordia (PA) Adelphi University (NY) College of Great Falls (MT) Agnes Scott College (CA) Albertus Magnus College (CT) College of Mount St. Joseph (OH) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Allegheny College (PA) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (N!) College of St. Joseph (VT) Alma College (MI) College of Saint Rose, The (NY) Alverno College (WI) American Technological University (TX) College of St. Scholastica (MN) College of the Holy Cross (MA) American University, The (DC) Columbia College (MO) Amherst College (HA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbucy College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averatt College (VA) Creighton University (NE) Avila College (HO) D'Youville College (NY) Azusa Pacific University (CA) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (1L) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Doane Coilege (NE) Belmont Abbey College (NC) Dominican College of Blaveit (NY) Bethany College (WV) Drake University (IA) Bethel College (KS) Drew University (NJ) Bethel College (HN) Bethune-Cookman College (FL) Eastern Mennonite College and Seminary (VA) Eckerd College (FL) Biola University (CA) Birmingham-Southern College (AL) Elmhurst College (IL) Elms College (MA) Bloomfield College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (NH) Bryant College (RI) Furman University (SC) Buckmall University (PA) George Fox College (OR) Butler University (IN) Cabrini College (PA) George Washington University, The (DC) Georgetown College (KY) Carlow College (PA) Catholic University of America, The (DC) Georgetown University (DC) Catholic University of Puerto Rico (PR) Georgian Court College (NJ) Gonzaga University (NA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Central Wesleyan College (SC) Greensboro College (NC) Hamilton College (NY) Christian Brothers College (TN) Clarkson University (NY) Hamline University (MN)



## Participating Institutions, continued:

L'ampton University (VA) Missouri Baptist College (MO) Moravian College (PA) Hannibal-LaGrange College (MO) Hount Mary College (WI) Hartwick College (NY) Mount Mercy College (iA) Hastings College (NL) Mount St. Mary's College (CA) Heidelberg College (OH) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Illinois Benedictine College (IL) Neumann College (PA) Illinois Institute of Technology (IL) New England College (NH) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College X) Norwich University (VT) John Carroll University (JH) Oakwood College (AL) Johns Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo Collège (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Pikeville College (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College (IL) Lebanon Valley College (PA) Quincy College (IL) LeNoyne College (NY) Randolph-Macon College (VA) Lenoir-Rhyne College (NC) Reed College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Long Island University (NY) Rensselaer Polytechnic Institute (NY) Rider College (NJ) Loras Co. 'ege (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Lubbock Christian University (TX) Rockford College (IL) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lynchburg College (VA) Roosevelt University (IL) I yoming College (PA) Rose-Hulman Institute of Technology (IN) Madonna College (MI) Russell-Sage College (NY) Marist College (NY) Saint Edward's University (TX) Mars Hill College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Marymount Manhattan College (NY) Saint Vincent College (PA) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) Salve Regina -- The Newport College (RI) McPherson College (KS) Mercy College of Detroit (MI) Samford University (AL) Santa Clara University (CA) Mercyhurst College (PA) School of the Ozarks, The (MO) Meredith College (NC) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Seton Hill (PA) Millsaps College (MS)



## Participating Institutions, continued:

Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC)

Wittenburg University (OH)

Total: 259



# SALARY-TREND STUDY OF FACULTY IN ARCHITECTURE AND ENVIRONMENTAL DESIGN

## FOR THE YEARS

## 1985-86 AND 1988-89

By
Richard D. Howe
and Ming Land

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including architecture and environmental design. The disciplines were chosen from among those def ed by the Higher Education General Information Study (HEGIS) Taxonomy and by A Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of agribusiness and agricultural production in the CIP is as follows:

A summary of groups of instructional programs that describe the methods to create, adapt, alter, preserve, and control man's physical and social surroundings.\*

[\*Gerald S. Malitz, A <u>Classification of Instructional Programs</u> (Washington, D.C.: National Center for Education Statistics, [1985], p. 41.--04)]

This article presents a summary of the overall average salary increases in the discipline/major field of architecture and environmental design from the



"baseline year" of 1985-86 to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA's STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the "baseline year" and the "trend year". Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

This study lists the average salaries in architecture and environmental design for both state and private participating institutions by rank, including "new assistant professor," the faculty mix percentage (FAC MIX PCT) and the salary factor. In addition comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Thus, by comparing changes in faculty salaries with the CPI, a more precise representation of the "real" salary increases is yielded.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. Full-time faculty members are those who teach no less than 51 percent of the time. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary displayed is computed from all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.

The "N/IN" means the number of institutions that reported salary data for a given academic rank and discipline/major field.



The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .34 for associate professor of architecture and environmental design in the 1985-86 state study means that 34 percent of the faculty in that main/discipline field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 1.05 for assistant professors in the discipline/major field of architecture and environmental design in the 1985-86 state study means that their salaries are 5 percent higher than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of architecture and environmental design with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make based on a simple comparison of averages.

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NEW ASS0 ASST ASST PROF PROF TNOTRIICTOR ALL PANKS PROF PROF SALARY NUM N/IN STATE, 1985-86: ARCHITECTURE AND ENVIRONMENTAL DESIGN AVERAGE SALARY: 38831 23 10 32657 33 7 27183 38 26603 20366 2 2 31713 11 96 FAC MIX PCT: 0.24 0.34 0.40 0.04 0.02 1.00 SALARY FACTOR: 1.02 1.05 1.05 1.06 0.98 1.01 ALL MAJOR FIELDS AVERAGE SALARY: 38112 17636 31074 15884 25911 14019 25065 1932 20777 3986 31282 51525 202 FAC MIX PCT: 0.34 0.31 0.27 0.04 0.08 1.00 STATE, 1988-89: ARCHITECTURE AND ENVIRONMENTAL DESIGN AVERAGE SALARY: 44394 24 10 37910 36 11 31084 35 11 31939 5 5 20510 2 97 11 1 36692 FAC MIX PCT: 0.25 0.37 0.36 0.05 0.02 1.00 SALARY FACTOR: 1.00 1.04 1.02 1.09 0.87 1.00 ALL MAJOR F1ELDS AVERAGE SALARY: 44577 18904 36431 16110 30416 15286 29332 2573 23527 +252 36562 54552 202 FAC MIX PCT: 0.35 0.30 0.28 0.05 0.08 1.00 PRIVATE, 1985-86: ARCHITECTURE AND ENVIRONMENTAL DESIGN AVERAGE SALARY: 40995 64 12 30720 68 11 24923 18089 35 12 23156 2 2 32657 176 14 FAC MIX PCT: 0.36 0.39 0.20 0.01 0.05 1.00 SALARY FACTOR: 1.07 1.05 1.03 0.99 0.93 1,10 ALL MAJOR FIELDS AVERAGE SALARY: 38230 8391 29339 8352 24113 8321 23430 1204 19473 1985 29765 27049 259 FAC MIX PCT: 0.31 0.31 0.31 0.04 0.07 1.00 PRIVATE, -1988-89: ARCHITECTURE AND ENVIRONMENTAL DESIGN AVERAGE SALARY: 48451 60 10 36821 29202 58 11 53 12 25951 3 20609 15 3 37094 186 14 FAC MIX PCT: 0.32 0.31 0.28 0.03 0.08 1.00 SALARY FACTOR: 1.08 1.06 1.02 0.92 0.91 1.06 ALL MAJOR FIELDS AVERAGE SALARY: 44926 8877 34585 8852 28554 8980 28166 1388 22636 1918 35099 28627 259 FAC MIX PCT: 0.31 0.31 0.31 0.05 0.07 1.00



## RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of architecture and environmental design was reported in 11 of the 202 state (AASCU) institutions. The average salary of the 96 faculty was \$31,713. This average salary was approximately 1 percent (1.01) higher than average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of architecture and environmental design was reported in 11 of the same 202 state (AASCU) institutions. The average salary of the 97 faculty was \$36,692. This average salary was approximately the same as the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in the liscipline/major field of architecture and environmental design after three years in the state institutions studied was 15.7 percent (\$36,692 minus \$31,713 equals \$4,979). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 5.1 percent or an average of 1.7 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of architecture and environmental design (15.7%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 1.2 percent (16.9% minus 15.7% equals 1.2%) more than faculty in the discipline/major field of architecture and environmental design.



The reader may note that the faculty mix percentage in architecture and environmental design is lower at the professor rank than at the assistant professor rank in both the state studies: 0.24 vs. 0.40 (1985-86) and 0.25 vs. 0.36 (1988-89), respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to architecture and environmental design in both of the state studies.

Finally, the hiring rate of new assistant professors in architecture and environmental design in the state studies was higher than the hiring rate in ALL MAJOR FIELDS in 1985-86, 4.2 percent (4/96) vs. 3.7 percent (1,932/51,525), respectively; and in 1988-89, 5.2 percent (5/97) vs. 4.7 percent (2,573/54,552), respectively.

#### RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of architective and environmental design was reported in 14 of the 259 private institutions. The average salary of the 176 faculty was \$32,657. This average salary was about 10 percent (1.10) higher than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIE DS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of architecture and environmental design was reported in 14 of the same 259 private in titutions. The average salary of the 186 faculty was \$37,094. This average salary was about 6 percent (1.06) higher than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89



private study.

The increase in average salaries for all faculty in architecture and environmental design after three years in the private institutions studied was 13.6 percent (\$37,074 minus \$32,657 equals \$4,437). The CPI of increased cost-of-living between October 1985 and October 1984 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 3 percent or 1 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of architecture and environmental design (13.6%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 4.3 percent (17.9% minus 13.6% equals 4.3%) more than faculty in architecture and environmental design.

In the discipline/major field of architecture and environmental design, the reader may note that the faculty mix percentage at the professor rank is greater than at the assistant professor rank in the private studies: 0.36 vs. 0.20 (1985-86), respectively; and 0.32 vs. 0.28 (1988-89). respectively. This difference is less than in ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1988-89), respectively. In other words ALL MAJOR FIELDS has a lower percertage of professors and a higher percentage of assistant professors in both private studies when compared to architecture and environmental design.

Finally, the reader may note that the hiring rate of new assistant professors in architecture and environmental design in the private studies was lower than the hiring rate in ALL MAJOR FIELDS in 1985-86, 1.1 percent (2/176) vs. 4.5 percent (1204/27,049), respectively; and in 1988-89, 2.7 percent (5/186) vs. 4.8 percent (1,388/28,627), respectively.



#### CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/ major field of architecture and environmental design and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 555 faculty in the discipline/major field of architecture and environmental design participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of architecture and environmental design is currently (1988-89) approximately the same in the state studies in comparison to ALL MAJOR FIELDS, and is 6 percent above the overall average faculty of ALL MAJOR FIELDS in the priv. studies. The average faculty salary for architecture and environmental design in the private institutions was 3 percent above that in the state institutions in 1985-86; and is now (1988-89) 1.1 percent more in comparison to that for the state institutions.

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in architecture and environmental design, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. However, architecture and environmental design faculty in both the state and private institutions lagged behind those of ALL MAJOR FIELDS during this same period.



Third, in the discipline/major field of architecture and environmental design the full professor rank has a greater percentage compared to the assistant professor rank for private studies but just the opposite is the case in the state studies. It seems a smaller percentage of new assistant professors are being hired in the private institutions in comparison to the state institutions

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in architecture and environmental design, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. he is a professor of leadership and higher education, and history at Appalachian State University Boone, North Carolina. Co-author Ming Land is professor in the Department of Technology and Dean of the College of Fine and Applied Arts at Appalachian State University, Boone, North Carolina.

## APPENDICES:

A - OVERALL LIST OF SELECTED DISCIPLINES, page 10

B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13





#### APPENDIX A

## OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

**BUSINESS ECONOMICS** 

PHILOSOPHY AND RELIGION

CHEMISTRY

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION

SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

**HISTORY** 

TOTAL: 45



#### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

## Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blacknills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central Scate University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & H University (FL) Florida Atlantic University (FL) Florida International University (FL)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (CH) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northea ern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (IL) Northern State College (Sb)



Fort Hays State University (KS)

## · Participating Institutions, continued;

University of the District of Columbia, The (DC) Northwest Missouri State University (MC) Oakland University (MI) University of Houston at Clear Lake (TX) Old Dominion University (VA) University of Lowell (MA) Oregon Institute of Technology (OR) University of Maine at Presque Isle (ME) Pan American University (TX) University of Maryland-Baltimore County, The (MD) University of Missouri - St. Louis (MO) Peru State College (NB) Pittsburg State University (KS) University of Montevallo (AL) University of Nebraska at Omaha (NE) Plymouth State College (NH) Purdue University Calumet (IN) University of Nevada at Las Vegas (NV) University of North Carolina at Charlotte (NC) Radiord University (VA) Ramapo College of New Jersey (NJ) University of North Carolina at Greensboro (NC) Richard Stockton State College (NJ) University of Northern Colorado (CO) Saginaw Valley State University (MJ) University of Northern Iowa (IA) University of Science & Arts of Oklahoma (OK) Salem State College (MA) Salisbury State University (MD) University of South Alabama (AL) University of South Carolina at Spartanburg (SC) Sam Houston State University (TX) San Diego State University (CA) University of South Florida (FL) Sangamon State University (IL) University of Southern Colorado (CO) University of Southern Indiana (IN) Savannah State College (GA) Shippensburg University of Pennsylvania (PA) University of Southern Maine (ME) University of Southwestern Louisiana (LA) Sonomu State University (CA) South Dakota School of Mines & Technology (SD) University of Tennessee at Chattanooga (TN) University of Tennessee at Martin (TN) Southeast Missouri State University (MO) Southeastern Louisiana University (LA) University of Texas at Dallas, The (TX) Southern Arkansas University (AR) University of Texas at San Antonio (TX) Southern Connecticut State University (CT) University of Wisconsin - Eau Claire (WI) Southern Illinois University at Edwardsville (IL) University of Wisconsin - La Crosse (WI) Southern Illinois University of Carbondale (IL) University of Wisconsin - Oshkosh (WI) Southern Orange State College (OR) University of Wisconsin - Platteville (WI) Southwest Missouri State University (MO) University of Wisconsin - Stevens Point (WI) University of Wisconsin - Stout (WI) Southwest State University (MN) Southwest Texas State University (TX) University of Wisconsin - Superior (WI) Southwestern Oklahoma State University (OK) University of Wisconsin - Whitewater (WI) Valdosta State College (GA) St. Cloud State University (MN) State University of New York at Plattsburgh (NY) Valley City State University (ND) State University of New York College at Brockport (NY) Weber State College (UT) State University of New York College at Buffalo (NY) West Georgia College (GA) State University of New York College at Cortland (NY) West Liberty State College (WV) State University of New York College at Fredonia (NY) West Texas State University (TX) State University of New York College at Genesco (NY) West Virginia College of Graduate Studies (WV) Stephen F. Austin State University (TX) Western Carolina University (NC) SUNY College of Technology at Utica/Rome (NY) Western Illinois University (IL) Tennessee Technological University (TN) Western Kentucky University (KY) Texas A & I University (TX) Western Michigan University (MI) Texas A & M University at Galveston (TX) Western Montana College (MT) Western New Mexico University (NM) Towson State University (MD) Western Oregon State College (OR) Trenton State College (NJ) Western State College of Colorado (CO) Troy State University (AL) University of Akron, The (OH) Western Washington University (WA) University of Arkansas at Little Rock (AR) Wichita State University, The (KS) University of Baltimore (MD) William Paterson College (NJ) University of Central Arkansas (AR) Winthrop College (SC) University of Colorado at Colorado Springs(CO) Youngstown State University (OH)

Total: 202

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#### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

College Misericordia (PA) Adelphi University (NY) College of Great Falls (MT) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Allegheny College (PA) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (NJ) College of St. Joseph (VT) Alma College (MI) College of Saint Rose, The (NY) Alverno College (WI) American Technological University (TX) College of St. Scholastica (MN) American University, The (DC) College of the Holy Cross (MA) Columbia College (MO) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aguinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornel! College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Baldwin-Wallace College (OH) Defiance College, The (OH) DePaul University (IL) Barnard College (NY) Barry University (FL) DePauw University (JK) Dickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College (NC) Dominican College of Blavelt (NY) Bethany College (WV) Bethel College (KS) Drake University (IA) Drew University (NJ) Bethel College (MN) Bethune-Cookman College (FL) Eastern Mennonite Coilege and Seminary (VA) Biola University (CA) Eckerd College (FL) Birmingham-Southern College (AL) Elmhurst College (IL) Elms College (MA) Bloomfield College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (NH) Bryant College (RI) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) Cabrini College (PA) George Washington University, The (DC) Georgetown College (KY) Carlow College (PA) Georgetown University (DC) Catholic University of America, The (DC) Catholic University of Puerto Rico (PR) Georgian Court College (NJ) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Central Wesleyan College (SC) Greensboro College (NC) Christian Brothers College (TN) Hamilton College (NY) Hamline University (MN) Clarkson University (NY)



## Participating Institutions, continued:

Missouri Baptist College (MO) Hampton University (VA) Moravian College (PA) Hannibal-LaGrange College (MO) Mount Mary College (WI) Hartwick College (NY) Mount Mercy College (IA) Hastings College (NE) Mount St. Mary's College (CA) Heidelberg College (OH) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Neumann College (PA) Illinois Benedictine College (IL) New England College (NH) Illinois Institute of Technology (IL) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MP) Jarvis Christian College (TX) Norwich University (VT) John Carroll University ((OH) Oakwood College (AL) Johns Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Kenyon College (OH) Our Lady of Holy Cross College (LA) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Pikeville College (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College (IL) Lebanon Valley College (PA Quincy College (IL) LeMoyne College (NY) Randolph-Macon College (VA) Lenoir-Rhyne College (NC) Reed College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Rensselaer Polytechnic Institute (NY) Long Island University (NY) Rider College (NJ) Loras College (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Lubbock Christian University (TX) Rockford College (IL) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lynchburg College (VA) Roosevelt University (IL) Lyoming College (PA) Madonna College (MI) Rose-Hulman Institute of Technology (IN) Russell-Sage College (NY) Marist College (NY) Saint Edward's University (TX) Mars Hill College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Marymount Manhattan College (NY) Saint Vincent College (PA) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) Salve Regina -- The Newport College (RI) McPherson Coilege (KS) Samford University (AL) Mercy College of Detroit (MI) Santa Clara University (CA) Mercyhurst College (PA) School of the Gzarks, The (MO) Meredith College (NC) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Millsaps College (MS) Seton Hill (PA)



## Participating Institutions, continued:

Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Martburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (GR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC) Wittenburg University (OH)

Total: <u>259</u>



## SALARY-TREND STUDY OF FACULTY IN AREA AND ETHNIC STUDIES

## FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Willie Fleming

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including area and ethnic studies. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by A Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of area and ethnic studies in the CIP is as follows:

A summary of groups of instructional programs that describe the history, society, politics, culture, and economics of either a particular geographic region or a particular subset of the population sharing common racial characteristics or common traits and customs.\*

[\*Gerald S. Malitz, A <u>Classification of Instructional Programs</u> (Washington, D.C.: National Center for Education Statistics, [1985], p. 43.--05.)]

This article presents a summary of the overall average salary increases in the discipline/major Tield of area and ethnic studies from the "baseline year"



of 1985-86 to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA's STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

This study lists the average salaries of area and ethnic studies for both state and private participating institutions by rank, including "new assistant professor," the faculty mix percentage (FAC MIC PCT) and the salary factor. In addition comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Therefore, the CPI was used to yield a more precise representation of "real" salary increases over time.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. It does not include any faculty members teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary is based on the study information with the assumption that all employees were full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.

The "N/IN" means the number of institutions that reported salary data for a



given academic rank and discipline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .46 for associate professor of area and ethnic studies in the 1985-86 state study means that 46 percent of the faculty in that discipline/ major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 1.04 for associate professors in the discipline/major field of area and ethnic studies in the 1985-86 state study means that their salaries are 4 percent higher than the average of all associate professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new haring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of area and ethnic studies with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make based on a simple comparison of averages.



NEW ASST ASS0 ASST PROF PROF PROF PROF INSTRUCTOR ALL RANKS SALARY NUM N/IN STATE, 1985-86: AREA AND ETHNIC STUDIES AVERAGE 21000 24000 20 SALARY: 41576 33 10 32462 59 16 26533 34 13 2 1 1 33176 127 FAC MIX 0.27 0.02 0.01 1.00 PCT: 0.26 0.46 SALARY 1.02 0.84 1.06 FACTOR: 1.09 1.04 1.16 ALL MAJOR FIELDS AVERAGE 31282 51525 202 25065 20777 3986 SALARY: 38112 17636 31074 15884 25911 14019 1932 FAC MIX 0.27 0.04 0.08 1.00 0.31 0.34 PCT: AREA AND ETHNIC STUDIES STATE, 1988-89: AVERAGE 30829 3 3 21619 3 3 39773 135 23 SALARY: 47859 38500 50 18 32 15 29053 50 16 FAC MIX 0.37 0.24 0.02 0.02 1.00 0.37 PCT: SALARY FACTOR: 1.07 1.06 1.01 0.99 0.92 1.09 ALL MAJOR FIELDS AVERAGE 30416 15286 SALARY: 44577 18904 36431 16110 29332 2573 23527 4252 36562 54552 202 FAC MIX 0.30 0.28 0.05 0.08 1.00 PCT: 0.35 AREA AND ETHNIC STUDIES PRIVATE, 1985-86: AVERAGE 32671 37 13 25860 24 Я 22000 1 1 NONE 34892 94 16 SALARY: 43953 33 11 FAC MIX 0.35 0.39 0.26 0.01 1.00 PCT: SALARY FACTOR: 1.15 1.11 1.07 0.94 1.17 ALL MAJOR FIELDS AVERAGE 24113 8321 23430 19473 1985 SALARY: 38230 8391 29339 8352 1204 29765 27049 259 FAC MIX 0.31 0.31 0.04 0.07 1.00 0.31 PCT: AREA AND ETHNIC STUDIES PRIVATE, 1988-89: AVERAGE SALARY: 49247 39122 23 7 26228 12 3 NONE 23117 2 40192 25 11 1 62 14 FAC MIX 0,37 0.19 0.03 1.00 PCT: 0.40 SALARY ..92 1.02 1.15 FACTOR: 1.10 1.13 ALL MAJOR FIELDS AVERAGE SALARY: 44926 8877 34585 8852 28554 8980 28106 1388 22636 1918 35099 28627 259 FAC MIX 0.31 0.05 0.07 1.00 PCI: 0.31 0.31



## RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of area and ethnic studies was reported in 20 of the 202 state (AASCU) institutions. The average salary of the 127 faculty was \$33,176. This average salary was approximately 6 percent higher (1.06) than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of area and ethnic studies was reported in 23 of the same 202 state (AASCU) institutions. The average salary of the 135 faculty was \$39,773. This average salary was approximately 9 percent higher (1.09) than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in the discipline/major field of area and ethnic studies after three years in the state institutions studied was 19.9 percent (\$39,773 minus \$33,176 equals \$6,597). The CPI or increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 9.3 percent or an average of 3.1 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of area and ethnic studies (19.9%), therefore, the faculty in ALL MATOR FIELDS increased their salaries by 3 percent (19.9% minus 16.9% equals 3.0%) less than faculty in the discipline/major field of area and ethnic studies.

The reader may note that the faculty mix percentage in area and ethnic



studies is lower at the professor rank than at the assistant professor rank in the 1985-86 study: 0.26 vs 0.27, but slightly higher in 1988-89, 0.37 vs 0.24, respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively.

Finally, the hiring rate of new assistant professors in area and ethnic studies in the state studies was lower than the hiring rate for ALL MAJOR FIELDS both in 1985-86, 1.6 percent (2/127) vs. 3.7 percent (1,932/51,525), respectively; and lower ir 1988-89, 2.2 percent (3/135) vs. 4.7 percent (2,573/54,552), respectively.

## RESU'TS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-36 salary study in the above table, the reader may note that the discipline/major field of area and ethnic studies was reported in 16 of the 259 private institutions. The average salary of the 94 faculty was \$34,892. This average salary was 17 percent higher (1.17) than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of area and ethnic studies was reported in 14 of the same 259 private institutions. The average salary of the 62 faculty was \$40,192. This average salary was about 15 percent higher (1.15) than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private study.

The increas in average salaries for all faculty in area and ethnic studies after three ye is in the private institutions studied was 15.2 percent (\$40,192 minus \$34,892 equals \$5,300). The CPI of increased cost-of-living between



October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 4.6 percent or 1.5 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of area and ethnic studies (15.2%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 2.7 percent (17.9% minus 15.2% equals 2.7%) more than faculty in area and ethnic studies.

In the discipline/major field of area and ethnic studies, the reader may note that the faculty mix percentage varies at the professor rank in comparison to the assistant professor rank in both studies: 0.35 vs. 0.26 (1985-86), respectively; and 0.40 vs. 0.19, (1988-89), respectively. The professor rank is identical to the assistant professor rank for ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1988-89), respectively.

Finally, the reader may note that only 1 percent were hired in area and ethnic studies in the private study 1985-86 and <u>no</u> new assistant professors were hired in the 1988-89 study. In other words the hiring rate of new assistant professors in area and ethnic studies was much less for both of the private studies than the hiring rate of new assistant professors in ALI, MAJOR FIELDS 4.5 (1,204/27,049) for 1985-86 and 4.8 percent (1,388/28,627) for 1988-89.

#### CONCLUDING REMARKS

This article presented salary-trend information on the scademic discipline/major field of area and ethnic studies and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 418 faculty in the discipline/major field of area and ethnic studies participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of area and ethnic studies is currently (1988-89) some 9 and 15 percent above the overall average faculty salaries of ALL MAJOR FIELDS in both the state and private studies, respectively. The average faculty salary for area and ethnic studies in the private institutions was over 5 percent greater compared to that in the state institutions in 1985-86. The overall salary average for area and ethnic studies faculty in all the private institutions is now (1988-89) 1 percent more in comparison to that for all the state institutions.

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in area and ethnic studies, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Area and ethnic studies faculty salaries in both the state and private institutions exceeded faculty in ALL MAJOR FIELDS during this same



period. Area and ethnic studies faculty, however, in the state institutions have a little catching up to do in salary in comparison to their colleagues in the private institutions.

Third, the full professor rank appears to be increasing about equally in the private institutions and the state institutions. A smaller percentage of new assistant professors is being hired in the private institutions in comparison to the state institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in area and ethnic studies, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUFA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Willie Fleming is Director of Multi-Cultural Programs at Appalachian State University, Boone, North Carolina.

#### APPENDICES:



A - OVERALL LIST OF SELECTED DISCIPLINES, page 10

B - LIST OF STATE Participating Institutions, page !1

C - LIST OF PRIVATE Participating Institutions, page 13

## APPENDIX A

#### OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION LETTERS

ANTHROPOLOGY LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN LIFE SCIENCES

AREA AND ETHNIC STUDIES MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT MUSIC

BUSINESS AND MANAGEMENT NURSING

BUSINESS ECONOMICS PHILOSOPHY AND RELIGION

CHEMISTRY PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES PHYSICAL SCIENCES

COMMUNICATIONS PHYSICS

COMPUTER & INFORMATION SCIENCES POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION PSYCHOLOCY

DRAMATIC ARTS READING EDUCATION

EDUCATION SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION SOCIAL SCIENCES

ENGINEERING SOCIOLOGY

FINE ARTS SPECIAL EDUCATION

FOREIGN LANGUAGES STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY
TFACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

**TOTAL: 45** 



### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

### Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport Coilege (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (0H) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (FA) East Texas State University (TX) Fast Texas State University at Texarkana (TX) Fastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL)

Florida International University (FL)

Fort Hays State University (KS)

Fort lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Mumacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (HI) l⊿nder Coliege (SC) Lewis Clark State College (ID) Livingston University (AI) Longwood College (VA) Louisiana State University in Shreveport(IA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (RM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louistana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (IL) Northern State College (SD)



Northwest Missouri State University (MO) Oakland University (MI) Old Dominion University (VA) Oregon Institute of Technology (OR) Pan American University (TX) Peru State College (NB) Pittsburg State University (KS) Plymouth State College (NH) Purdue University Calumet (IN) Radford University (VA) Ramapo College of New Jersey (NJ) Richard Stockton State College (NJ) Saginaw Valley State University (MI) Salem State College (MA) Salisbury State University (MD) Sam Houston State University (TX) San Diego State University (CA) Sangamon State University (IL) Savannah State College (GA) Shippensburg University of Pennsylvania (PA) Sonoma State University (CA) South Dakota School of Mines & Technology (SD) Southeast Missouri State University (MO) Southeastern Louisiana University (IA) Southern Arkansas University (AR) Southern Connecticut State University (CT) Southern Illinois Uni rsity at Edwardsville (IL) Southern Illinois University of Carbondale (IL) Southern Orange State College (OR) Southwest Missouri State University (MO) Southwest State University (MN) Southwest Texas State University (TX) Southwestern Oklahoma State University (OK) St. Cloud State University (MN) State University of New York at Plattsburgh (NY) State University of New York College at Brockport (NY) State University of New York College at Buffalo (NY) State University of New York College at Cortland (NY) State University of New York College at Fredonia (NY) State University of New York College at Genesco (NY) Stephen F. Austin State Unive sity (TX) SUNY College of Technology at Utica/Rome (NY) Tennessee Technological University (TN) Texas A & I University (TX) Texas A & M University at Galveston (TX) Towson State University (MD) Trenton State College (NJ) Troy State University (AL) University of Akron, The (OH) University of Arkansas at Little Rock (AR) University of Baltimore (MD) University of Central Arkansas (AR) University of Colorado at Colorado Springs(CO)

University of the District of Columbia, The (IC) University of Houston at Clear Lake (TX) University of Lowell (MA) University of Maine at Presque Isle (ME) University of Maryland-Baitimore County, The (MD) University of Missouri - St. Louis (MO) University of Montevallo (AL) University of Nebraska at Omaha (NE) University of Nevada at Las Vegas (NV) University of North Carolina at Charlotte (NC) University of North Carolina at Greensboro (NC) University of Northern Colorado (CO) University of Northern Iowa (IA) University of Science & Arts of Oklahoma (OK) University of South Alabama (AL) University of South Carolina at Spartanburg (SC) University of South Florida (FL) University of Southern Colorado (CO) University of Southern Indiana (IN) University of Southern Maine (ME) University of Southwestern Louisiana (LA) University of Tennessee at Chattanooga (TN) University of Tennessee at Martin (TN) University of Texas at Dallas, The (TX) University of Texas at San Antonio (TX) University of Wisconsin - Eau Claire (WI) University of Wisconsin - La Crosse (WI) University of Wisconsin - Oshkosh (WI) University of Wisconsin - Platteville (WI) University of Wisconsin - Stevens Point (WI) University of Wisconsin - Stout (W1) University of Wisconsin - Superior (WI) University of Wisconsin - Whitewater (WI) Valdosta State College (OA) Valley City State University (ND) Weber State Collige (UT) West Georgia College (GA) West Liberty State College (WV) West Texas State University (TX) West Virginia Co lege of Graduate Studies (WV) Western Carolina University (NC) Western Illinois University (IL) Western Kentucky University (KY) Western Michigan University (HI) Western Montana College (MT) Western New Mexico University (NM) Western Oregon State College (OR) Western State College of Colorado (CO) Western Washington University (WA) Wichita State University, The (KS) William Paterson College (NI) Winthrop College (SC) Youngstown State University (OH)

Total: 202

### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

College Misericordia (PA) Adelphi University (NY) College of Great Falls (MT) Agnes Scott College (GA) College of Mount St. Joser, (OH) Albertus Magnus College (CT) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (AN) Allegheny College (PA) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (NI) College of St. Joseph (VT) Alma College (MI) College of Saint Rose, The (NY) Alverno College (WI) College of St. Scholastica (MN) American Technological University (TX) American University, The (DC) College of the Holy Cross (MA) Columbia College (MO) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College (NC) Dominican College of Blavelt (NY) Bethany College (WV) Drake University (IA) Bethel College (KS) Drew University (NJ) Bethel College (MN) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FL) Biola University (CA) Eckerd College (FL) Elmhurst College (IL) Birmingham-Southern College (AL) Elms College (MA) Bloomfield College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Harshall College (PA) Bridgewater College (VA) Franklin Pierce College (..d) Bryant College (RI) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Catholic University of America, The (DC) Georgetown University (DC) Georgian Court College (NJ) Catholic University of Puerto Rico (PR) Cedar Crest College (PA) Gonzaga University (WA) Grand View College (IA) Central College (IA) Greensboro College (NC) Central Wesleyan College (SC) Christian Brothers College (TN) Hamilton College (NY) Hamline University (MN) Clarkson University (NY)



Hampton University (VA) Missouri Baptist College (MO) Moravian College (PA) Hannibal-LaGrange College (MO) Mount Mary College (WI) Hartwick College (NY) Mount Mercy College (IA) Hastings College (NE) Mount St. Mary's College (CA) Heidelberg College (OH) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Illinois Benedictine College (IL) Neumann College (PA) Illinois Institute of Technology (IL) New England College (NH) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) John Carroll University ((OH) Norwich University (VT) Johns Hopkins University (MD) Oakwood College (AL) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRocha College (PA) Pikeville College (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College (IL) Lebanon Valley College (PA) Quincy College (IL) LeMoyne College (NY) Randolph-Macon College (VA) Lenoir-Rhyne College (NC) Reed College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Long Island University (NY) Rensselaer Polytechnic Institute (NY) Rider College (NJ) Loras College (IA) Loyola College in Maryland (MD) Rochester Institute of Technology (NY) Lubbock Christian University (TX) Rockford College (IL) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lynchburg College (VA) Roosevelt University (IL) Lyoming College (PA) Rose-Hulman Institute of Technology (IN) Madonna Coilege (MI) Russell-Sage College (NY) Marist Col 3e (NY) Saine Edward's University (TX) Mars Hill College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Marymount Manhattan College (NY) Saint Vincent College (PA) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) Salve Regina -- The Newport College (RI) McPherson College (KS) Samford University (AL) Mercy College of Detroit (MI) Santa Clara University (CA) Mercyhurst College (PA) School of the Ozarks, The (MO) Meredith College (NC) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Seton Hill (PA) Millsaps College (MS)



Siena College (NY) Sien 2 Heights College (MI) Simpson College (1A) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Westerr Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC)

Wittenburg University (OH)

Total: 259



SALARY-TREND STUDY OF FACULTY IN AUDIOLOGY AND SPEECH PATHOLOGY

FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Mary Ruth Sizer

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including audiology and speech pathology. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by  $\underline{A}$  Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of audiology and speech pathology in the  $\underline{CIP}$  is as follows:

An instructional program that describes the nature and treatment of hearing and speech disorders, including the principles and techniques of providing therapy that restores or partially restores normal functioning.\*

[\*Gerald S. Malitz, A <u>Classification of Instructional Programs</u> (Washington, D.C.: National Center for Education Statistics, [1985], p.96.--18.01)]

This article presents a summary of the overall average salary increases in the



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discipline/major field of audiology and speech pathology from the "baseline year" of 1985-86 to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA's STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

This study lists the average salaries of faculty in audiology and speech pathology for both state and private participating institutions by rank, including "new assistant professors," the faculty mix percentage (FAC MIX PCT) and the salary factor. In addition comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day iving. In examining trends in faculty salary it is important to consider any changes in the economy. Therefore, the CPI was used to yield a more precise representation of "real" salary increases over time.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. It does not include any faculty members teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary is based on the study information with the assumption that all employees were full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.



The "N/IN" means the number of institutions that reported salary data for a given academic rank and discipline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .28 for associate professor of audiology and speech pathology in the 1985-86 state study means that 28 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 0.96 for assistant professors in the discipline/major field of audiology and speech pathology in the 1985-86 state study means that their salaries are 4 percent lower than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of audiology and speech pathology with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen

NEW ASSO ASST ASST **PROF** PROF **PPOF PROF** INSTRUCTOR ALL RANKS SALARY NUM N/IN STATE, 1985-86: AUDIOLOGY AND SPEECH PATHOLOGY AVERAGE SALARY: 38687 30810 129 147 51 5.5 24998 142 57 24186 22 70 19 21052 45 28 30580 463 FAC MIX PCT: 0.32 0.28 0.31 0.05 0.10 1.00 SALARY 0.99 0.96 FACTOR: 1.02 0.96 1.01 0.98 ALL MAJOR FIELDS AVERAGE SALARY: 38112 17636 31074 15884 25911 14019 25065 1932 20777 3986 31282 51525 202 FAC MIX PCT: 0.34 0.31 0.27 0.04 0.08 1.00 STATE, 1988-89: AUDIOLOGY AND SPEECH PATHOLOGY AVERAGE SALARY: 44505 131 49 36107 123 50 28079 121 48 26922 22 18 23134 38 22 35224 413 65 FAC MIX PCI: 0.32 0.30 0.29 0.05 0.09 1.00 SALARY 0.99 FACTOR: 1.00 0.92 0.92 0.98 0.96 ALL MAJOR FIELDS AVERAGE SALARY: 44577 18904 36431 16110 29332 25/3 30416 15285 23527 4252 36562 54552 202 FAC MIX PCT: 0.35 0.30 0.28 0.05 0.08 1.00 PRIVATE, 1985-86: AUDIOLOGY AND SPEECH PATHOLOGY AVERAGE SALARY: 40737 20 11 30729 25 11 25227 24 14 26600 5 20072 5 30929 74 18 FAC MIX PCT: 0.27 0.34 0.32 0.07 0.07 1.00 SALARY FACTOR: 1.07 1.05 1.05 1.14 1.03 1.04 ALL MAJOR FIELDS AVERAGE SALARY: 38230 8391 29339 8352 24113 8321 23430 1204 19473 1985 29765 27049 259 FAC MIX PCT: 0.31 0.31 0.31 0.04 0.07 1.00 PRIVATE, 1988-89; AUDIOLOGY AND SPEECH PATHOLOGY AVERAGE SALARY: 48068 18 10 35703 20 11 29697 27000 5 5 29 14 22482 35279 73 19 FAC MIX PCT: 0.25 0.27 0.40 0.07 0.08 1.00 SALARY FACTOR: ±.07 1.03 0.96 0.99 1.04 1.01 ALL MAJOR FIELDS AVERAGE SALARY: 44926 8877 34585 8852 28554 8980 28156 1388 35099 28627 259 22636 1918 FAC MIX PCT: 0.31 0.31 0.31 0.05 0.07 1.00



the reliability and validity of any conclusions that one might make based on a simple comparison of averages.

RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of audiology and speech pathology was reported in 70 of the 202 state (AASCU) institutions. The average salary of the 463 faculty was \$30,580. This average salary was 2 percent lower (0.98) than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major fiel! of audiology and speech pathology was reported in 65 of the same 202 state (AASCU) institutions. The average salary of the 413 faculty was \$35,224. This average salary was 4 percent lower (0.96) than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in the discipline/major field of audiology and speech pathology after three years in the state institutions studied was 15.2 percent (\$35,224 minus \$30,580 equals \$4,64). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 4.6 percent or an average of 1.5 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of audiology and speech pathology (15.2%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries 1.7 percent more.

The reader may note that the faculty mix percentage in audiology and speech



pathology is slightly higher at the professor rank than at the assistant professor rank in both the 1985-86 state study: (0.32 vs 0.31), and (0.32 vs 0.29) in the 1988-89 state study. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies is as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively.

Finally, the hiring rate of ner assistant professors in audiology and sprech pathology in the state studies exceeded the hiring rate in ALL MAJOR FIELDS in both 1985-86, 4.8 percent (22/463) vs. 3.7 percent (1,932/51,525), and in 1988-89: it was slightly lower, 5.3 percent (22/413) vs. 4.7 percent (2,573/54, 2), respectively.

RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of audiology and speech pathology was reported in 18 of the 259 private institutions. The average salary of the 74 faculty was \$30,929. This average salary was 4 percent higher (1.04) than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of audiology and speech pathology was reported in 19 of the same 259 private institutions. The average salary of the 73 faculty was \$35,279. This average salary was about 1 percent (1.01) higher than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private study.

The increase in average salaries for all faculty in audiology and speech pathology after three years in the private institutions studied was 14.1 percent (\$35,279 minus \$30,929 equals \$4,350). The CPI of increased cost-



of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 3.5 percent or 1.2 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of audiology and speech pathology (14.1%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries slightly more than the faculty in audiology and speech pathology.

In the discipline/major field of audiology and speech pathology, the reader may note that the faculty mix percentage at the professor rank is lower than at the assistant professor rank in the 1985-86 private study: 0.27 vs. 0.32 (1985-86), and is much lower than at the assistant professor rank in the 1988-89 private study: 0.25 vs. 0.40. This is quite different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1988-89), respectively. In other words ALL MAJOR FIELDS had a higher percentage of professors and a lower percentage of assistant professors in both the 1985-86 and the 1988-89 private studies when compared to audiology and speech pathology.

Finally, the reader may note that the hiring rate of new assistant professors in audiology and speech pathology in the private studies was greater than the hiring rate in ALL MAJOR FIELDS both in 1985-86, 6.7 percent (5/74) vs. 4.5 percent (1,204/27,049) respectively; and in 1988-89, 6.8 percent (5/73) vs. 4.8 percent (1,388/28,627), respectively. In other words the hiring rate in the discipline/major field of audiology and speech pathology exceeds ALL MAJOR FIELDS in both the private studies of 1985-86 and 1988-89.



#### CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/major field of audiology and speech pathology and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 1,023 faculty in the discipline/major field of audiology and speech pathology participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of audiology and speech pathology is currently (1988-89) some 4 percent below the overall average faculty salaries of ALL MAJOR FIELDS in the state study, and is 1 percent above ALL MAJOR FIELDS in the private study. The average faculty salary for audiology and speech pathology in the state institutions was 1.1 percent less than that in the private institutions in 1985-86. The overall salary average in the private institutions is now (1988-89), however, almost equal to that of the state institutions: \$35,279 vs. \$35,224, respectively.

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in audiology and speech pathology, in both the state and private institutions, received overall salary increases for three years below the cost-of-living. Audiology and speech pathology faculty salaries in the state institutions lagged behind faculty salaries in ALL MAJOR FIELDS during this same



period and faculty in the private institutions were barely ahead. Audiology and speech pathology faculty in the state institutions have some catching up to do in salary in comparison to their colleagues ALL MAJOR FIELDS.

Third, in the discipline/major field of audiology and speech pathology the assistant professor rank has a much greater percentage (0.4) compared to the full professor rank (0.25) in the 1988-89 study. However, it seems an equal percentage of new assistant professors are being hired in the private institutions both in 1985-86 and in 1988-89: (0.05%,0.05% and 0.07%, 0.07%) respectively.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in audiology and speech pathology, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone. North Carolina. Co-author Mary Ruth Sizer is a clinical audiologist in the Department of Language, Reading and Exceptionalities at Appalachian State University, Boone, North Carolina.

### APPENDICES:



A - OVERALL LIST OF SELECTED DISCIPLINES, page 10

B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13

### APPENDIX A

# OVERALL LIST OF SELECTED JISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

CHEMISTRY

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION

SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

TOTAL: 45



### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

## Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TA) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, Ine Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL)

Fort Hays State University (KS)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg Stace University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgic Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (IA) No th Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Porthern Arizona University (AZ) Northern Illinois University (IL) Northern State College (SD)



Northwest Missouri State University (MO) University of the District of Columbia, The (DC) University of Houston at Clear Lake (TX) Oakland University (MI) University of Lowell (MA) Old Dominion University (VA) Oregon Institute of Technology (OR) University of Maine at Presque Isle (ME) University of Maryland-Baltimore County, The (MD) Pan American University (TX) University of Missouri - St. Louis (MO) Peru State College (NB) University of Montevallo (AL) Pittsburg State University (KS) University of Nebraska at Omaha (NE) Plymouth State College (NH) University of Nevada at Las Vegas (NV) Purdue University Calumet (IN) University of North Carolina at Charlotte (NC) Radford University (VA) Ramapo College of New Jersey (NJ) University of North Carolina at Greensboro (NC) University of Northern Colorado (CO) Richard Stockton State College (NJ) University of Northern Iowa (IA) Saginaw Valley State University (MI) University of Science & Arts of Oklahoma (OK) Salem State College (MA) University of South Alabama (AL) Salisbury State University (MD) University of South Carolina at Spartanburg (SC) Sam Houston State University (TX) University of South Florida (FL) San Diego Stace University (CA) University of Southern Colorado (CO) Sangamon State University (IL) University of Southern Indiana (IN) Savannah State College (GA) University of Southern Maine (ME) Shippensburg University of Pennsylvania (PA) University of Southwestern Louisiana (LA) Sonoma State University (CA) South Dakota School of Mines & Technology (SD) University of Tennessee at Chattanooga (TN) Southeast Missouri State University (MO) University of Tennessee at Martin (TN) University of Texas at Dallas, The (TX) Southeastern Louisians University (LA) University of Texas at San Antonio (TX) Southern Arkansas University (AR) University of Wisconsin - Eau Claire (WI) Southern Connecticut State University (CT) Southern Illinois University at Edwardsville (IL) University of Wisconsin - La Crosse (WI) University of Wisconsin - Oshkosh (WI) Southern Illinois University of Carbondale (IL) University of Wisconsin - Platteville (WI) Southern Orange State College (OR) University of Wisconsin - Stevens Point (WI) Southwest Missouri State University (MO) University of Wisconsin - Stout (W1) Southwest State University (MN) Southwest Texas State University (TX) University of Wisconsin - Superior (WI) University of Wisconsin - Whitewater (WI) Southwestern Oklahoma State University (OK) Valdosta State College (GA) St. Cloud State University (MN) State University of New York at Plattsburgh (NY) Valley City State University (ND) State University of New York College at Brockport (NY) Weber State College (UT) State University of New York College at Buffalo (NY) West Georgia College (GA) State University of New York College at Cortland (NY) West Liberty State College (WV) State University of New York College at Fredonia (NY) West Texas State University (TX) West Virginia College of Graduate Studies (WV) State University of New York College at Genesco (NY) Stephen F. Austin State University (TX) Western Carolina University (NC) SUNY College of Technology at Utica/Rome (NY) Western Illinois University (IL) Western Kentucky University (KY) Tennessee Technological University (TN) Western Michigan University (MI) Texas A & I University (TX) Texas A & M University at Galveston (TX) Western Montana College (MT) Western New Mexico University (NM) Towson State University (MD) Western Oregon State College (OR) Trenton State College (NJ) Western State College of Colorado (CO) Troy State University (AL) Western Washington University (WA) University of Akron, The (OH) Wichita State University, The (KS) University of Arkansas at Little Rock (AR) William Paterson College (NJ) University of Baltimore (MD) Winthrop College (SC) University of Central Arkansas (AR) University of Colorado at Colorado Springs(CO) Youngstown State University (OH)

Total: 202



### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

## Institutions Participating in Both Studies:

College Misericordia (PA) Adelphi University (NY) College of Great Falls (MT) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Allegheny College (PA) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (NJ) College of St. Joseph (VT) Alma College (MI) College of Saint Rose, The (NY) Alverno College (W1) College of St. Scholastica (MN) American Technological University (TX) College of the Holy Cross (MA) American University, The (DC) Columbia College (MO) Amherst College (MA) Concordia College (MI) Anna Haria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Coverant College (TN) Averett College (VA) Creignton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College (NC) Dominican College of Blavelt (NY) Bethany College (WV) Drake University (IA) Bether College (KS) Drew University (NJ) Bethel College (MN) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FL) Eckerd College (FL) Biola University (CA) Elmhurst College (IL) Birmingham-Southern College (AL) Elms College (MA) Bloomfield College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (NH) Bryant College (RI) Furman University (SC) Bucknall University (FA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Catholic University of America, The (DC) Georgetown University (DC) Georgian Court Co.lege (NJ) Catholic University of Puerto Rico (PR) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Greensboro College (NC) Central Wesleyan College (SC) Hamilton Col je (NY) Christian Brothers College (TN) Hamline University (MN) Clarkson University (NY)



Hampton University (VA) Missouri Baptist College (MC) Hannibal-LaGrange College (MO) Moravian College (PA) Hartwick College (NY) Mount Mary College (WI) Mount Mercy College (IA) Hastings College (NE) Heidelberg College (OH) Mount St. Mary's College (CA) Mount Vernon College (DC) Holy Family College (PA) Houghton College (NY) Mount Vernon Nazarene College (OH) Muskingum College (OH) Howard University (DC) Huron College (SD) Nazareth College (MI) Illinois Benedictine College (IL) Neumann College (PA) Illinois Institute of Technology (IL) New England College (NH) Immaculata College (PA) North Central College (IL) Incarnate Word College (TX) Northland Sollege (WI) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) Norwich University (VT) John Carroll University ((OH) Oakwood College (AL) Johns Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Kalamazoo College (MI) Ottawa University (KS) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Lafayette College (PA) Pikeville College (KY) Presbyterian College (SC) Lakeland College (WI) Lancaster Bible College (PA) Presbyterian School of Christian Education (VA) Principia College (IL) Lebanon Valley College (PA) LeMoyne College (NY) Quincy College (IL) Randolph-Macon College (VA) Lenoir-Rhyne College (NC) Lewis & Clark College (OR) Reed College (OR) Regis College (CO) Limestone College (SC) Linfield College (OR) Regis College (MA) Long Island University (NY) Rensselaer Polytechnic Institute (NY) Rider College (NJ) Loras College (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Rockford College (IL) Lubbock Christian University (TX) Luther College (IA) Rockhurst College (MO) Lynchburg College (VA) Rocky Mountain College (MT) Roosevelt University (IL) Lyoming College (PA) Rose-Hulman Institute of Technology (IN) Madonna College (MI, Russell-Sage College (NY) Marist College (NY) Mars Hill College (NC) Saint Edward's University (TX) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Saint Vincent College (PA) Marymount Manhattan College (NY) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) McPherson College (KS) Salve Regina -- The Newport College (R1) Mercy College of Detroit (MI) Samford University (AL) Mercyhurst College (PA) Santa Clara University (CA) Meredith College (NC) School of the Ozarks, The (MO) Seartle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Seton Hill (PA) Millsaps College (MS)



Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (Th) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (1N) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (Oii) University of Patroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Haria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar Coilege (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilker College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC) Wittenburg University (OH)

Total: 259



# SALARY-TREND STUDY OF FACULTY IN BUSINESS ADMINISTRATION AND MANAGEMENT FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Sandhya Maharaj

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including business administration and management. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by <u>A Classification of Instructional Programs (CIP)</u>, 1985. The definition of the discipline/major field of business administration and management in the <u>CIP</u> is as follows:

An instructional program that generally describes the planning, organizing and controlling of a business, including organizational and human aspects, with emphasis on various theories of management, the knowledge and understanding necessary for managing people and functions, and decision making.\*

[\*Gerald S. Malitz, A Classification of Instructional Programs (Washington, D.C.: National Center for Education Statistics, [1985] p. 45.--06.04)]

This article presents a summary of the overall average salary increases in

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the discipline/major field of business administration and management from the "baseline year" of 1985-86 to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA's STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

This study lists the average salaries of faculty in business administration and management for both state and private participating institutions by rank including "new assistant professor," the faculty mix percentage (FAC MIX PCT) and the salary factor. In addition, comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Therefore, the ( I was used to yield a more precise representation of "real" salary increases over time.

The salary is based on a nine-or ten-month academic year salary of full-time faculty only. It does not include any faculty members teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary is based on the study information with the assumption that all employees were full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.



The "N/IN" means the number of institutions that reported salary data for a given academic rank and discipline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .32 for associate professor of business administration and management in the 1985-86 state study means that 32 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 1.15 for assistant professors in the discipline/major field of business administration and management in the 1985-86 state study means that their salaries are 15 percent higher than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of business administration and management with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make



NEW 4550 ASST ASST INSTRUCTOR ALL RANKS PROF PROF PROF PROF SALARY NUM N/IN STATE, 1985-86: BUSINESS ADMINISTRATION & MANAGEMENT AVERAGE SALARY: 41186 559 120 34603 645 133 29674 613 130 30371 102 61 21950 217 87 335/6 2034 144 FAC MIX PCT: 0.27 0.32 0.30 0.05 0.11 1 00 SALARY FACTOR: 1.08 1.11 1.21 1.06 1.07 1.15 ALL MAJOR FIELDS AVERAGE SALARY: 38112 17636 31074 15884 25911 14019 25065 1932 20777 3986 31282 51525 202 FAC MIX PCT: 0.34 0 31 0.27 0.04 0.08 1.00 STATE, 1988-89: BUSINESS ADMINISTRATION & MANAGEMENT AVERAGE 41542 607 131 SALARY: 48495 523 120 36323 599 132 38645 106 63 40340 1905 141 25632 176 76 FAC MIX PCT: 0.27 0.31 : 20 0.32 0.06 0.09 SALARY FACTOR: 1.09 ĩ.14 1.19 1.32 1.09 ALL MAJOR FIELDS AVERAGE SALARY: 44577 18904 36431 16110 30416 15286 29332 2573 23527 4252 36562 54552 202 FAC MIX PCT: 0.35 0.28 0.05 0.08 0.30 1.00 PRIVATE, 1985-86: BUSINESS ADMINISTRATION & MANAGEMENT A'/ERAGE SALARY: 42056 207 79 33261 360 108 26972 369 131 28245 59 43 21460 93 48 31708 1029 159 FAC MIX PCT: 0.20 0.35 0.36 0.06 0.09 1.00 SALARY FACTOR: 1.10 1.13 1.12 1.21 1.10 1.07 ALL MAJOR FIELDS AVERAGE SALARY: 38230 8391 29339 8352 24113 8321 23430 1204 19473 1985 29765 27049 259 FAC MIX PCT: 0.31 0.31 0.04 0.07 0.31 1.00 BUSINESS ADMINISTRATION & MANAGEMENT PRIVATE, 1988-89: AVERAGE SALARY: 49037 252 90 38928 384 118 32837 410 120 34144 79 49 38144 1109 158 24333 63 36 FAC MIX PCT: 0.23 0.35 0.37 0.07 0.06 1.00 SALARY FACTOR: 1.09 1.13 1.07 1.09 ALL MAJOR FIELDS AVERAGE SALARY: 44926 8877 34585 8852 28554 8980 28166 1388 22636 1918 35099 28627 259 FAC MIX PCT: 0.31 0.05 0.31 0.31 0.07 1.00



based on a simple comparison of averages.

RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of business administration and management was reported in 144 of the 202 state (AASCU) institutions. The average salary of the 2,034 faculty was \$33,576. This average salary was approximately 7 percent (1.07) higher than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of business administration and management was reported in 141 of the same 202 state (AASCU) institutions. The average salary of the 1,905 faculty was \$40,340. This average salary was approximately 10 percent (1.10) higher than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in business administration and management after three years in the state institutions studied was 20.1 percent (\$40,340 minus \$33,576 equals \$6,764). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 9.5 percent or an average of 3.2 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of business administration and management (20.1%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 3.2 percent (20.1% minus 16.9% equals 3.2%) less than faculty in the discipline/major field of business administration and management.



The reader may note that the faculty mix percentage in business administration and management is lower at the professor rank than at the assistant professor rank in both the state studies: 0.27 vs 0.30 (1985-86) and 0.27 vs 0.31 (1988-89), respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to business administration and management in both of the state studies.

Finally, the hiring rate of new assistant professors in business administration and management in the state studies was higher than the hiring rate in ALL MAJOR FIELDS both in 1985-86, 5 percent (102/2,034) vs. 3.7 percent (1,932/51,525), respectively; and in 1988-89, 5.6 percent (106/1,905) vs. 4.7 percent (2,573/54,552), respectively.

# RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of business administration and management was reported in 159 of the 259 private institutions. The average salary of the 1,029 faculty was \$31,708. This average salary was approximately 7 percent (1.07) higher than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of business administration and management was reported in 158 of the same 259 private institutions. The average salary of the 1,109 faculty was \$38,144. This average salary was about 9 percent (1.09) higher than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private study.



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The increase in average salaries for all faculty in business administration and management after three years in the private institutions studied was 20.3 percent (\$38,144 minus \$31,708 equals \$6,436). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 9.7 percent or 3.2 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of business administration and management (20.3%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 2.4 percent (20.3% minus 17.9% equals 2.4%) less than faculty in business administration and management.

In the discipline/major field of business administration and management, the reader may note that the faculty mix percentage at the professor rank is less than at the assistant professor rank in the private studies: 0.20 vs. 0.36 (1985-86), respectively; and 0.23 vs. 0.37 (1988-89), respectively. This is quite different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to business administration and management in both private studies.

Finally, the reader may note that the hiring rate of new assistant professors in business administration and management in the private studies was greater than the hiring rate in ALL MAJOR FIELDS both in 1985-86, 5.7 percent (59/1,029) vs. 4.5 percent (1,204/27,049), respectively; and in 1988-89, 7.1 percent (79/1,109) vs. 4.8 percent (1,388/28,627), respectively.



### CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/major field of business administration and management and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 6,077 faculty in the discipline/major field of business administration and management participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of business administration and management is currently (1988-89) some 10 and 9 percent above the overall average faculty salary of the other ALL MAJOR FIELDS for both the state and private studies, respectively. The average faculty salary for business administration and management in the private institutions was less compared to that in the state institutions in 1985-86. The overall salary average in the private institutions is now (1988-89) \$2,196 below that for the state institutions (5.8%).

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in business administration and management, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Business administration and management faculty salaries in both the state and private institutions exceeded faculty salaries



in ALL MAJOR FIELDS during this same period.

Third, in the discipline/major field of business administration and management the assistant professor rank has a greater percentage compared to the full professor rank for both the state and private studies. The full professor rank appears to be increasing at approximately the same rate both in the state and private institutions. It seems a slightly larger percentage of new assistant professors are being hired in the private institutions in comparison to the state institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in business administration and management, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Sandhya Maharaj is a research analyst in the Office of Equal Opportunity Programs at Appalachian State University, Boone, North Carolina.

### APPENDICES:



A - OVERALL LIST OF SELECTED DISCIPLINES, page 10

B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13

### APPENDIX A

# OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

DODINEDS LOOKONIO

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

CHEMISTRY

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION

SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

TOTAL: 45



### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

# Institutions Participating in Boch Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State Coilege (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State Coliege (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL) Fort Hays State University (KS)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL.) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OII) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL.) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (A2) Northern Illinois University (IL) Northern State College (SD)



Northwest Missouri State University (MO) Oakland University (MI) Old Dominion University (VA) Oregon Institute of Technology (OR) Pan American University (TX) Peru State College (NB) Pittsburg State University (KS) Plymouth State College (NH) Purdue University Calumet (IN) Radford University (VA) Ramapo College of New Jersey (NJ) Richard Stockton State College (NJ) Saginaw Valley State University (MI) Salem State College (MA) Salisbury State University (MD) Sam Houston State University (TX) San Diego State University (CA) Sangamon State University (IL) Savannah State College (GA) Shippensburg University of Pennsylvania (PA) Sonoma State University (CA) South Dakota School of Mines & Technology (SD) Southeast Missouri State University (MO) Southeastern Louisiana University (LA) Southern Arkansas University (AR) Southern Connecticut State University (CT) Southern Illinois University at Edwardsville (IL) Southern Illinois University of Carbondale (IL) Southern Orange State College (OR) Southwest Missouri State University (MO) Southwest State University (MN) Southwest Texas State University (TX) Southwestern Oklahoma State University (OK) St. Cloud State University (MN) State University of New York at Plattsburgh (NY) State University of New York College at Brockport (NY) State University of New York College at Buffalo (NY) State University of New York College at Cortland (NY) State University of New York College at Fredonia (NY) State University of New York College at Genesco (NY) Stephen F. Austin State University (TX) SUNY College of Technology at Utica/Rome (NY) Tennessee Technological University (TN) Texas A & I University (TX) Texas A & M University at Galveston (TX) Towson State University (MD) Trenton State College (NJ) Troy State University (AL) University of Akron, The (OH) University of Arkansas at Little Rock (AR) University of Baltimore (MD) University of Central Arkansas (AR) University of Colorado at Colorado Springs(CO)

University of the District of Columbia, The (DC) University of Houston at Clear Lake (TX) University of Lowell (MA) University of Maine at Presque Isle (ME) University of Maryland-Baltimore County, The (MD) University of Missouri - St. Louis (MO) University of Montevallo (AL) University of Nebraska at Omaha (NE) University of Nevada at Las Vegas ('V) University of North Carolina at Charlotte (NC) University of North Carolina at Greensboro (NC) University of Northern Colorado (CO) University of Northern Iowa (IA) University of Science & Arts of Oklahoma (OK) University of South Alabama (AL) University of South Carolina at Spartanburg (SC) University of South Florida (FL) University of Southern Colorado (CO) University of Southern Indiana (IN) University of Southern Maine (ME) University of Southwestern Louisiana (LA) University of Tennessee at Chattanooga (TN) University of Tennessee at Martin (TN) University of Texas at Dallas, The (TX) University of Texas at San Antonio (TX) University of Wisconsin - Eau Claire (WI) University of Wisconsin - La Crosse (WI) University of Wisconsin - Oshkosh (WI) University of Wisconsin - Platteville (WI) University of Wisconsin - Stevens Point (WI) University of Wisconsin - Stout (WI) University of Wisconsin - Superior (WI) University of Wisconsin - Whitewater (WI) Valdosta State College (GA) Valley City State University (ND) Weber State College (UT) West Georgia College (GA) West Liberty State College (WV) West Texas State University (TX) West Virginia College of Graduate Studies (4V) Western Carolina University (NC) Western Illinois University (IL) Western Kentucky University (KY) Western Michigan University (MI) Western Montana College (MT) Western New Mexico University (NM) Western Oregon State College (OR) Western State College of Colorado (CO) Western Washington University (WA) Wichita State University, The (KS) William Paterson College (NJ) Winthrop College (SC) Youngstown State University (OH)

Total: 202



### APPENDIX C

CUPA Privace Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

College Misericordia (PA) Adelphi University (NY) College of Great Falls (MT) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) College of Notice Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Allegheny College (PA) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (NJ) College of St. Joseph (VT) Alma College (MI) College of Saint Rose, The (NY) Alverno College (WI) College of St. Scholastica (MN) American Technological University (TX) College of the Holy Cross (MA) American University, The (DC) Columbia College (MO) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averatt College (VA) Creignton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Lickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College (NC) Dominican College of Blavelt (NY) Bethany College (WV) Drake University (IA) Bethel College (KS) Drew University (NJ) Bethel College (MN) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FL) Eckerd College (FL) Biola University (CA) Elmhurst College (IL) Birmingham-Southern College (AL) Elms College (MA) Bloomfiold College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (NH) Bryant College (RI) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Catholic University of America, The (DC) Georgetown University (DC) Georgian Court College (NJ) Catholic University of Puerto Rico (PR) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Greensboro College (NC) Central Wesleyan College (SC) Hamilton College (NY) Christian Brothers College (TN) Hamline University (MN) Clarkson University (NY)



Hampton University (VA) Missouri Baptist College (MO) Moravian College (PA) Hannibal-LaGrange College (HO) Mount Mary College (WI) Hartwick College (NY) Mount Mercy College (IA) Hastings College (NE) Mount St. Mary's College (CA) Heidelberg College (OH) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Neumann College (PA) Illinois Benedictine College (IL) New England College (NH) Illinois Institute of Technology (IL) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) John Carroll University ((OH) Norwich University (VT) Oakwood College (AL) Johns Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Pikeville College (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Fresbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College (IL) Lebanon Valley College (PA) Quincy College (IL) LeMoyne College (NY) Randolph-Macon College (VA) Lenoir-Rhyne College (NC) Reed College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Rensselaer Polytechnic Institute (NY) Long Island University (NY) Rider College (NJ) Loras College (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Rockford College (IL) Lubbock Christian University (TX) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lynchburg College (VA) Roosevelt University (IL) Lyoming College (PA) Rose-Hulman Institute of Technology (IN) Madonna Coliage (MI) Russell-Sage College (NY) Marist College (NY) Saint Edward's University (TX) Mars Hill College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Marymount Manhattan College (NY) Salut Vincent College (PA) .m College (NC) Maryville College (TN) Marywood College (PA) Saiem College (WV) Salve Regina -- The Newport College (RI) McPherson College (KS) Samford University (AL) Mercy College of Detroit (MI) Mercyhurst College (PA) Santa Clara University (CA) School of the Ozarks, The (17) Meredith College (NC) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Seton Hill (PA) Millsaps College (MS)



Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Hary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (Ok) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wi.gate College (NC) Wittenburg University (OH)

Total: 259



## SALARY-TREND STUDY OF FACULTY IN BUSINESS AND MANAGEMENT

## FOR THE YEARS

## 1985-86 AND 1988-89

By Richard D. Howe and Maryon Urguhart

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including business and management. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by A Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of business and management in the CIF is as follows:

A summary of groups of instructional programs that describe the processes of purchasing, selling, producing, and interchanging of goods, commodities, and services in profit making and non-profit state and private institutions and agencies.\*

[\*Gerald S. Malitz, A <u>Classification of Instructional Programs</u> (Washington, D.C.: National Center for Education Statistics, [1985] p. 44.--06)]

This article presents a summary of the overall average salary increases in the discipline/major field of business and management from the "baseline year"



of 1985-86 to and including the "trend year" of 1988-89 for both state and rivate institutions. Of the 262 institutions which participated in CUPA's STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

This study lists the average salaries of faculty in business and management for both state and private participating institutions by rank including "new assistant professor," the faculty mix percentage (FAC MIX PCT) and the salary factor. In addition, comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Therefore, the CPI was used to yield a more precise representation of "real" salary increases over time.

The salary is based on a nine-or ten-month academic year salary of full-time faculty only. It does not include any faculty members teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary is based on the study information with the assumption that all employees were full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.

The "N/IN" means the number of institutions that reported salary data for a



given 'ademic rank and discipline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .30 for associate professor of business and management in the 1985-86 state study means that 30 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given tank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 1.17 for assistant professors in the discipline/major field of business and management in the 1985-86 state study means that their salaries are 17 percent higher than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is 'he entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of business and management with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make based on a simple comparison of averages.



NEW ASS0 ASST ASST PROF PROF PROF INSTRUCTOR ALL RANKS PROF SALARY NUM N/IN BUSINESS & MANAGEMENT STATE, 1985-86: AVERAGE 79 30240 514 79 30762 83 37 22385 194 54 33730 1602 89 SALARY: 41484 414 480 72 35365 FAC MIX 1.00 PCT: 0.26 0.30 0.32 0.05 0.12 SALARY 1.08 1.08 1.23 1.14 1.17 FACTOR: 1.09 ALL MAJOR FIELDS AVERAGE 25911 14019 25065 1952 20777 3986 31282 51525 202 31074 15884 SALARY: 38112 17636 FAC MIX 0.04 0.08 1.00 0.27 0.34 0.31 PCT: STATE, 1988-89: BUSINESS & MANAGEMENT AVERAGE 37548 109 54 27927 169 62 41195 1794 102 560 92 41748 535 87 36267 SALARY: 50076 530 90 FAC MIX 0.31 0.06 0.09 1.00 0.30 PCT: 0.30 SALARY 1.19 1.28 1.19 1.13 1.15 FACTOR: 1.12 ALL MAJOR FIELDS **AVERAGE** SALARY: 44577 18904 36431 16110 30416 15286 29332 2573 23527 4252 36562 54552 202 FAC MIX 0.05 0.08 1,00 0.35 0.30 0.28 PCT: PRIVATE, 1985-86: **BUSINESS & MANAGEMENT** AVERAGE 51 30 22704 809 96 28829 67 33 33580 SALARY: 43372 202 34545 251 61 28421 289 72 FAC MIX 0.06 0.08 1.00 0.31 0.36 PCT: 0.25 SALARY 1.18 1.23 1.17 1.13 1.18 FACTOR: 1.13 ALL M.JOR FIELDS **AVERAGE** SALARY: 38230 8391 29339 8352 24113 8321 23430 1204 19473 1985 29765 27049 259 FAC MIX 0.31 0.04 0.07 1.00 0.31 0.31 PCT: BUSINESS & MANAGEMENT PRIVATE, 1988-89: AVERAGE 53 33 93 36 41397 994 109 287 72 35992 406 91 37448 26435 SALARY: 366G2 42874 208 56 FAC MIX 0.41 0.05 0.09 1.00 0.21 0.29 PCT: SALARY 1.24 1.26 1.33 1.17 1.18 FACTOR: 1.26 ALL MAJOR FIELDS **AVERAGE** 34585 8852 28554 8980 28166 1388 22636 1918 35099 28627 259 SALARY: 44926 8877 FAC MIX 0.05 0.07 1.00 PCT: 0.31 0.31 0.31



RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of business and management was reported in 89 of the 202 state (AASCIJ) institutions. The average salary of the 1,602 faculty was \$33,730. This average salary was approximately 8 percent (1.08) higher than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of business and management was reported in 102 of the same 202 state (AASCU) institutions. The average salary of the 1,794 faculty was \$41,195. This average salary was approximately 13 percent (1.13) higher than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in business and management after three years in the state institutions studied was 22.1 percent (\$41,195 minus \$33,730 equals \$7,465). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 11.5 percent or an average of 3.8 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the distipline/major field of business and management (22.1%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 5.2 percent (22.1% minus 16.9% equals 5.2%) tess than faculty in the discipline/major field of business and management.

The reader may note that the faculty mix percentage in business and management is lower at the professor rank than at the assistant professor rank in



both the state studies: 0.26 vs 0.32 (1985-86) and 0.30 vs 0.31 (1988-89), respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to business and management in both of the state studies.

Finally, the hiring rate of new assistant professors in business and management in the state studies was higher than the hiring rate in ALL MAJOR FIELDS both in 1985-86, 5.2 percent (83/1,602) vs. 3.7 percent (1,932/51,525), respectively; and in 1988-89, 6.1 percent (109/1,794) vs. 4.7 percent (2,373/54,552), respectively.

## RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of business and management was reported in 96 of the 259 private institutions. The average salary of the 809 faculty was \$33,580. This average salary was approximately 13 percent (1.13) higher than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of business and management was reported in 109 of the same 259 private institutions. The average salary of the 994 faculty was \$41,397. This average salary was about 18 percent (1.18) higher than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private study.

The increase in average salaries for all faculty in business and management



after three years in the private institutions studied was 23.3 percent (\$41,397 minus \$33,580 equals \$7,817). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 12.7 percent or 4.2 per ent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of business and management (23.3%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 5.4 percent (23.3% minus 17.9% equals 5.4%) less than faculty in the discipline/major field of business and management.

In the discipline/major field of business and management, the reader may note that the faculty mix percentage at the professor rank is less than at the assistant professor rank in the private studies: 0.25 vs. 0.36 (1985-86), respectively; and 0.21 vs. 0.41 (1988-89), respectively. This is quite different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to business and management in both private studies.

Finally, the reader may note that the hiring rate of new assistant professors in business and management in the private studies was greater than the hiring rate in ALL MAJOR FIELDS both in 1985-86, 6.3 percent (51/809) vs. 4.5 percent (1,204/27,049), respectively; and in 1988-89, 5.3 percent (53/994) vs. 4.8 percent (1,388/28,627), respectively. In other words the hiring rate in the discipline/major field of business and management exceeds ALL MAJOR FIELDS in both the private studies of 1985-86 and 1988-89.



## CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/major field of business and management and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 5,199 faculty in the discipline/major field of business and management participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of business and management is currently (1988-89) some 13 and 18 percent above the overall average faculty salary of the other 44 disciplines/major fields for both the state and private studies, respectively. The average faculty salary for business and management in the private institutions was greater in comparison to that in the state institutions in 1985-86. The overall salary average in real dollars in the private institutions is now (1988-89) \$202 greater in comparison to that for the state institutions (0.5%).

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in business and management, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Business and management faculty salaries in both the state and private institutions exceeded faculty in ALL MAJOR FIELDS during this same



period. Although having an average higher than ALL MAJOR FIELDS, business and management faculty in the state institutions have a little catching up to do in salary in comparison to their colleagues in the private institutions.

Third, in the discipline/major field of business and management the assistant professor rank has a greater percentage compared to the full professor rank for both the state and private studies. The full professor rank appears to be increasing at a greater rate in the state institutions compared to the private institutions. It seems a slightly smaller percentage of new assistant professors are being hired in the private inscitutions in comparison to the state institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in business and management, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Maryon Urquhart is a research analyst in the Office of Equal Opportunity Programs at Appalachian State University, Boone, North Carolina.

#### APPENDICES:



A - OVERALL LIST OF SELECTED DISCIPLINES, page 10

B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13

## APPENDIX A

## OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

CHEMISTRI

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION ADMINISTRATION

SECRETARIAL AND RELATED PROGRAMS

ENGINEERING

EDUCATION

SOCIOLOGY

FINE ARTS

SPECIAL, EDUCATION

SOCIAL SCIENCES

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

TOTAL: 45



### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (W) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL)

Fort Hays State University (KS)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (HI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State Un /ersity (IA) Memphis State University (TN) Mesa State College (CO) Metropolilan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (IL) Northern State College (SD)



## Participating Institutions, continued:

University of Colorado at Colorado Springs(CO) Northwest Missouri State University (MO) University of Houston at Clear Lake (TX) Oakland University (MI) University of Lowell (MA) Old Dominion University (VA) University of Maine at Presque Isle (ME) Oregon Institute of Technology (OR) University of Maryland-Baltimore County, The (MD) Pan American University (TX) University of Missouri - St. Louis (MO) Peru State College (NB) University of Montevallo (AL) Pittsburg State University (KS) University of Nebraska at Omaha (NE) Plymouth State College (NH) University of Nevada at Las Vegas (NV) Purdue University Calumet (IN) University of North Carolina at Charlotte (NC) Radford University (VA) University of North Carolina at Greensboro (NC) Ramapo College of New Jersey (NJ) University of Northern Colorado (CO) Richard Stockton State College (NJ) University of Northern Iowa (IA) Saginaw Valley State University (MI) University of Science & Arts of Oklahoma (OK) Salem State College (MA) University of South Alabama (AL) Salisbury State University (MD) University of South Carolina at Spartanburg (SC) Sam Houston State University (TX) University of South Florida (FL) San Diego State University (CA) University of Southern Colorado (CO) Sangamon State University (IL) University of Southern Indiana (IN) Savannah State College (GA) University of Southern Maine (ME) Shippensburg University of Pennsylvania (PA) University of Southwestern Louisiana (LA) Sonoma State University (CA) University of Tennessee at Chattanooga (TN) South Dakota School of Mines & Technology (SD) University of Tennessee at Martin (TN) Southeast Missouri State University (MO) Southeastern Louisiana University (LA) University of Texas at Dallas, The (TX) University of Texas at San Antonio (TX) Southern Arkansas University (AR) University of Wisconsin - Eau Claire (WI) Southern Connecticut State University (CT) University of Wisconsin - La Crosse (WI) Southern Illinois University at Edwardsville (IL) University of Wisconsin - Oshkosh (WI) Southern Illinois University of Carbondale (IL) University of Wisconsin - Platteville (WI) Southern Orange State College (OR) University of Wisconsin - Stevens Point (WI) Southwest Missouri State University (MO) University of Wisconsin - Stout (WI) Southwest State University (MN) University of Wisconsin - Superior (WI) Southwest Texas State University (TX) University of Wisconsin - Whitewater (WI) Southwestern Oklahoma State University (OK) St. Cloud State University (MN) Valdosta State College (GA) Valley City State University (ND) State University of New York at Plattsburgh (NY) State University of New York College at Brockport (NY) Weber State College (UT) State University of New York College at Buffaly (NY) West Georgia College (GA) West Liberty State College (WV) State University of New York College at Cortland (NY) West Texas State University (TX) State University of New York College at Fredonia (NY) West Virginia College of Graduate Studies (WV) State University of New York College at Genesco (NY) Western Carolina University (NC) Stephen F. Austin State University (TX) Western Illinois University (IL) SUNY College of Technology at Utica/Rome (NY) Western Kentucky University (KY) Tennessee Technological University (TN) Western Michigan University (MI) Texas A & I University (TX) Western Montana College (MT) Texas A & M University at Galveston (TX) Towson State University (MD) Western New Mexico University (NM) Western Oregon State College (OR) Trenton State College (NJ) Western State College of Colorado (CO) Troy State University (AL) Western Washington University (WA) University of the District of Columbia, The (DC) Wichita State University, The (KS) University of Akron, The (OH) University of Arkansas at Little Rock (AR) William Paterson College (NJ) Winthrop College (SC) University of Baltimore (MD) Youngstown State University (OH) University of Central Arkansas (AR)

Total: 202



#### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

## Institutions Participating in Both Studies:

College of Great Falls (MT) Adelphi University (NY) College Misericordia (PA) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Allegheny College (PA) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (NJ) College of Saint Rose, The (NY) Alma College (MI) College of St. Joseph (VT) Alverno College (WI) American Technological University (TX) College of St. Scholastica (MN) College of the Holy Cross (MA) American University, The (DC) Columbia College (MO) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) Azusa Pacific University (CA) D'Youville College (NY) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College (NC) Dominican College of Blavelt (NY) Bethany College (WV) Drake University (IA) Bethel College (KS) Drew University (NJ) Bethel College (Mix) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FL) Biola University (CA) Eckerd College (FL) Elmhurst College (IL) Birmingham-Southern College (AL) Elms College (MA) Bloomfield College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (Nii) Bryant College (RI) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabrini College (PA) Carlow College (PA) Georgetown College (KY) Catholic University of America, The (DC) Georgetown University (DC) Catholic University of Puerto Rico (PR) Georgian Court College (NJ) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Greensboro College (NC) Central Wesleyan College (SC) Christian Brothers College (TN) Hamilton College (NY) Hamline University (MN) Clarkson University (NY)



## Participating Institutions, continued:

Missouri Baptist College (MO) Hampton University (VA) Moravian College (PA) Hannibal-LaGrange College (MO) Mount Mary College (WI) Hartwick College (NY) Mount Mercy College (1A) Hastings College (NE) Mount St. Mary's College (CA) Heidelberg College (OH) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Neumann College (PA) Illinois Benedictine College (IL) New England College (NH) Illinois Institute of Technology (IL) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) Norwich University (VT) John Carroll University ((OH) Oakwood College (AL) John Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Pikeville College (KY) Lafavette College (PA) Presbyterian College (SC) Lakeland College (WI) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College (IL) LeMoyne College (NY) Quincy College (IL) Lebanon Valley College (PA) Randolph Macon College (VA) Lenoir Rhyne College (NC) Reed College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Renuselaer Polytechnic Institute (NY) Long Island University (NY) Rider College (NJ) Loras College (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Rockford College (IL) Lubbock Christian University (TX) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MI) Lyoming College (PA) Roosevelt University (IL) Lynchburg College (VA) Rose-Hulman Institute of Technology (IN) Madorina College (MI) Russell-Sage College (NY) Marist College (NY) Saint Edward's University (TX) Mars Hill College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Saint Vincent College (PA) Marymount Manhattan College (NY) Salum College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) Salve Regina -- The Newport College (RI) McPherson College (KS) Samford University (AL) Mercy College of Detroit (MI) Santa Clara University (CA) Mercyhurst College (PA) School of the Ozarks, The (MO) Meredith College (NC) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Seton H.11 (PA) Millsaps College (MS)



## Participating Institutions, continued:

Siena College (NY) Siena Heights College (MI) Simpson College (1A) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Boneventure University (NY) St. Francis College (NY) St. Mai,'s University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (IA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Hiami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson Coilege (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC) Wittenburg University (OH)

Total: 259



# SALARY-TREND STUDY OF FACULTY IN BUSINESS ECONOMICS

FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Maryon Urquhart

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including business economics. The disciplines were chosen from among those define! by the Higher Education General Information Study (EEGIS) Taxonomy and by \ Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of business economics in the CIP is as follows:

An instructional program that describes the principles and methods for organizing a business firm and for combining resources to produce goods and services, taking account of costs, profits and the nature and extent of competition in markets.\*

[\* Gerald S. Malitz, A <u>Classification of Instructional</u>
<u>Programs</u> (Washington, D.C.: National Center for Education Statistics,[1985]. p.45.--06.0501)]

This article presents a summary of the overall average salary increases in the discipline/major field of business economics from the "baseline year" of



1985-86 to and including the "trend year" of 1988-39 for both state and private institutions. Of the 262 institutions which participated in CUPA's STATE (AAS-CU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

This study lists the average salaries of business economics faculty for both STATE and private participating institutions by rank including "new assistant professors," the faculty mix percentage (FAC MIX PCT) and the salary factor. In addition, comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Therefore, the CPI was used to yield a more precise representation of "real" salary increases over time.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. It does not include any faculty members teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary is based on the study information with the assumption that all employees were full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.

The "N/IN" means the number of institutions that reported salary data for a



given academic rank and discipline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .31 for associate professor of business economics in the 1985-86 state study means that 31 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 1.09 for assistant professors in the discipline/major field of business economics in the 1985-86 state study means that their salaries are 9 percent higher than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of business economics with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and alidity of any conclusions that one met make based on a simple comparison of averages.



NEW **ASSO** ASST ASST PROF PROF PROF INSTRUCTOR ALL RANKS PROF SALARY NUM N/IN SALARY NUM N/I'. STATE, 1985-86: BUSINESS ECONOMICS AVERAGE 33348 910 1.5 SALARY: 40141 298 99 33134 283 100 28292 276 89 28588 52 36 22640 53 33 FAC MIX PCT: 0.31 0.30 0.06 0.06 1.00 SALARY 1.07 1.09 1.09 1.07 FACTOR: 1.05 1.14 ALL MAJOR FIELDS **AVERAGE** 31074 15884 25911 14019 25065 1932 20777 3986 31282 51525 202 SALARY: 38112 17636 FAC MIX PCT: 0.34 0.31 0.27 0.04 0.08 1.00 STATE, 1988-89: BUSINESS ECONOMICS AVERAGE 25140 49 33 39373 903 115 SALARY: 47112 313 94 38676 284 96 33433 257 90 33233 53 36 FAC MIX 0.05 PCT: 0.35 0.31 0.28 0.06 1.00 SALARY 1.06 1.06 1.10 1.13 1.07 1.08 FACTOR: ALL MAJOR FIELDS AVERAGE 36562 54552 202 SALARY: 44577 18904 36431 16110 30416 15286 29332 2573 42.52 23527 FAC MIX PCT: 0.35 0.30 0.28 0.05 0.08 1.00 PRIVATE, 1985-86: BUSINESS ECONOMICS AVERAGE SALARY: 40507 128 67 32100 160 86 26884 221 95 26314 36 30 21334 36 31 1248 545 138 FAC MIX PCT: 0.23 0.29 0.41 0.07 0.07 1.00 SALARY 1.09 1.10 1.05 FACTOR: 1.06 1.11 1.12 ALL MAJOR FIELDS AVERAGE 29765 27049 259 SALARY: 38230 8391 29339 8352 24113 8321 23430 1204 19473 1985 FAC MIX 0.31 0.31 0.31 0.04 0.07 1.00 PRIVATE, 1989-89: BUSINESS ECONOMICS **AVERAGE** 37504 207 104 SALARY: 47555 145 37 14 36800 627 152 76 31208 238 106 31193 35 29 26682 FAC MIX PCT: 0.23 0.33 0.38 0.06 0.06 1.00 SALARY 1.08 1.09 1.18 1.05 FACTOR: 1.06 ALL MAJOR FIELDS AVERAGE 28554 8980 22636 1915 35099 28627 259 SALARY: 44926 8877 34585 8852 28166 1388 FAC MIX PCT: 0.31 0.31 0.31 0.05 0.07 1.00



RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of business economics was reported in 115 of the 202 state (AASCU) institutions. The average salary of the 910 faculty was \$33,348. This average salary was approximately 7 percent (1.07) higher than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of business economics was reported in 115 of the same 202 state (AASCU) institutions. The average salary of the 903 faculty was \$39,373. This average salary was approximately 8 percent (1.08) higher than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in business economics after three years in the state institutions studied was 18.1 percent (\$39,373 minus \$33,348 equals \$6,025). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 7.5 percent or an average of 2.5 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of business economics (18.1%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 1.2 percent (18.1% minus 16.9% equals 1.2%) less than faculty in the discipline/major field of business economics.

The reader may note that the faculty mix percentage in business economics is higher at the professor rank than at the assistant professor rank in both the state studies: 0.33 vs 0.30 (1985-86) and 0.35 vs 0.28 (1988-89),



respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively. In other words ALL MAJOR FIELDS has a somewhat similar percentage of professors and assistant professors compared to business economics in both of the state studies.

Finally, the hiring rate of new assistant professors in business economics is high in the state studies: 5.7 percent (52/910) in 1985-86 vs. 3.7 percent (1,932/51,525) in ALL MAJOR FIELDS in 1985-86. Also, the hiring rate of new assistant professors in business economics in 1988-89 was 5.9 percent (53/903) vs. 4.7 percent (2,573/54,552) in ALL MAJOR FIELDS that same year. In other words with the hiring rate in the discipline/major field of business economics being higher than that for ALL MAJOR FIELDS in both of the state studies indicates that business economics continues to be a "growing" discipline nationally.

### RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of business economics was reported in 138 of the 259 private institutions. The average salary of the 545 faculty was \$31,248. This average salary was approximately 5 percent (1.05) higher than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of business economics was reported in 152 of the same 259 private institutions. The average salary of the 627 faculty was \$36,800. This average salary was approximately 5 percent (1.05) higher than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private



study.

The increase in average salaries for all faculty in business economics after three years in the private institutions studied was 17.8 percent (\$36,800 minus \$31,248 equals \$5,552). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 7.2 percent or 2.4 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of business economics (17.8%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by only .1 percent (17.9% minus 17.8% equals .1%) less than faculty in the discipline/major field of business economics.

In the discipline/major field of business economics, the reader may note that the faculty mix percentage at the professor rank is less than at the assistant professor rank in the private studies: 0.23 vs. 0.41 (1985-86), respectively; and 0.23 vs. 0.38 (1988-89), respectively. This is quite different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to business economics in both private studies.

Finally, the reader may note that the hiring rate of new assistant professors in business economics in the private studies was greater than the hiring rate in ALL MAJOR FIELDS both in 1985-86, 6.6 percent (36/545) vs. 4.5 percer (1,204/27,049), respectively; and in 1988-89, 5.6 percent (35/627) vs. 4.8 percent (1,388/28,627), respectively. In other words the hiring rate in the discipline/major field of business economics exceeds ALL MAJOR FIELDS in both the private studies of 1985-86 and 1988-89.



#### CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/major field of business economics and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 2,985 faculty in the discipline/major field of business economics participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of business economics is currently (1988-89) some 8 and 5 percent above the overall average faculty salary of ALL MAJOR FIELDS for both the state and private studies, respectively. The average faculty salary for business economics in the state institutions was greater in comparison to that in the private institutions in 1985-86. The overall salary factor in the state institutions is now (1988-89) 7 percent higher than the overall average in comparison to that for the private institutions: 1.08 vs. 1.05, respectively.

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in business economics, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Business economics faculty salaries in both the state and private institutions exceeded faculty in ALL MAJOR FIELDS during this same



period.

Third, in the discipline/major field of business economics the assistant professor rank has a greater percentage compared to the full professor rank for the private studies and just the opposite is the case for the state studies. The full professor rank appears to be increasing more quickly in the state institutions. It seems that a slightly higher percentage of new assistant professors are being hired in the state institutions in comparison to the private institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in business economics, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Maryon Urquhart is a research analyst in the Office of Equal Opportunity Programs at Appalachian State University, Boone, North Carolina.

## APPENDICES:



A - OVERALL LIST OF SELECTED DISCIPLINES, page 10

B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13

## APPENDIX A

# OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MAMAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

\_\_\_\_\_\_

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

CHEMISTRY

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

SECRETARIAL AND RELATED PROGRAMS

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY

TEACHER EDUCATION, GENERAL PROGRAMS

GECLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

TOTAL: 45



#### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fulle.con (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL)

Florida International University (FL)

Fort Hays State University (KS)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (IL) Northern State College (SD)



## Participating Institutions, continued:

Northwest Missouri State University (MO) Cakland University (MI) Old Dominion University (VA) Oregon Institute of Technology (OR) Pan American University (TX) Peru State College (NB) Pittsburg State University (KS) Plymouth State College (NH) Purdue University Calumet (IN) Radford University (VA) Ramapo College of New Jersey (NJ) Richard Stockton State College (NJ) Saginaw Valley State University (MI) Salem State College (MA) Salisbury State University (MD) Sam Houston State University (TX) San Diego State University (CA) Sangamon State University (IL) Savannah State College (GA) Shippensburg University of Pennsylvania (PA) Sonoma State University (CA) South Dakota School of Mines & Technology (SD) Southeast Missouri State University (MO) Southeastern Louisiana University (LA) Southern Arkansas University (AR) Southern Connecticut State University (CT) Southern Illinois University at Edwardsville (IL) Southern Illinois University of Carbondale (IL) Southern Orange State College (OR) Southwest Missouri State University (MO) Southwest State University (MN) Southwest Texas State University (TX) Southwestern Oklahoma State University (OK) St. Cloud State University (MN) State University of New York at Plattsburgh (NY) State University of New York College at Brockport (NY) State University of New York College at Buffaly (NY) State University of New York College at Cortland (NY) State University of New York College at Fredonia (NY) State University of New York College at Genesco (NY) Stephen F. Austin State University (TX) SUNY College of Technology at Utica/Rome (NY) Tennessee Technological University (TN) Texas A & I University (TX) Texas A & M University at Galveston (TX) Towson State University (MD) Trenton State College (NJ) Troy State University (AL) University of the District of Columbia, The (DC) University of Akron, The (OH) University of Arkansas at Little Rock (AR) University of Baltimore (MD) University of Central Arkansas (AR)

University of Colorado at Colorado Springs(CO) University of Houston at Clear Lake (TX) University of Lowell (MA) University of Maine at Presque Isle (ME) University of Maryland-Baltimore County, The (MD) University of Missouri - St. Louis (MO) University of Montevallo (AL) University of Nebraska at Omaha (NE) University of Nevada at Las Vegas (NV) University of North Carolina at Charlotte (NC) University of North Carolina at Greensboro (NC) University of Northern Colorado (CO) University of Northern Iowa (IA) University of Science & Arts of Oklahoma (OK) University of South Alabama (AL) University of South Carolina at Spartanburg (SC) University of South Florida (FL) University of Southern Colorado (CO) University of Southern Indiana (IN) University of Southern Maine (hE) University of Southwestern Louisiana (LA) University of Tennessee at Chattanooga (TN) University of Tennessee at Martin (TN) University of Texas at Dallas, The (TX) University of Texas at San Antonio (TX) University of Wisconsin - Eau Claire (WI) University of Wisconsin - La Crosse (WI) University of Wisconsin - Oshkosh (WI) University of Wisconsin - Platteville (WI) University of Wisconsin - Stevens Point (WI) University of Wisconsin - Stout (WI) University of Wisconsin - Superior (WI) University of Wisconsin - Whitewater (WI) Valdosta State College (GA) Valley City State University (ND) Weber State College (UT) West Georgia College (GA) West Liberty State College (WV) West Texas State University (TX) West Virginia College of Graduate Studies (WV) Western Carolina University (NC) Western Illinois University (IL) Western Kentucky University (KY) Western Michigan University (MI) Western Montana College (MT) Western New Mexico University (NM) Western Oregon State College (OR) Western State College of Colorado (CO) Western Washington University (WA) Wichita State University, The (KS) William Paterson College (NJ) Winthrop College (SC) Youngstown State University (OH)

Total: 202

ERIC

#### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

Adelphi University (NY) College of Great Falls (MT) College Misericordia (PA) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Allegheny College (PA) College of Saint Elizabeth (NJ) Allentown College of St. Francis de Sales (PA) College of Saint Rose, The (NY) Alma College (MI) College of St. Joseph (VT) Alverno College (WI) American Technological University (TX) College of St. Scholastica (MN) College of the Holy Cross (MA) American University, The (DC) Columbia College (MO) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Aquinas College (MI) Concordia College (MN) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) Azusa Pacific University (CA) D'Youville College (NY) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College (NC) Dominican College of Blavelt (NY) Bethany College (WV) Drake University (IA) Bethel College (k. Drew University (NJ) Bethel College (MN) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FI) Eckerd College (FL) Biola University (CA) Elmhurst College (IL) Birmingham-Southern College (AL) Flms College (MA) Bloomfield College (NJ) Boston University (MA) Emerson College (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (NH) Bryant College (RI) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Catholic University of America, The (DC) Georgetown University (DC) Catholic University of Puerto Rico (PR) Georgian Court College (NJ) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Greensboro College (NC) Central Wesleyan College (SC) Christian Brothers College (TN) Hamilton College (NY) Hamline University (MN) Clarkson University (NY)



## Participating Institutions, continued:

Missouri Baptist College (MO) Hampton University (VA) Moravian College (PA) Hannibal-LaGrange College (MO) Mount Mary College (WI) Hartwick College (NY) Mount Mercy College (IA) Hastings College (NE) Mount St. Mary's College (CA) Heidelberg College (OH) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Neumann College (PA) Illinois Benedictine College (IL) Illinois Institute of Technology (1L) New England College (NH) North Central College (1L) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) Nerwich University (VT) John Carroll University ((OH) Oakwood College (AL) John Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Pikeville College (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College (IL) LeMoyne College (NY) Quincy College (IL) Lebanon Valley College (PA) Randolph-Macon College (VA) Lenoir-Rhyne College (NC) Reed College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Rensselaer Polytechnic Institute (NY) Long Island University (NY) Rider College (NJ) loras Col'ege (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Rockford College (IL) Lubbock Christian University (TX) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lyoming College (PA) Roosevelt University (IL) Lynchburg College (VA) Rose-Hulman Institute of Technology (IN) Madonna College (MI) Russell-Sage College (NY) Marist College (NY) Mars Hill College (NC) Saint Edward's University (TX) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Saint Vincent College (PA) Marymount Manhattan College (NY) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) Salve Regina -- The Newport College (RI) McPherson College (KS) Samford University (AL) Mercy College of Detroit (MI) Santa Clara University (CA) Mercyharat College (PA) School of the Ozarks, The (HO) Meredith College (NC) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Seton Hill (PA) Millsaps College (MS)



## Participating Institutions, continued:

Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. ary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (IA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC) Wittenburg University (OH)

Total: <u>259</u>



## SALARY-TREND STUDY OF FACULTY IN CHEMISTRY

### FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Maryon Urquhart

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including chemistry. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by A Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of chemistry in the CIP is as follows:

A group of instructional programs that describe the micro and macro structure of .matter, of the changes matter undergoes, of the energy involved in these changes, and of the models that interpret and the theories and laws that describe these phenomena.\*

[\*Gerald S. Malitz, A Classification of Instructional Programs (Washington, D.C.: National Center for Education Statistics, [1985], p. 129.--40.05)]

This article presents a summary of the overall average salary increases in the discipline/major field of chemistry from the "baseline year" of 1985-86 to



and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA's STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

In addition to listing the average salaries in chemistry for both state and private participating institutions by rank, including "new assistant professor," and listing the faculty mix percentage (FAC MIX PCT) and the salary factor, comparisons are made between the two studies for each of the two study years (1985-86 and 1988-89) and with the CPI (Consumer Price Index) of changes in cost-of-living.

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy and the CPI yields a more precise representation of "real" salary increases over time.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. It does not include any faculty members teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary is based on the study information with the assumption that all employees were full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.

The "N/IN" means the number of institutions that reported salary data for a



given academic rank and discipline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .25 for associate professor of chemistry in the 1985-86 state study means that 25 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of .97 for assistant professors in the discipline/major field of chemistry in the 1985-86 state study means that their salaries are 3 percent lower than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of chemistry with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make based on a simple comparison of averages.



NEW ASS0 ASST ASST PROF PRCF PROF PROF INSTRUCTOR ALL RANKS SALARY NUM N/IN CHEMISTRY STATE, 1985-86: AVERAGE SALARY: 38191 797 157 30731 367 144 25051 294 121 24509 60 45 21114 29 27 33418 1487 174 FAC MIX 0.25 0.20 0.04 0.02 1.00 PCT: 0.54 SALARY 0.98 1.02 1 07 1.00 0.99 0.97 FACTOR: ALL MAJOR FIELDS **AVERAGE** SALARY: 38112 17636 31074 15884 25911 14019 25065 1932 20777 3986 31282 51525 202 FAC MIX ა.08 0.27 0.04 1.00 PCT: 0.34 0.31 CHEMISTRY STATE, 1988-69: AVERAGE SALARY: 44704 801 163 35438 362 137 28888 313 130 28311 56 43 22537 36 29 38683 1512 173 FAC MIX 1.00 0.24 0.21 0.04 0.02 PCT: 0.53 SALARY FACTOR: 1.00 0.97 0.95 0.97 0.96 1.06 ALL MAJOR FIELDS AVERAGE SALARY: 44577 18904 23527 4252 36562 54552 202 36431 18110 30416 15286 29332 2573 FAC MIX 0.05 0.08 1.00 0.35 0.30 0.28 PCT: PRIVATE, 1985-86: CHEMISTRY AVERAGE 23706 39 18741 24 23 32360 1079 232 23562 233 130 33 271 148 SALARY: 38593 551 185 28459 FAC MIX 0.51 0.25 0.22 0.04 0.02 1.00 PCT: SALARY 0.96 1.09 1.01 0.97 0.98 1.01 FACTOR: ALL MAJOR FIELDS AVERAGE 24113 8321 23430 1204 19473 1985 29765 27049 259 SALARY: 38230 8391 29339 8352 FAC MIX 0.31 0.04 0.07 1.00 0.31 0.31 PCT: PRIVATE, 1988-89: CHEMISTRY AVERAGE 269 143 27147 259 142 25696 49 44 22568 25 20 37314 1072 230 SALARY: 45226 519 182 33207 FAC MIX 0.24 0.05 0.02 1.00 PCT: 0.48 0.25 SALARY 0.95 1.00 1.06 0.96 0.91 FACTOR: 1.01 ALL MAJOR FIELDS **AVERAGE** 28554 8980 28166 1388 22636 1918 35099 28627 259 SALARY: 44926 E877 34585 8852 FAC MIX 0.07 0.31 0.31 0.31 0.05 1.00 PCT:



RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of chemistry was reported in 174 of the 202 state (AASCU) institutions. The average salary of the 1,487 faculty was \$33,418. This average salary was approximately 7 percent (1.07) higher than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 198 89 salary study in the above table, the discipline/major field of chemistry was reported in 173 of the same 202 state (AASCU) institutions. The average salary of the 1,512 faculty was \$38,683. This average salary was approximately 6 percent (1.06) higher than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in chemistry after three years in the state institutions studied was 15.8 percent (\$38,683 minus \$33,418 equals \$5,265). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 5.2 percent or an average of 1.7 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of chemistry (15.8%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 1.1 percent (16.9% minus 15.8% equals 1.1%) more than faculty in the discipline/major field of chemistry.

Since the discipline/major field of chemistry is one of the "older" disciplines, the reader may note that the faculty mix percentage is higher at the professor rank than at the assistant professor rank in the state studies;



0.54 vs. 0.20 (1985-86) respectively; and 0.53 vs. 0.21 (1988-89) respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies is as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89) respectively. In other words ALL MAJOR FIELDS has a lower percentage of professors and a higher percentage of assistant professors compared to chemistry in both state studies.

Finally, the hiring rate of new assistant professors in chemistry is moderate in the state studies: 4.0 percent (60/1,487) in 1985-86 vs. 3.7 percent (1,932/51,525) in ALL MAJOR FIELDS in 1985-86. Also, the hiring rate of new assistant professors in chemistry in 1988-89 was 3.7 percent (56/1,512) vs. 4.7 percent (2,573/54,552) in ALL MAJOR FIELDS that same year. In other words the hiring rate in the discipline/major field of chemistry is slightly higher than for ALL MAJOR FIELDS in 1985-86 and lower than all ALL MAJOR FIELDS in 1988-89.

# RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of chemistry was reported in 232 of the 259 private institutions. The average salary of the 1,079 faculty was \$32,360. This average salary was approximately 9 percent (1.09) higher than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of chemistry was reported in 230 of the same 259 private institutions. The average salary of the 1,072 faculty was \$37,314. This average salary was approximately 6 percent (1.06) higher than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private



study.

The increase in average salaries for all faculty in chemistry after three years in the private institutions studied was 15.3 percent (\$37,314 minus \$32,360 equals \$4,954). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 4.7 percent or 1.6 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of chemistry (15.3%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 2.6 percent (17.9% minus 15.3% equals 2.6%) more than faculty in the discipline/major field of chemistry.

Because the discipline/major field of chemistry is one of the "older" disciplines, the reader may note that the faculty mix percentage is higher at the professor rank han at the assistant professor rank in the private studies: 0.51 vs. 0.22 (1985-86) respectively; and 0.48 vs. 0.24 (1988-89) respectively. This differs from ALL MAJOR FIELDS; FAC MIX PCT are equal for both private studies: 0.31 vs. 0.31 (1985-86); and 0.31 vs. 0.31 (1988-89) respectively. In other words ALL MAJOR FIELDS has a lower percentage of professors and a higher percentage of assistant professors than chemistry in both private studies.

Finally, the reader may note that the hiring rate of new assistant professors in chemistry in the 1985-86 private study was lower than the hiring rate in ALL MAJOR FIELDS; 3.6 percent (39/1,079) vs. 4.5 percent (1,204/27,049) respectively; and in the 1988-89 private study, almost equal: 4.6 percent (49/1,072) vs. 4.8 percent (1,388/28,627) respectively.



#### CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/ major field of chemistry and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 and the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and he other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 5,150 faculty in the discipline/major field of chemistry participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of chemistry is currently (1988-89) some 6 percent above the overall average faculty salary of ALL MAJOR FIELDS for both the state and private studies, respectively. The average faculty salary for chemistry in the private institutions was 4 percent less than that in the state institutions in 1985-86. The overall salary average in the private institutions is now (1988-89) 4 percent less than that in the state institutions.

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in chemistry, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Chemistry faculty salaries in both the state and private institutions, however, lagged behind faculty in ALL MAJOR FIELDS during this same period.



Third, since the discipline/major field of chemistry is one of the older disciplines, there is a marked difference between the number of faculty with the rank of full professor and assistant professor in the state and in the private institutions. The full professor rank is already "top hea y" in both the state and private institutions. It seems a healthy percentage of new assistant professors are being hired both in the state and private institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in chemistry, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA facult, salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Maryon Urguhart is a research analyst in the Office of Equal Opportunity Programs, Appalachian State University, Boone, North Carolina.

### APPENDICES:



A - OVERALL LIST OF SELECTED DISCIPLINES, page 10

B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13

# APPENDIX A

# OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION LETTERS

ANTHROPOLOGY LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN LIFE SCIENCES

AREA AND ETHNIC STUDIES MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT MUSIC

RUSINESS AND MANAGEMENT NURSING

BUSINESS ECONOMICS PHILOSOPHY AND RELIGION

CHEMISTRY PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES PHYSICAL SCIENCES

COMMUNICATIONS PHYSICS

COMPUTER & INFORMATION SCIENCES POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION PSYCHOLOGY

DRAMATIC ARTS READING EDUCATION

EDUCATION SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION SOCIAL SCIENCES

ENGINEERING SOCIULOGY

FINE ARTS SPECIAL EDUCATION

FOREIGN LANGUAGES STUDENT COUNSELING AND PERSONNEL

SERVICES

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

H1STORY

TOTAL: 45



**GEOGRAPHY** 

### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus Co'lege (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL)

Fort Hays State University (KS)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College ("A) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morenead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (A2) Northern Illinois University (IL) Northern State College (SD)



## Participating Institutions, continued:

University of Colorado at Colorado Springs(CO) Northwest Missouri State University (MO) University of Houston at Clear Lake (TX) Oakland University (MI) University of Lowell (MA) Old Dominion University (VA) University of Maine at Presque Isle (ME) Oregon Institute of Technology (OR) University of Maryland-Baltimore County, The (MD) Pan American University (TX) University of Missouri - St. Louis (MO) Peru State College (NB) University of Montevallo (AL) Pittsburg State University (KS) University of Nebraska at Omaha (NE) Plymouth Scate College (NH) University of Nevada at Las Vegas (NV) Purdue University Calumet (IN) University of North Carolina at Charlotte (NC) Radford University (VA) University of North Carolina at Greensboro (NC) Ramapo College of New Jersey (NJ) University of Northern Colorado (CO) Richard Stockton State College (NJ) University of Northern Iowa (IA) Saginaw Valley State University (MI) University of Science & Arts of Oklahoma (OK) Salem State College (MA) Salisbury State University (MD) University of South Alabama (AL) University of South Carolina at Spartanburg (SC) Sam Houston State University (TX) University of South Florida (FL) San Diego State University (CA) University of Southern Colorado (CO) Sangamon State University (IL) University of Southern Indiana (IR) Savannah State College (GA) University of Southern Maine (ME) Shippensburg University of Pennsylvania (PA) University of Southwestern Louisiana (LA) Schoma State University (CA) University of Tennessee at Chattanooga (TN) South Dakota School of Mines & Technology (SD) University of Tennessee at Martin (TN) Southeast Missouri State University (MO) University of Texas at Dallas, The (TX) Southeastern Louisiana University (LA) University of Texas at San Antonio (TX) Southern Arkansas University (AR) University of Wisconsin - Eau Claire (WI) Southern Connecticut State University (CT) University of Wisconsin - La Crosse (WI) Southern Illinois University at Edwardsville (IL) University of Wisconsin - Oshkosh (WI) Southern Illinois University of Carbondale (IL) University of Wisconsin - Platteville (WI) Southern Orange State College (OR) Southwest Missouri State University (MO) University of Wisconsin - Stevens Point (WI) University of Wisconsin - Stout (WI) Southwest State University (MN) University of Wisconsin - Superior (WI) Southwest Texas State University (TX) University of Wisconsin - Whitewater (WI) Southwestern Oklahoma State University (OK) Valdosta State College (GA) St. Cloud State University (MN) Valley City State University (ND) State University of New York at Plattsburgh (NY) Weber State College (UT) State University of New York College at Brockport (NY) West Georgia College (GA) State University of New York College at Buffaly (NY) State University of New York College at Cortland (NY) West Liberty Stat College (WV) West Texas State University (TX) State University of New York College at Fredonia (NY) West Virginia College of Graduate Studies (WV) State University of New York College at Genesco (NY) Western Carolina University (NC) Stephen F. Austin State University (TX) Western Illinois University (IL) SUNY College of Technology at Utica/Rome (NY) Western Kentucky University (KY) Tennessee Technological University (TN) Western Michigan University (MI) Texas A & I University (TX) Western Montana College (MT) Texas A & M University at Galveston (TX) Western New Mexico University (NM) Towson State University (MD) Western Oregon State College (OR) Trenton State College (NJ) Western State College of Colorado (CO) Troy State University (AL) Western Washington University (WA) University of the District of Columbia, The (DC) Wichita State University, The (KS) University of Akron, The (OH) William Paterson College (NJ) University of Arkansas at Little Rock (AR) Winthrop College (SC) University of Baltimore (MD) Youngstown State University (OH) University of Central Arkansas (AR)

Total: 202



### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

College of Great Falls (MT) Adelphi University (NY) College Misericordia (PA) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Allegheny College (PA) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (NJ) College of Saint Rose, The (NY) Alma College (MI) College of St. Joseph (VT) Alverno College (WI) College of St. Scholastica (MN) American Technological University (TX) College of the Holy Cross (MA) American University, The (DC) Columbia College (MC) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana Colloge (IL) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College (NC) Dominican College of Blavelt (NY) Bethany College (WV) Drake University (IA) Bethel College (KS) Drew University (NJ) Bethel College (MN) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FL) Ecke Coilege (FL) Biola University (CA) Elmhurst College (IL) Birmingham-Southern College (AL.) Elms College (MA) Blocmfield College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (NH) Bryant College (RI) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Georgetown University (DC) Catholic University of America, The (DC) Catholic University of Puerto Rico (PR) Georgian Court College (NJ) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Greensboro College (NC) Central Wesleyan College (SC) Hamilton College (NY) Christian Brothers College (TN) Hamline University (MN) Clarkson University (NY)



# Participating Institutions, continued:

Missouri Baptist College (MO) Hampton University (VA) Moravian College (PA) Hannibal-LaGrange College (MO) Mount Mary College (WI) Hartwick College (NY) Mount Mercy College (IA) Hastings College (NE) Mount St. Mary's Coll ,e (CA) H. idelberg College (OH) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Neumann College (PA) Illinois Benedictine College (IL) New England College (NH) Illinois Institute of Technology (IL) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) Norwich University (VT) John Carroll University ((OH) Oakwood College (AL) John Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Pikeville College (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College 'IL) LeMoyne College (NY) Quincy College (IL) Lebanon Valley College (PA) Randoiph-Macon College (VA) Lenoir-Rhyne College (NC) Reed College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Rensselaer Polytechnic Institute (NY) Long Island University (NY) Rider College (NJ) Loras College (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Rockford College (IL) Lubbock Christian University (TX) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lyoming College (PA) Roosevelt University (IL) Lynchburg College (VA) Rose-Hulman Institute of Technology (IN) Madonna College (MI) Russell-Sage College (NY) Marist College (NY) Saint Edward's University (TX) Mars Hill College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Saint Vincent College (PA) Marymount Manhatian College (NY) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) Salve Regina--The Newport College (RI) McPherson College (KS) Samford University (AL) Mercy College of Detroit (MI) Santa Clara University (CA) Mercyhurst College (PA) School of the Czarks, The (MO) Meredith College (NC) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Seton Hill (PA) Millsaps College (MS)



# Participating Institutions, continued:

Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TY) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (YA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC) Wittenburg University (OH)

Total: <u>259</u>



# SALARY-TREND STUDY OF FACULTY IN COMMUNICATION TECHNOLOGIES

FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Patton Reighard

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including communication technologies. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by  $\underline{A}$  Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of communication technologies in the  $\underline{CIP}$  is as follows:

A summary of groups of instructional programs that prepare individuals to support and assist communication professionals and skilled communication workers. Programs stress specialized, practical knowledge related to the mechanical, scientific, or technical aspects of communications. These groups include the technologies of educational media; motion picture; photography; and, radio and television production and broadcasting.\*

[Gerald S. Malitz, A <u>Classification of Instructional Programs</u> (Washington, D.C.: National Center for Education Statistics, [1985] p. 62.--10.)]

This article presents a summary of the overall average salary increases in



the discipline/major field of communication technolog.es from the "baseline year" of 1985-86 to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA'S STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

This study lists the average salaries of communication technologies faculty for both private and state participating institutions by rank, including "new assistant professor," FAC MIX PCT (Faculty Mix Percentage) and the salary fac tor. In addition, comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Therefore, the CPI was used to yield a more precise representation of "real" salary increases over time.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. It does not include any faculty members teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary is based on the study information with the assumption that all employees were full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.



The "N/IN" means the number of institutions that reported salary data for a given academic rank and disc pline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .28 for associate professor of communication technologies in the 1985-86 state study means that 28 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 0.98 for assistant professors in the discipline/major field of communication technologies in the 1985-86 state study means that their salaries are 2 percent lower than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of communication technologies with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make



ASS0 ASST ASST PROF PROF PROF INSTRUCTOR ALL RANKS SALARY NUM N/IN STATE, 1985-86: COMMUNICATION TECHNOLOGIES AVERAGE SALARY: 37214 38 14 3040ό 41 16 25780 45 14 24805 5 19310 21 10 29147 145 20 FAC MIX PCT: 0.26 0.28 0.31 0.05 0.14 1.00 SALARY FACTOR: 0.98 0.98 0.99 0.99 0.93 0.93 ALL MAJOR FIELDS AVERAGE SALARY: 38112 17636 31074 15884 25911 14019 25065 1932 20777 3986 31282 51525 202 FAC MIX 0.08 PCT: 0.34 0.31 0.27 0.04 1.00 STATE, 1988-89: COMMUNICATION TECHNOLOGIES AVERAGE 30480 SALARY: 45149 33 11 34402 42 14 53 12 27800 3 26419 23 6 34158 151 16 FAC MIX PCT: 0.22 0.28 0.35 0.03 0.15 1.00 SALARY FACTOR: 1.61 0.94 1.00 0.95 0.93 1.12 ALL MAJOR FIELDS **AVERAGE** SALARY: 44577 18904 36431 16110 36562 54552 202 30416 15286 29332 2573 23527 4252 FAC MIX PCT: 0.35 0.30 0.28 0.05 0.08 1.00 COMMUNICATION TECHNOLOGIES PRIVATE, 1985-86: AVERAGE 7 66 22 SALARY: 33817 32149 11 6 23654 40 18 24855 10 5 18320 6 25971 FAC MIX PCT: 0.14 0.61 0.17 0.15 0.09 1.00 SALARY FACTOR: 0.88 1.10 0.98 1.06 0.94 0.87 ALL MAJOR FIELDS AVERAGE SALARY: 38230 8391 29339 8352 24113 8321 23430 1204 19473 1985 29765 27049 259 FAC MIX PCT: 0.31 0.31 0.31 0.64 0.07 1.00 PRIVATE, 1988-89: COMMUNICATION TECHNOLOGIES AVERAGE 17058 30715 SALARY: 45394 13 6 32103 18 12 27878 52 19 26680 5 4 5 3 88 23 FAC MIX PCT: 0.15 0.20 0.59 0.06 0.06 1.00 SALARY FACTOR: 1.01 0.93 0.98 0.95 0.75 0.88 ALL MAJOR FIELDS **AVERAGE** SALARY: 44926 8877 34585 8852 28554 8980 28166 1388 22636 1918 35099 28627 259 FAC MIX



PCT:

0.31

0.31

0.31

0.07

1.00

0.05

based on a simple comparison of averages.

RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of communication technologies was reported in 20 of the 202 state (AASCU) institutions. The average salary of the 145 faculty was \$29,147. This average salary was approximately 7 percent (0.93) lower than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of communication technologies was reported in 16 of the same 202 state (AASCU) institutions. The average salary of the 151 faculty was \$34,158. This average salary was about 7 percent (0.93) lower than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in communication technologies after three years in the state institutions studied was 17.2 percent (\$34,158 minus \$29,147 equals \$5,011). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 6.6 percent or an average of 2.2 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of communication technologies (17.2%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by .3 percent (17.2% minus 16.9% equals .3%) more than faculty in the discipline/major field of communication technologies.

The reader may note that the faculty mix percentage in communication technologies is lower at the professor rank than at the assistant professor rank in both the state studies: 0.26 vs. 0.31 (1985-86) and 0.22 vs. 0.35 (1988-89),



respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89) respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to communication technologies in both of the state studies.

Finally, the hiring rate of new assistant professors in communication technologies was higher in comparison to ALL MAJOR FIELDS in the 1985-86 state study: 4.8 percent (7/145) vs. 3.7 percent (1,932/51,525), respectively. The hiring rate of new assistant professors in communication technologies in 1988-89, however, was less than that of ALL MAJOR FIELDS: 2.6 percent (4/151) vs. 4.7 percent (2,573/54.552) respectively.

# RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of communication technologies was reported in 22 of the 259 private institutions. The average salary of the 66 faculty was \$25,971. This average salary was approximately 13 percent (0.87) lower than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of communication technologies was reported in 23 of the same 259 private institutions. The average salary of the 88 faculty was \$30,715. This average salary was approximately 12 percent (0.88) lower than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private study.

The increase in average salaries for all faculty in communication technol-



ogies after three years in the private institutions studied was 18.3 percent (\$30,715 minus \$25,971 equals \$4,744). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 7.7 percent or 2.6 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of communication technologies (18.3%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by .4 percent (18.3% minus 17.9% equals .4%) less than faculty in the discipline/major field of communication technologies.

In the discipline/major field of communication technologies, the reader may note that the faculty mix percentage at the professor rank is less than at the assistant professor rank in the private studies: 0.14 vs. 0.61 (1985-86), respectively; and 0.15 vs. 0.59 (1988-89), respectively. This is quite different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to communication technologies in both private studies.

Finally, the reader may note that the hiring rate of new assistant professors in communication technologies in the private studies was much greater than the hiring rate in ALL MAJOR FIELDS both in 1985-86, 15.2 percent (10/66) vs. 4.5 percent (1,204/27,049), respectively; and in 1988-89, 5.7 percent (5/88) vs. 4.8 percent (1,388/28,627), respectively. In other words the hiring rate in the discipline/major field of communication technologies greatly exceeds that of ALL MAJOR FIELDS in both the private studies.



#### CONCLUDING REMARKS

This article presented salary-trend information on the acade...c discipline/major field of communication technologies and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 450 faculty in the discipline/major field of communication technologies participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of communication technologies is currently (1988-89) some 7 and 12 percent below the overall average faculty salary of ALL MAJOR FIELDS for both the state and private studies, respectively. The average faculty salary for communication technologies in the private institutions was approximately 12 percent less in comparison to that in the state institutions in 1985-86. The overall salary average in the private institutions is now (1988-89) 11 percent less in comparison to that for the state institutions.

Second, the CPI of October 1988, in comparison to the CPT of October 1985, indicates that the faculty in communication technologies, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Communication technologies faculty salaries in the state institutions lagged slightly behind faculty salaries in ALL MAJOR FIELDS during this same period and faculty in the private institutions were barely ahead.



Third, in the discipline/major field of communication technologies the assistant professor rank has a greater percentage compared to full and associate professor ranks for both the state and private studies. The full professor rank appears to be increasing rather slowly in both the state and private institutions. It seems a smaller percentage of new assistant professors in communication technologies are being hired in the state institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in communication technologies, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Patton Reighard is professor of communication arts at Appalachian State University, Roone, North Carolina.

## APPENDICES:

A - OVERALL LIST OF SELECTED DISCIPLINES, page 10



B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13

# APPENDIX A

# OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

CHEMISTRY

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

**TSYCHOLOGY** 

DRAMATIC ARTS

READING EDUCATION

EDUCATION

SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

**TOTAL: 45** 



#### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The ('IY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Deita State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas Stace University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illino:s University (1L) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M university (FL) Florida Atlantic University (FL) Florida International University (FL)

Fort Hays State University (KS)

Fort Lewis Cullege (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) ' Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (IL) Northern State College (SD)



## Participating Institutions, continued:

University of Colorado at Colorado Springs(CO) Northwest Missouri State University (MO) University of Houston at Clear Lake (TX) Oakland University (MI) University of Lowell (MA) Old Dominion University (VA) University of Maine at Presque Isle (ME) Oregon Institute of Technology (OR) University of Maryland-Baltimore County, The (MD) Pan American University (TX) University of Missouri - St. Louis (MC) Peru State College (NB) University of Montevallo (AL) Pittsburg State University (KS) University of Nebraska at Omaha (NE) Plymouth State College (NH) University of Nevada at Las Vegas (NV) Purdue University calumet (IN) University of North Carolina at Charlotte (NC) Radford University (VA) University of North Carolina at Greensboro (NC) Ramapo College of New Jersey (NJ) University of Northern Colorado (CO) Richard Stockton State College (NJ) Saginaw Valley State University (MI) University of Northern Iowa (IA) University of Science & Arts of Oklahoma (OK) Salem State College (MA) University of South Alabama (AL) Salisbury State University (MD) University of South Carolina at Spartanburg (SC) Sam Houston State University (TX) University of South Florida (FL) San Diego State University (CA) University of Southern Colorado (CO) Sangamon State University (IL) University of Southern Indiana (IN) Savannah State College (GA) University of Southern Maine (ME) Shippensburg University of Permsylvania (PA) University of Southwestern Louisiana (LA) Sonoma State University (CA) University of Tennessee at Chattanooga (TN) South Dakota School of Mines & Technology (SD) University of Tennessee at Martin (TN) Southeast Missouri State University (MO) University of Texas at Dallas, The (TX) Southeastern Louisiana University (IA) University of Texas at San Antonio (TX) Southern Arkansas University (AR) University of Wisconsin - Eau Claire (WI) Southern Connecticut State University (CT) University of Wisconsin - La Crosse (WI) Southern Illinois University at Edwardsville (IL) University of Wisconsin - Oshkosh (WI) Southern Illinois University of Carbondale (IL) University of Wisconsin - Platteville (WI) Southern Orange State College (OR) University of Wisconsin - Stevens Point (WI) Southwest Missouri State University (MO) University of Wisconsin - Stout (W1) Southwest Scate University (M'') University of Wisconsin - Superior (WI) Southwest Texas State University (IX) University of Wisconsin - Whitewater (WI) Southwestern Oklahoma State University (OK) St. Cloud State University (MN) Valdosta State College (GA) Valley City State University (ND) State University of New York at Plattsburgh (NY) Weber Stace College (UT) State University of New York College at Brockport (NY) West Georgia College (GA) State University of New York College at Buffaly (NY) West Liberty State College (WV) State University of New York College at Cortland (NY) West Texas State University (TX) State University of New York College at Fredomia (NY) West Virginia College of Graduate Studies (WV) State University of New York College at Genesco (NY) Western Carolina University (NC) Stephen F Austin State University (TX) Western Illinois University (IL) SUNY College of Technology at Utica/Rome (NY) Tennessee Technological University (TN) Western Kentucky University (kY) Western Michigan University (MI) Texas A & I University (TX) Western Montana College (MT) Texas A & M University at Galveston (TX) western New Mexico University (NM) Towson State University (MD) Western Oregon State College (OR) Trenton State College (NJ) Western State College of Colorado (CO) Troy State University (AL) Western Washington University (WA) University of the District of Columbia, The (DC) Wichita State University, The (KS) University of Akron, The (OH) William Paterson College (NJ) University of Arkansas at Little Rock (AR) Winthrop College (SC) University of Baltimore (MD) Youngstown State University (OH) University of Central Arkansas (AR)

Total: 202



#### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

# Institutions Participating in Both Studies:

College of Great Falls (MT) Adelphi University (NY) College Misericordia (PA) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Aliegheny College (PA) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (NJ) College of Saint Rose, The (NY) Alma College (MI) College of St. Joseph (VT) Alverno College (WI) College of St. Scholastica (MN) American Technological University (TX) College of the Holy Cross (MA) American University, The (PC) Columbia College (MO) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aguinas College (MI) Concordia College (WI) Arkarsas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College (NC) Dominican College of Blavelt (NY) Bethany College (WV) Drake University (IA) Bethel College (KS) Drew University (NJ) Bethel College (MN) Eastern Mennomite College and Seminary (VA) Bethune-Cookman College (FL) Eckerd College (FL) Biola University (CA) Birmingham-Southern College (AL) Elmhurst College (IL) Elms College (MA) Bloomfield College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (NH) Bryant College (RI) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Georgetown University (DC) Catholic University of America, The (DC) Catholic University of Puerto Rico (PR) Georgian Court College (NJ) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Greensbore College (NC) Central Wesleyan College (SC) Hamilton College (NY) Christian Brothers College (TN) Hamline University (MN) Clarkson University (NY)



# Participating Institutions, continued:

Missouri Baptist College (MO) Hampton University (VA) Hannibal-LaGrange College (MO) Moravian College (PA) Mount Mary College (WI) Hartwick College (NY) Mount Mercy Coilege (IA) Hastings College (NE) Mount St. Mary's College (CA) Heidelberg College (OH) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Neumann College (PA) Illinois Benedictine College (IL) New England College (NH) Illinois Institute of Technology (IL) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) Norwich University (VT) John Carroll University ((OH) Oakwood College (AL) John Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Pikeville College (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College (IL) LeMoyne College (NY) Quincy College (IL) Lebanon Valley College (PA) Randolph-Macon College (VA) Lenoir-Rhyne College (NC) Reed College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Rensselaer Polytechnic Institute (NY) Long Island University (NY) Rider College (NJ) Loras College (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Rockford College (IL) Lubbock Christian University (TX) Rockiurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lyoning College (PA) Roosevelt University (IL) Lynchburg College (VA) Rose-Hulman Institute of Technology (IN) Madonna College (MI) Russell-Sage Coalege (NY) Marist College (NY) Saint Edward's University (TX) Mars Hili College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary Colleg: (KS) Marymount College (NY) Saint Vincent College (PA) Marymount Manhattan College (NY) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) Salve Regina -- The Newport College (RI) McPherson College (K3) Samford University (AL) Mercy College of Detroit (MI) Santa Clara University (CA) Mercyhurst College (PA) School of the Ozarks, The (MO) Meredith College (NC) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Seton Hill (PA) Millsaps College (MS)



# Participating Institutions, continued:

Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquenanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity Col ege Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OK) Warrer Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC) Wittenburg University (OH)

Total: 259



# SALARY-TREND STUDY OF FACULTY IN COMMUNICATIONS

FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Patton Reighard

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including communications. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by A Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of communications in the CIP is as follows:

A summary of groups of instructional programs that describe the creation, transmission, and evaluation of messages.

[\*Gerald S. Malitz, A <u>Classification of Instructional Programs</u> (Washington, D.C.: National Center for Education Statistics, [1985], p. 61.-09.)]

This article presents a summary of the overall average salary increases in the discipline/major field of communications from the "baseline year" of 1985-86 to and including the "trend year" of 1988-89 for both state and private



institutions. Of the 262 institutions which participated in CUPA's STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the baseline year and the trend year. Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the baseline year and the trend year.

This study lists the average salaries of communications faculty for both state and private participating institutions by rank, including "new assistant professor," the FAC MIX PCT (faculty mix percentage) and the salary factor. In addition, comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1938-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Therefore, the CPI was used to yield a more precise representation of "real" salary increases over time.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. It does not include any faculty members teaching less than 51 percent. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary is based on the study information with the assumption that all employees were full-time. The average salary displayed is an average of all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.

The "N/IN" means the number of institutions that reported salary data for a given academic rank and discipline/major field.



The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .31 for associate professor of communications in the 1985-86 state study means that 31 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 0.95 for assistant professors in the discipline/major field of communications in the 1985-86 state study means that their salaries are 5 percent lower than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of communications with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make based on a simple comparison of averages.

NEW ASS0 ASST ASST **PROF** PROF PROF INSTRUCTOR **PROF** ALL RANKS SALARY NUM N/IN STATE, 1985-86: COMMUNICATIONS AVERAGE SALARY: 37102 277 92 30092 372 116 24626 370 118 23036 59 49 20435 193 74 28487 1212 138 FAC MIX PCT: 0.23 0.31 0.31 0.05 0.10 1.00 SALARY FACTOR: 0.97 0.97 0.95 0.92 0.98 ዮ 91 ALJ. MAJOR FIELDS AVERAGE SALARY: 38112 17636 31074 15884 25911 14019 25665 20777 31282 51525 202 1932 3986 FAC MIX PCT: 0.34 0.31 0.27 0.04 0.08 1.00 STATE, 1988-89: COMMUNICATIONS AVERAGE SALARY: 43857 319 107 34972 345 116 28447 430 121 27682 84 52 23012 193 71 33200 1287 138 FAC MIX 0.25 PCT: 0.27 0.33 0.07 0.15 1.00 SALARY FACTOR: 0.98 0.94 0.94 0.98 0.96 0.91 ALL MAJOR FIELDS AVERAGE SALARY: 44577 18904 36431 16110 30416 15286 29332 2573 23527 4252 36562 54552 202 FAC MIX 0.35 0.28 0.05 0.08 1.00 PCT: 0.30 PRIVATE, 1985-86: COMMUNICATIONS AVERAGE 23195 254 93 59 29703 213 76 49 19032 83 48 SALARY: 35523 138 22856 34 27180 688 128 FAC MIX PCT: 0.20 0.31 0.37 0.07 0.12 1.00 SALARY 0.91 FACTOR: 0.93 1.01 0.96 0.98 0.98 ALL MAJOR FIELDS AVERAGE 29765 27049 259 1204 19473 1985 SALARY: 38230 8391 29339 8352 24113 8321 23430 FAC MIX PCT: 0.31 0.310.31 0.04 0.07 1.00 PRIVATE, 1988-89: COMMUNICATIONS AVERAGE SALARY: 42685 123 58 35473 228 78 27330 292 108 26924 58 41 22270 81 44 31937 724 142 FAC MIX 80.0 1.00 PCT: 0.17 0.31 0.40 0.11 SALARY 0.98 0.91 FACTOR: 0.95 1.03 0.96 0.96 ALL MAJOR FIELDS # VERAGE SALARY: 4492€ 8877 34585 8852 28554 8980 28166 1388 22636 1918 35099 28627 259 FAC MIX PCT: 0.31 0.31 0.31 0.05 0.07 1.00



RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of communications was reported in 138 of the 202 state (AASCU) institutions. The average salary of the 1,212 faculty was \$28,487. This average salary was approximately 9 percent (0.91) lower than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of communications was reported in 138 of the same 202 state (AASCU) institutions. The average salary of the 1,287 faculty was \$33,200. This average salary was approximately 9 percent (0.91) lower than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in communications after three years in the state institutions studied was 16.5 percent (\$33,200 minus \$28,487 equals \$4,713). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 5.9 percent or an average of 2.0 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the scipline/major field of communications (16.5%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by .4 percent (16.9% minus 16.5% equals .4%) more than faculty in the discipline/major field of communications.

The reader may note that the faculty mix percentage in communications is lower at the professor rank than at the assistant professor rank in both the state studies: 0.23 vs 0.31 (1985-86) and 0.25 vs 0.33 (1988-89), respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor and assistant professor.



tant professor in ALL MAJOR FIELDS for both state studies are as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to communications in both of the state studies.

Finally, the hiring rate of new assistant professors in communications is high in the state studies: 4.9 percent (59/1,212) in 1985-86 vs. 3.7 percent (1,932/51,525) in ALL MAJOR FIELDS in 1985-86. Also, the hiring rate of new assistant professors in communications in 1988-89 was 6.5 percent (84/1,287) vs. 4.7 percent (2,573/54,552) in ALL MAJOR FIELDS that same year. In other words the hiring rate in the discipline/major field of communications is less than for ALL MAJOR FIELDS in the state study of 1985-86. Conversely, the hiring rate in the discipline/major field of communications is higher than for ALL MAJOR FIELDS in the state study of 1985-86.

# RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of communications was reported in 128 of the 259 private institutions. The average salary of the 688 faculty was \$27,180. This average salary was approximately 9 percent (0.91) lower than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of communications was reported in 142 of the same 259 private institutions. The average salary of the 724 faculty was \$31,937. This average salary approximately 9 percent (0.91) lower than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private study.

The increase in average salaries for all faculty in communications ofter



three years in the private institutions studied was 17.5 percent (\$31,937 minus \$27,180 equals \$4,757). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 6.9 percent or 2.3 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of communications (17.5%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by .4 percent (17.9% minus 17.5% equals .4%) more than faculty in the discipline/major field of communications.

In the discipline/major field of communications, the reader may note that the faculty mix percentage at the professor rank is much less than at the assistant professor rank in the private studies: 0.20 vs. 0.37 (1985-86), respectively; and 0.17 vs. 0.40 (1988-89), respectively. This is quite different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86) respectively; and 0.31 vs. 0.31 (1988-89) respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to communications in both private studies.

Finally, the reader may note that the hiring rate of new assistant professors in communications in the private studies was greater than the hiring rate in ALL MAJOR FIELDS both in 1985-86 7.1 percent (49/688) vs. 4.5 percent (1,204/27,049), respectively; and in 1988-89, 8.0 percent (58/724) vs. 4.8 percent (1,388/28,627), respectively. In other words the hiring rate in the discipline/ major field of communications exceeds ALL MAJOR FIELDS in both the private studies of 1985-86 and 1988-89.

# CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/major field of communications and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and inthe trend year—a total of four studies. A total of 3,911 faculty in the discipline/major field of communications participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of communications is currently (1988-89) approximately 9 percent below the overall average faculty salary of ALL MAJOR FIELDS for both the state and private studies. The average faculty salary for communications in the private institutions was approximately 5 percent less in comparison to that in the state institutions in 1985-86. The overall salary factor in the private institutions is now (1988-89) still the same at approximately 4 percent less in comparison to that for the state institutions.

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in communications, in both state and private institutions, received overall salary increases for three years above the cost-of-living. However, communications faculty salaries in both the state and private institutions lagged behind those of ALL MAJOR FIELDS during this same period. Communications faculty in ooth state and private institutions have some catching up to do in salary in comparison to their colleagues in ALL MAJOR FIELDS.



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Third, in the discipline/major field of communications the assistant professor rank has a greater percentage compared to full professor for both the state and private studies. The full professor rank appears to be increasing more rapidly in the state institutions, in comparison to the private institutions. It seems a smaller percentage of new assistant professors in ALL MAJOR FIELDS are being hired in the private institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in communications, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North arolina. Co-author Patton Reighard is professor of communication arts at Appalachian State University, Boone, North Carolina.

### APPENDICES:

A - OVERALL LIST OF SELECTED DISCIPLINES, page 10





B - LIST OF STATE Participating Institutions, page 11

C - LIST OF PRIVATE Participating Institutions, page 13

### APPENDIX A

# OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

**LETTERS** 

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

CHEMISTRY

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION |

SECPETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

**GEOGRAPHY** 

FEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

TOTAL: 45



#### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Statem Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Easter., Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL)

Fort Hays State University (KS)

Fort Levis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley Scate University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (MI) Lander Colleg. (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (IL) Northern State College (SD)



## Participating Institutions, continued:

Northwest Missouri State University (MO) Oakland University (MI) Old Dominion University (VA) Oregon Institute of Technology (OR) Pan American University (TX) Peru State College (NB) Pittsburg State University (KS) Plymouth State College (NH) Purdue University Calumet (IN) Radford University (VA) Ramapo College of New Jersey (NJ) Richard Stockton State College (NJ) Saginaw Valley State University (MI) Salem State College (MA) Salisbury State University (MD) Sam Houston State University (TX) San Diego State University (CA) Sangamon State University (IL) Savannah Scate College (GA) Shippensburg University of Pennsylvania (PA) Sonoma State University (CA) South Dakota School of Mines & Technology (SD) Southeast Missouri Stat∈ niversity (MO) Southeastern Louisiana University (LA) Southern Arkansas University (AR) Southern Connecticut State University (CT) Southern Illinois University at Edwardsville (IL) Southern Illinois University of Carbondale (IL) Southern Orange State College (OR) Southwest Missouri State University (MO) Southwest State University (MN) Southwest Texas State University (TY) Southwestern Oklahoma State University (OK) St. Cloud State University (MN) State University of New York at Plattsburgh (NY) State University of New York College at Brockport (NY) State University of New York College at Buffaly (NY) State University of New York College at Cortland (NY) State University of New York College at Fredomia (NY) State University of New York College at Genesco (NY) Stephen F. Austin State University (TX) SUNY College of Technology at Utica/Rome (NY) Tennessee Technological University (TN) Texas A & I University (TX) Texas A & M University at Galveston (TX) Towson State University (MD) Trenton State College (NJ) Troy State University (AL) University of the District of Columbia, The (DC) University of Akron, The (OH) University of Arkansas at Little Rock (AR) Winthrop College (S') University of Baltimore (MD) Youngstown State University (OH) University of Central Arkansas (AR)

University of Colorado at Colorado Springs(CO) University of Houston at Clear Lake (TX) University of Lowell (MA) University of Maine at Presque Isle (ME) University of Maryland-Baltimore County, The (MD) University of Missouri - St. Louis (MO) University of Montevallo (AL) University of Nebraska at Omaha (NE) University of Nevada at Las Vegas (NV) University of North Carolina at Charlotte (NC) University of North Carolina at Greensboro (NC) University of Northern Colorado (CO) University of Northern Iowa (IA) University of Science & Arts of Oklahoma (OK) University of South Alabama (AL) University of South Carolina at Spartanburg (SC) University of South Florida (FL) University of Southern Colorado (CO) University of Southern Indiana (IN) University of Southern Maine (ME) University of Southwestern Louisiana (LA) University of Tennessee at Chattanooga (TN) Uriversity of Tennessee at Martin (TN) University of Texas at Dallas, The (TX) University of Texas at San Antonio (TX) University of Wisconsin - Eau Claire (WI) University of Wisconsin - La Crosse (WI) University of Wisconsin - Oshkosh (WI) University of Wisconsin - Platteville (WI) University of Wisconsin - Stevens Point (Wi) University of Wisconsin - Stout (WI) University of Wisconsin - Superior (WI) University of Wisconsin - Whitewater (WI) Valdostá State College (GA) Valley City State University (ND) Weber State College (UT) West Georgia College (GA) West Liberty State College (WV) West Texas State University (TX) West Virginia College of Graduate Studies (WV) Western Carolina University (NC) Western Illinois University (IL) Western Kentucky University (KY) Western Michigan University (MI) Western Montana College (MT) Western New Mexico University (NM) Western Oregon State College (OR) Western State College of Colorado (CO) Western Washington University (WA) Wichita State University, The (KS) William Paterson College (NJ)

Total: 202

### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

## Institutions Participating in Both Studies:

College of Great Falls (MT) Adelphi University (NY) College Misericordia (PA) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (Cr) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Aliegheny College (PA) Allentown College cf St. Francis de Sales (PA) College of Saint Elizabeth (NJ) College of Saint Rose, The (NY) Alma College (MI) College of St. Joseph (VT) Alverno College (WI) College of St. Scholastica (MN) American Technological University (TX) College of the Holy Cross (MA) American University, The (DC) Columbia College (MO) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Dozne College (NE) Belmont Abbey College (NC) Dominican College of Blavelt (NY) Bethany College (WV) Drake University (IA) Bethel College (KS) Drew University (NJ) Bethel College (MN) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FL) Eckerd College (FL) Biola University (CA) Elmhurst College (IL) Birmingham-Southern College (AL) Flms College (MA) Blocmfield College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bille College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (MH) Bryant College (RI) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Catholic University of America, The (DC) Georgetown University (DC) Catholic University of Puerto Rico (PR) Georgian Court College (NJ) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Greensborn College (NC) Central Wesleyan College (SC) Hamilton College (NY) Christian Brothers College (TN) Hamline University (MN) Clarkson University (NY)



Missouri Baptist College (MO) Hampton University (VA) Moravian College (PA) Hannibal-LaGrange College (MO) Mount Mary College (WI) Hartwick College (NY) Mount Mercy College (IA) Hastings College (NE) Heidelberg College (OH) Mount St. Mary's College (CA) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Neumann College (PA) Illinois Benedictine College (IL) New England College (NH) Illinois Institute of Technology (IL) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) John Carroll University ((OH) Norwich University (VT) Oakwood College (AL) John Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Piedmont College (GA) LaRoche College (PA) Pikeville College (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College (IL) LeMoyne College (NY) Quincy College (IL) Lebanon Valley College (PA) Randolph-Macon College (VA) Lenoir-Rhyne College (NC) Read College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Rensselaer Polytechnic Institute (NY) Long Island University (KY) Loras College (IA) Rider College (NJ) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Lubbock Christian University (TX) Rockford College (1L) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lyoming College (PA) Roosevelt University (IL) Lynchburg College (VA) Rose-Hulman Institute of Technology (IN) Madonna College (MI) Russell-Sage College (NY) Marist College (NY) Saint Edward's University (TX) Mars Hill College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Saint Vincent College (PA) Marymount Manhattan College (NY) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) Salve Regina -- The Newport College (RI) McPherson College (KS) Samford University (AL) Mercy College of Detroit (MI) Santa Clara University (CA) Mercyhurst College (PA) School of the Ozarks, The (MO) Meredith College (NC) Midland Lutheran College (NE) Seattle Pacific University (WA) Seattle University (WA) Millikin University (IL) Seton Hill (PA) Millsaps College (MS)



Siena College (MY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC)

Wittenburg University (OH)

Total: <u>259</u>



# SALARY-TREND STUDY OF FACULTY IN COMPUTER AND INFORMATION SCIENCE FOR THE YEARS

# 1985-86 AND 1988-89

By Richard D. Howe and Maryon Urquhart

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has inducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including computer and information science. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by A Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of computer and information science in the CIP is as follows:

A summary of groups of instructional programs that describe the coding, processing, and storage of data through repetitious and highly complex mathematical operations at high speed, and in accordance with strictly defined systems and procedures.\*

[\*Gerald S. Malitz, <u>A Classification of Instructional Programs</u> (Washington, DC.: National Center for Education Statistics, [1985], p. 63.--11)]

This article presents a summary of the overall average salary increases in the discipline/major field of computer and information science from the "base-



line year" of 1985-86 to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA's STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the "baseline year" and the "trend year". Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the "baseline year" and the "trend year".

This study lists the average salaries of computer and information science faculty for both state and private participating institutions by rank, including "new assistant professor," the FAC MIX PCT (faculty mix percentage) and the salary factor. In addition, comparisons are made with the CPI (consumer price index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends ir faculty salary it is important to consider any changes in the economy. Thus, by comparing changes in faculty salaries with the CPI, a more precise representation of the "real" salary increases is yielded.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. Full-time faculty members are those who teach no less than 51 percent of the time. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary displayed is computed from all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.

The "N/IN" means the number of institutions that reported salary data for a given academic rank and discipline/major field.

The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .30 for associate professor of computer and information science in the 1985-86 state study means that 30 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 1.14 for assistant professors in the discipline/major field of computer and information science in the 1985-86 state study means that their salaries are 14 percent higher than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of computer and information science with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greate, the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make based on a simple comparison of averages.



NEW ASST ASST ASSO ALL RANKS INSTRUCTOR PROF PROF PRCF PROF SALARY NUM N/IN COMPUTER AND INFORMATION SCIENCE STATE, 1985-86: AVERAGE SALARY: 41899 29631 416 126 29620 80 53 23236 203 85 32485 1203 146 227 96 35086 357 126 FAC MIX PCT: 0.19 0.30 0.35 0.07 0.17 1.00 SALARY 1.04 1.12 FACTOR: i.10 1.13 1.14 1.18 ALL MAJOR FIELDS AVERAGE SALARY: 38112 17636 31074 15884 25911 14019 25065 1932 20777 3986 31282 51525 202 FAC MIX 0.04 0.08 1.00 0.27 PCT: 0.34 0.31 COMPUTER AND INFORMATION SCIENCE STATE, 1988-89: AVERAGE 82 56 25695 199 84 38847 1377 161 41568 400 128 35739 482 145 37230 296 120 SALARY: 49077 FAC MIX PCT: 0.06 0.14 1.00 0.21 0.29 0.35 SALARY 1.18 1.27 1.09 1.06 FACTOR: i.10 1.14 ALL MAJOR FIELDS **AVERAGE** 36562 54552 202 4252 SALARY: 4/577 18904 36431 16110 30416 15286 29332 2573 23527 FAC MIX 0.08 0.28 0.05 1.00 0.30 PCT: 0.35 COMPUTER AND INFORMATION SCIENCE PRIVATE, 1985-86: AVERAGE 27781 270 134 27158 49 42 21973 92 65 SALAR:: 41101 55 32976 170 81 30216 619 178 FAC MIX 0.44 0.08 0.14 0.27 0.15 1.00 PCT: SALARY FACTOR: 1.12 1.15 1.16 1.13 1.02 1.08 ALL MAJOR FIELDS **AVERAGE** 29339 8352 24113 8321 23430 1204 19473 1985 29765 27049 259 SALARY: 38230 8391 FAC MIX PCT: 0.31 0.31 0,31 0.04 0.07 1.00 COMPUTER AND INFORMATION SCIENCE PRIVATE, 1988-89: AVERAGE SALARY: 49351 39929 226 97 32254 338 136 33958 43 30 25317 72 50 36517 751 183 115 FAC MIX 0.45 0.06 0.10 1.00 PCT: 0.15 0.30 SALARY i.21 1.04 FACTOR: 1.10 1.15 1.13 1.12 ALL MAJOR FIELDS **AVERAGE** SALARY: 44926 8877 34585 8852 28554 8980 28166 1388 22636 1918 35099 28627 259 FAC MIX 0.31 0.31 0.05 0.07 1.00 PCT: 0.31



RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of computer and information science was reported in 146 of the 202 state (AASCU) institutions. The average salary of the 1,203 faculty was \$32,485. This average salary was approximately 4 percent (1.04) higher than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of computer and information science was reported in 161 of the same 202 state (AASCU) institutions. The average salary of the 1,377 faculty was \$38,847. This average salary was approximately 6 percent (1.06) higher than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in the discipline/major rield of computer and information science after three years in the state institutions studied was 19.6 percent (\$38,847 minus \$32,485 mulls \$6,362). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 9.0 percent or an average of 3 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of computer and information science (19.6%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 2.7 percent (19.6% minus 16.9% equals 2.7%) less than faculty in the discipline/major field of computer and information science.

The reader may note that the faculty mix percentage in computer and



information science is lower at the professor rank than at the assistant professor rank in both the state studies: 0.19 vs 0.35 (1985-86) and 0.21 vs 0.35 (1988-89), respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to computer and information science in both of the state studies.

Finally, the hiring rate of new assistant professors in computer and information science in the state studies was higher than the hiring rate in ALL MAJOR FIELDS both in 1985-86, 6.7 percent (80/1,203) vs. 3.7 percent (1,932/51,525), respectively; and in 1988-89, ó.0 percent (82/1,377) vs. 4.7 percent (2,573/54,552), respectively.

# RESULTS OF THE TTO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of computer and information science was reported in 178 of the 259 private institutions. The average salary of the 619 faculty was \$30,216. This average salary was approximately 2 percent (1.02) higher than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of computer and information science was reported in 183 of the same 259 private institutions. The average salary of the 751 faculty was \$36,517. This average salary was about 4 percent (1.04) higher than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private



study.

The increase in average salaries for all faculty in computer and information science after three years in the private institutions studied was 20.9 percent (\$36,517 minus \$30,216 equals \$6,301). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 10.3 percent or 3.4 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of computer and information science (20.9%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 3 percent (20.9% minus 17.9% equals 3.0%) less than faculty in computer and information science.

In the discipline/major field of computer and information science, the reader may note that the faculty mix percentage at the professor rank is less than at the assistant professor rank in the private studies: 0.14 vs. 0.44 (1985-86), respectively; and 0.15 vs. 0.45 (1988-89), respectively. This is quite different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to computer and information science in both private studies.

Finally, the reader may note that the hiring rate of new assistant professors in computer and information science in the private studies was greater than the hiring rate in ALI. MAJOR FIELDS both in 1985-86, 7.9 percent (49/619) vs. 4.5 percent (1,204/27,049), respectively; and in 1988-89, 5.7 percent (43/751) vs. 4.8 percent (1,388/28,627), respectively.



#### CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/ major field of computer and information science and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 3,950 faculty in the discipline/major field of computer and information science participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of computer and information science is currently (1988-89) some 6 and 4 percent above the overall average faculty salaries of ALL MAJOR FIELDS for both the state and private studies, respectively. The overall average faculty salary for computer and information science in the private institutions was approximately 8 percent lower than in state institutions in the 1985-86 study. The overall salary average in the private institutions is now (1988-89) approximately 6 percent lower in comparison to that for the state institutions.

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in computer and information science, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Computer and information science faculty salaries in both the state and private institutions exceeded faculty in ALL



MAJOR FIELDS during this same period.

Third, in the discipline/major field of computer and information science the assistant professor rank has a greater percentage compared to the full professor rank for both the state and private studies. The full professor rank appears to be increasing at a greater rate in the state institutions compared to the private institutions. It seems a smaller percentage of new assistant professors are being hired in both the state and private institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in computer and information science, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Maryon Urquhart is a research analyst in the Office of Equal Opportunity Programs at Appalachian State University, Boone, North Carolina.

#### APPENDICES:



A) OVERALL LIST OF SELECTED DISCIPLINES, page 10

B) LIST OF STATE Participating Institutions, page 11

C) LIST OF PRIVATE Participating Institutions, page 13

#### APPENDIX A

# OVER.LL LIST OF SELECTED DISCHLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECCNOMICS

PHILOSOPHY AND RELIGION

CHEMISTRY

PHYSICAL EDUCATION

PHYSICAL SCIENCES

COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

COMMUNICATION TECHNOLOGIES

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

FDUCATION

SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCICLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

TOTAL: 45



#### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (√A) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College 'SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL)

Fort Hays State University (KS)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (IL) Northern State College (SD)



Northwest Missouri State University (MO) Oakland University (MI) Old Dominion University (VA) Oregon Institute of Technology (OR) Pan American University (TX) Peru State College (NB) Pittsburg State University (KS) Plymouth State College (NH) Purdue University Calumet (IN) Radford University (VA) Ramapo College of New Jersey (NJ) Richard Stockton State College (NJ) Saginaw Valley State University (MI) Salem State College (MA) Salisbury State University (MD) Sam Houston State University (TX) San Diego State University (CA) Sangamon State University (IL) Savannah State College (GA) Shippensburg University of Pennsylvania (PA) Sonoma State University (CA) South Dakota School of Mines & Technology (SD) Southeast Missouri State University (MO) Southeastern Louisiana University (LA) Southern Arkansas University (AR) Southern Connecticut State University (CT) Southern Illinois University at Edwardsville (IL) Southern Illinois University of Carbondale (IL) Southern Orange State College (OR) Southwest Missouri State University (MO) Southwest State University (MN) Southwest Texas State University (TX) Southwestern Oklahoma State University (OK) St. Cloud State University (MN) State University of New York at Plattaburgh (NY) State University of New York College at Brockport (NY) State University of New York College at Buffaly (NY) State University of New York College at Cortland (NY) State University of New York College at Fredonia (NY) State University of New York College at Genesco (NY) Stephen F. Austin State University (TX) SUNY College of Technology at Utica/Rome (NY) Tennessee Technological University (TN) Texas A & I University (TX) Texas A & H University at Galveston (TX) Towson State University (MD) Trenton State College (NJ) Troy State University (AL) University of the District of Columbia, The (DC) University of Akron, The (OH) University of Arkansas at Little Rock (AR) University of Baltimore (MD) University of Central Arkansas (AR)

University of Colorado at Colorado Springs(CO) University of Houston at Clear Lake (TX) University of Lowell (MA) University of Maine at Presque Isle (ME) University of Maryland-Baltimore County, The (MD) University of Missouri - St. Louis (MO) University of Montevallo (AL) University of Nebraska at Omaha (NE) University of Nevada at Las Vegas (NV) University of North Carolina at Charlotte (NC) University of North Carolina at Greensboro (NC) University of Northern Colorado (CO) University of Northern Iowa (IA) University of Science & Arts of Oklahoma (OK) University of South Alabama (AL) University of South Carolina at Spartanburg (SC) University of South Florida (FL) University of Southern Colorado (CO) University of Southern Indiana (IN) University of Southern Maine (ME) University of Southwestern Louisiana (LA) University of Tennessee at Chattanooga (TN) University of Tennessee at Martin (TN) University of Texas at Dallas, The (TX) University of Texas at San Antonio (TX) University of Wisconsin - Eau Claire (WI) University of Wisconsin - La Crosse (WI) University of Wisconsin - Oshkosh (WI) University of Wisconsin - Platteville (WI) University of Wisconsin - Stevens Point (WI) University of Wisconsin - Stout (WI) University of Wisconsin - Superior (WI) University of Wisconsin - Whitewater (WI) Valdosta State College (GA) Valley City State University (ND) Weber State College (UT) West Georgia College (GA) West Liberty State College (WV) West Texas State University (TX) West Virginia College of Graduate Studies (WV) Western Carolina University (NC) Western Illinois University (IL) Western Kentucky University (KY) Western Michigan University (MI) Western Montana College (MT) Western New Mexico University (NM) Western Oregon State College (OR) Western State College of Colorado (CO) Western Washington University (WA) Wichita State University, The (KS) William Paterson College (NJ) Winthrop College (SC) Youngstown State University (OH)

Total: 202



#### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

Adelphi University (NY) College of Great Falls (MT) Agnes Scott College (GA) College Misericordia (PA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) Alfred University (NY) College of Notre Dame of Maryland (MD) College of Saint Benedict (MN) Allegheny College (PA) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (NJ) Alma College (MI) College of Saint Rose, The (NY) College of St. Joseph (VT) Aiverno College (WI) American Technological University (TX) College of St. Scholastica (MN) College of the Holy Cross (MA) American University, The (DC) Amherst College (MA) Columbia College (MO) Concordia College (HI) Anna Maria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Asbury College (KY) Cooper Union for the Advancement of Sci. and Art, The (NY) Cornell College (IA) Assumption College (MA) Augustana College (IL) Cornell University (NY) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Bellarmine College (KY) Dickinson College (PA) Doane College (NE) Belmont Abbey College (NC) Bethany College (WV) Dominican College of Blavelt (NY) Drake University (IA) Bethel College (KS) Bethel College (MN) Drew University (NJ) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FL) Eckerd College (FL) Biola University (CA) Birmingham-Southern College (AL) Elmhurst College (IL) Elms College (MA) Bloomfield College (NJ) Emerson College (MA) Boston University (MA) Bradley University [L) Fairfield University (CT) Fort Wayne Bible College (IN) Briar Cliff College (IA) Bridgewater College (VA) Franklin and Marshall College (PA) Franklin Pierce College (WH) Bryant College (RI) Bucknall University (PA) Furman University (SC) George Fox College (CR) Eutler University (IN) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Catholic University of America, The (DC) Georgetown University (DC) Catholic University of Puerto Rico (PR) Georgian Court College (NJ) Cedar Crest College (PA) Gonzaga University (WA) Grand View College (IA) Central College (IA) Central Wesleyan College (SC) Greensboro College (NC) Christian Brothers College (TN) Hamiton College (NY) Clarkson University (NY) Hamline University (MN)



Hampton University (VA) Hannibal-LaGrange College (MO) Hartwick College (NY) Hastings College (NE) Heidelberg College (OH) Holy Family College (PA) Houghton College (NY) Howard University (DC) Huron College (SD) Illinois Benedictine College (IL) Illinois Institute of Technology (IL) Immaculata College (PA) Incarnate Word College (TX) Ithaca College (NY) Jarvis Christian College (TX) John Carroll University ((OH) John Hopkins University (MD) Judson College (IL) Kalamazoo College (MI) Kenyon College (OH) Keuka College (NY) LaRoche College (PA) Lafayette College (PA) Lakeland College (WI) Lancaster Bible College (PA) LeMoyne College (NY) Lebanon Valley College (PA) Lenoir-Rhyne College (NC) Lewis & Clark College (OR) Limestone College (SC) Linfield College (OR) Long Island University (NY) Loras College (1A) Loyola College in Maryland (MD) Lubbock Christian University (TX) Luther College (IA) Lyoming College (PA) Lynchburg College (VA) Madonna College (MI) Marist College (NY) Mars Hill College (NC) Mary Baldwin College (VA) Marymount College (NY) Marymount Manhattan College (NY) Maryville College (TN) Marywood College (PA) McPherson College (KS) Mercy College of Detroit (MI) Mercyhurst College (PA) Meredith College (NC) Midland Lutheran College (NE) Millikin University (IL) Millsaps College (MS)

Missouri Baptist College (MO) Moravian College (PA) Mount Mary College (WI) Mount Mercy College (IA) Mount St. Mary's College (CA) Mount Vernon College (DC) Mount Vernon Nazarene College (OH) Muskingum College (OH) Nazareth College (MI) Neumann College (PA) New England College (NH) North Central College (IL) Northland College (WI) Northwestern College (IA) Northwestern College (MN) Norwich University (VT) Jakwood College (AL) Ohio Northern University (OH) Ottawa University (KS) Our Lady of Holy Cross College (LA) Pepperdine University (CA) Piedmont College (GA) Pikeville College (KY) Presbyterian College (SC) Presbyterian School of Christian Education (VA) Principia College (IL) Quincy College (IL) Randolph-Macon College (VA) Reed College (OR) Regis College (CO) Regis College (MA) Rensselaer Polytechnic Institute (NY) Rider College (NJ) Rochester Institute of Technology (NY) Rockford College (IL) Rockhurst College (MO) Rocky Mountain College (MT) Roosevelt University (IL) Rose-Hulman Institute of Technology (IN) Russell-Sage College (NY) Saint Edward's University (TX) Saint Joseph College (CT) Saint Mary College (KS) Saint Vincent College (PA) Salem College (NC) Salem College (WV) Salve Regina -- The Newport College (RI) Samford University (AL) Santa Clara University (CA) School of the Ozarks, The (MO) Seattle Pacific University (WA) Seattle University (WA) Seton Hill (PA)



Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert Colle\_ 'II) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC) Wittenburg University (OH)

Total: 259

# SALARY-TREND STUDY OF FACULTY IN CURRICULUM AND INSTRUCTION

FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Arthur Quickenton

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including curriculum and instruction. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by A Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of curriculum and instruction in the CIP is as follows:

An instructional program that describes the theories, methods, and procedures of designing, controlling, developing, and integrating educational activities and programs.\*

[\*Gerald S. Malitz, A <u>Classification of Instructional Programs</u> (Washington, DC: National Center for Education Statistics, [1985], p. 66. 13.0301.)]

This article presents a summary of the overal, average salary increases in the discipline/major field of curriculum and instruction from the "baseline



year" of 1985-86 to a 1 including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA's STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the "baseline year" and the "trend year". Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the "baseline year" and the "trend year".

This study lists the average salaries of curriculum and instruction faculty for both state and private participating institutions by rank, including "new assistant professor," the FAC MIX PCT (Faculty Mix Percentage) and the salary factor. In addition, comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Thus, by comparing changes in faculty salaries with the CPI, a more precise representation of the "real" salary increases is yielded.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. Full-time faculty members are those who teach no less than 51 percent of the time. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary displayed is computed from all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.

The "N/IN" means the number of institutions that reported salary data for a given academic rank and discipline/major field.



The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .36 for associate professor of curriculum and instruction in the 1985-86 state study means that 36 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the ratio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 1.01 for assistant professors in the discipline/major field of curriculum and instruction in the 1985-86 state study means that their salaries are approximately 1 percent higher than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of curriculum and instruction with the entire data base for each study.

· Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make based on a simple comparison of averages.



NEW **ASSO** ASST ASST PROF PROF **PROF** PROF INSTRUCTOR ALL RANK SALARY NUM N/IN STATE, 1985-86: CURRICULUM AND INSTRUCTION AVERAGE SALARY: 36715 270 48 30950 249 45 26221 163 42 73 17 21753 19 12 31821 701 51 FAC MIX PCT: 0.39 0.36 0.23 0.03 1.00 SALARY FACTOR: 0.96 1.00 1.01 0.93 1,05 1.02 ALL MAJOR FIELDS **AVERAGE** 31074 15884 SALARY: 38112 17636 25911 14019 25065 1932 20777 3986 31282 51525 202 FAC MIX 0.34 PCT: 0.31 0.27 0.08 1.00 0.04 PUBLIC, 1988-89: CURRICULUM AND INSTRUCTION AVERAGE SALARY: 42420 226 44 36400 197 41 28971 182 41 27082 38 20 25019 46 23 35609 651 48 FAC MIX PCT: 0.35 0.30 0.28 0.06 0.07 1.00 SALARY FACTOR: 0.95 1.00 0.95 0.92 1.06 U.97 ALL MAJOR FIELDS AVERAGE SALARY: 44577 18904 36431 16110 30416 15286 29332 2573 23527 4252 36562 54552 202 FAC MIX 0.35 PCT: 0.30 0.28 0.05 0.08 1.00 PRIVATE, 1985-86: CURRICULUM AND INSTRUCTION AVERAGE SALARY: 42782 22 7 33445 42 10 24040 3 19 7 22510 20610 4 3 33161 87 13 FAC MIX PCT: 0.25 0.48 0.22 0.05 0.05 1.00 SALARY FACTOR: 1.12 1.14 1.00 0.96 1.06 1.11 ALL MAJOR FIELDS **AVERAGE** SALARY: 38230 8391 29339 8352 19473 1985 24113 8321 1204 29765 27049 259 23430 FAC MIX 0.31 PCT: 0.31 0.31 0.04 0.07 1.00 PRIVATE, 1988-89: CURRICULUM AND INSTRUCTION AVERAGE SALARY: 45753 32 7 36751 44 10 26846 35 8 29700 5 4 23369 35564 117 11 FAC MIX PCT: 0.27 0.38 0.30 0.04 0.05 1.00 SALARY FACTOR: 1.02 1.06 0.94 1.05 1.03 1.01 ALL MAJOR FIELDS **AVERAGE** SALARY: 44926 8877 34585 8852 28554 8980 28166 1388 22636 1918 35099 28627 259 FAC MIX PCT. 0.31 0.31 0.31 0.05 0.07 1.00



RESULTS OF THE TWO STATE (AASCU) STUDIES, 1985-86 AND 1988-89

In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of curriculum and instruction was reported in 51 of the 202 state (AASCU) institutions. The average salary of the 701 faculty was \$31,821. This average salary was approximately 2 percent (1.02) higher than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of curriculum and instruction was reported in 48 of the same 202 state (AASCU) institutions. The average salary of the 651 faculty was \$35,609. This average salary was 3 percent lower than (.97) the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in the discipline/major field of curriculum and instruction after three years in the state institutions studied was 11.9 percent (\$35,609 minus \$31,821 equals \$3,788). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 1.3 percent or an average of .4 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison to the discipline/major field of curriculum and instruction (11.9%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 5 percent (16.9% minus 11.9% equals 5%) more than faculty in the discipline/major field of curriculum and instruction.

The reader may note that the faculty mix percentage in curriculum and instruction is higher at the professor rank than at the assistant professor



rank in both the state studies: 0.39 vs 0.23 (1985 86) and 0.35 vs 0.28 (1988-89), respectively. The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are as follows: 0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively. In other words ALL MAJOR FIELDS has a lower percentage of professors in the 1985-86 study. However in the 1988-89 study, ALL MAJOR FIELDS has an equal percentage of professors and assistant professors as curriculum and instruction.

Finally, the hiring rate of new assistant professors in curriculum and instruction in the 1985-86 state study was slightly lower than the hiring rate in ALL MAJOR FIELDS, 3.6 percent (25/701) vs. 3.7 percent (1,932/51,525), respectively. Currently, the hiring rate in curriculum and instruction is higher than the hiring rate in ALL MAJOR FIELDS, 5.8 percent (38/651) vs. 4.7 percent (2,573/54,552), respectively.

# RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of curriculum and instruction was reported in 13 of the 259 private institutions. The average salary of the 87 faculty was \$33,161. This average salary was approximately 11 percent (1.11) higher than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of curriculum and instruction was reported in 11 of the same 259 private institutions. The average salary of the 117 faculty was \$35,564. This average salary was about 1 percent (1.01; higher than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1988-89 private study.



The increase in average salaries for all faculty in curriculum and instruction after three years in the private institutions studied was 7.2 percent (\$35,564 minus \$33,161 equals \$2,403). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is -3.4 percent or 1.1 percent each year less than the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of curriculum and instruction (7.2%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 10.7 percent (17.9% minus 7.2% equals 10.7%) more than faculty in curriculum and instruction.

In the discipline/major field of curriculum and instruction, the reader may note that the faculty mix percentage at the professor rank was higher than at the assistant professor rank in the 1985-86 private study: 0.25 vs. 0.22, respectively; but was lower in the 1988-89 private study: 0.27 vs. 0.30, respectively. The faculty mix percentage at the professor rank was equal to the assistant professor rank for ALL MAJCR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86) and 0.31 vs. 0.31 (1988-89), respectively.

Finally, the reader may note that the hiring rate of new assistant professors in curriculum and instruction in the 1985-86 private study was higher than the hiring rate in ALL MAJOR FIELDS, 4.6 percent (4/87) vs. 4.5 percent (1,204/27,049), respectively. Also, in the 1988-89 private study, the hiring rate in curriculum and instruction was less than that for ALL MAJOR FIELDS, 4.3 percent (5/117) vs. 4.8 percent (1,388/28,627), respectively.

#### CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/ major field of curriculum and instruction and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-86 through the "trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 1,556 faculty in the discipline/major field of curriculum and instruction participated and were included in the overall total of 161,753 faculty in all 45 disciplines/major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of curriculum and instruction is now some 3 percent below 1 percent above the overall average faculty salaries in ALL MAJOR FIELDS in the state and private studies, respectively. The average faculty salary for curriculum and instruction in the private institutions was approximately 4 percent more compared to that in the state institutions in 1985-86. The overall salary factor in the private institutions is now (1988-89) \$45 less in comparison to that for the state institutions(0.1%).

Second, the CPI of October 1985, in comparison to the CPT of October 1988, indicates that the faculty in curriculum and instruction, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Curriculum and instruction faculty salaries in both the state and private institutions lagged behind faculty in ALL MAJOR FIELDS



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during this same period. Curriculum and instruction faculty in both the state and privat institutions have some catching up to do in salary in comparison to their colleagues in ALL MAJOR FIELDS.

Third, in the discipline/major field of curriculum and instruction the full professor rank has a greater percentage compared to the assistant professor rank for in the state studies. In the private studies the full professor rank was much greater in comparison to the assistant professor rank in the 1985-86 study, however the opposite was true in the 1988-89 study. The assistant professor rank was greater in comparison to full professor rank. The full professor rank appears to be slightly increasing in the private institutions, whereas the full professor rank appears to be slightly decreasing in the state studies. It seems a smaller percentage of new assistant professors are being hired in the private institutions in comparison to the state institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in curriculum and instruction, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Arthur Quickenton is an associate professor of curriculum and instruction, at Appalachian State University, Boone, North Carolina.

#### APPENDICES:



A) OVERALL LIST OF SELECTED DISCIPLINES, page 10

B) LIST OF STATE Participating Institutions, page 11

C) LIST OF PRIVATE Participating Institutions, page 13

## APPENDIX A

## OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

**LETTERS** 

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

CHEMISTRY

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION

SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION

CIENCES

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FORETON LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEC .

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOG 1

VISUAL AND PERFORMING ARTS

YACTSIH

TOTAL: 45



#### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

## Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) Arkansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Missouri State University (MO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickirson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Michigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Fiorida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL)

Fort Hays State University (KS)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illinois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (LA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (IL) Northern State College (SD)



University of Colorado at Colorado Springs(CO) Northwest Missouri State University (MO) University of Houston at Clear Lake (TX) Oakland University (MI) Old Dominion University (VA) University of Lowell (MA) University of Maine at Presque Isle (ME) Oregon Institute of Technology (OR) University of Maryland-Baltimore County, The (MD) Pan American University (TX) University of Missouri - St. Louis (MO) Peru State College (NB) University of Montevallo (AL) Pittsburg State University (KS) University of Nebraska at Omaha (NE) Plymouth State College (NH) University of Nevada at Las Vegas (NV) Purdue University Calumet (IN) University of North Carolina at Charlotte (NC) Radford University (VA) University of North Carolina at Greensboro (NC) Ramapo College of New Jersey (NJ) University of Northern Colorado (CO) Richard Stockton State College (NJ) University of Northern Iowa (IA) Saginaw Valle / State University (MI) University of Science & Arts of Oklahoma (OK) Salem State College (MA) University of South Alabama (AL) Salisbury State University (MD) University of South Carolina at Spartanburg (SC) Sam Houston State University (TX) University of South Florida (FL) San Diego State University (CA) University of Southern Colorado (CO) Sangamon State University (IL) University of Southern Indiana (IN) Savannah State College (GA) University of Southern Maine (ME) Shippensburg University of Pennsylvania (PA) University of Southwestern Louisiana (LA) Sonoma State University (CA) University of Tennessee at Chattanocga (TN) South Dakota School of Mines & Technology (SD) University of Tennessee at Martin (TN) Southeast Missouri State University (MO) University of Texas at Dallas, The (TX) Southeastern Louisiana University (LA) University of Texas at San Antonio (TX) Southern Arkansas University (AR) University of Wisconsin - Eau Claire (WI) Southern Connecticut State University (CT) University of Wisconsin - La Crosse (WI) Southern Illinois University at Edwardsville (IL) University of Wisconsin - Oshkosh (WI) Southern Illinois University of Carbondale (IL) University of Wisconsin - Platteville (WI) Southern Orange State College (OR) University of Wisconsin - Stevens Point (WI) Southwest Missouri State University (MO) University of Wisconsin - Stout (WI) Southwest State University (MN) University of Wisconsin - Superior (WI) Southwest Texas State University (TX) University of Wisconsin - Whitewater (WI) Southwestern Oklahoma State University (OK) Valdosta State College (GA) St. Cloud State University (MN) Valley City State University (ND) State University of New York at Plattsburgh (NY) Weber State College (UT) State University of New York College at Brockport (NY) West Georgia College (GA) State University of New York College at Buffaly (NY) State University of New York College at Cortland (NY) West Liberty State College (WV) West Texas State University (TX) State University of New York College at Fredonia (NY) West Virginia College of Graduate Studies (WV) State University of New York College at Genesco (NY) Western Carolina University (NC) Stephen F. Austin State University (TX) Western Illinois University (IL) SUNY College of Technology at Utica/Rome (NY) Western Kentucky University (KY) Tennessee Technological University (TN) Western Michigan University (MI) Texas A & I University (TX) Western Montana College (MT) Texas A & M University at Galveston (TX) Western New Mexico University (NM) Towson State University (MD) Western Oregon State College (OR) Trenton State College (NJ) Western State College of Colorado (CO) Troy State University (AL) Western Washington University (WA) University of the District of Columbia, The (DC) Wichita State University, The (KS) University of Akron, The (OH) William Paterson College (NJ) University of Arkansas at Little Rock (AR) Winthrop College (SC) University of Baltimore (MD) Youngstown State University (OH) University of Central Arkansas (AR)

Total: 202



#### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

College of Great Falls (MT) Adelphi University (NY) College Misericordia (PA) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Allegheny College (PA) College of Saint Elizabeth (NJ) Allentown College of St. Francis de Sales (PA) College of Saint Rose, The (NY) Almá College (MI) College of St. Joseph (VT) Alverno College (WI) American Technological University (TX) College of St. Scholastica (MN) College of the Holy Cross (MA) American University, The (DC) Columbia College (MO) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Assumption College (MA) Cornell College (IA) Cornell University (NY) Augustana Collage (IL) Covenant College (TN) Averett College (YA) Creighton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Defiance College, The (OH) Baldwin-Wallace College (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College (NC) Bethany College (WV) Dominican College of Blavelt (NY) Drake University (IA) Bethel College (KS) Bethel College (MN) Drew University (NJ) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FL) Eckerd College (FL) Biola University (CA) Elmhurst College (IL) Birmingham-Southern College (AL) Bloomfield College (NJ) Elms College (MA) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce Coilege (NH) Bryant College (RT) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabini College (PA) Georgetown College (KY) Carlow College (PA) Catholic University of America, The (DC) Georgetown University (DC) Georgian Court College (NJ) Catholic University of Puerto Rico (PR) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Greensboro College (NC) Central Wesleyan College (SC) Christian Brothers College (TN) Hamilton College (NY) Hamline University (MN) Clarkson University (NY)



Missouri Baptist College (MO) Hampton University (VA) Moravian College (PA) Hannibal-LaGrange College (MO) Mount Mary College (WI) Hartwick College (NY) Mount Mercy College (IA) Hastings College (NE) Mount St. Mary's College (CA) Heidelberg College (OH) Mount Vernon College (DC) Holy Family College (PA) Mount Vernon Nazarene College (OH) Houghton College (NY) Muskingum College (OH) Howard University (DC) Nazareth College (MI) Huron College (SD) Neumann College (PA) Illinois Benedictine College (IL) New England College (NH) Illinois Institute of Technology (IL) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Northwestern College (IA) Ithaca College (NY) Northwestern College (MN) Jarvis Christian College (TX) Norwich University (VT) John Carroll University ((OH) Oakwood College (AL) John Hopkins University (MD) Ohio Northern University (OH) Judson College (IL) Ottawa University (KS) Kalamazoo College (MI) Our Lady of Holy Cross College (LA) Kenyon College (OH) Pepperdine University (CA) Keuka College (NY) Predmont College (GA) LaRoche College (PA) Pikeville College (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Presbyterian School of Christian Education (VA) Lancaster Bible College (PA) Principia College (IL) LeMoyne College (NY) Quincy College (IL) Lebanon Valley College (PA) Randolph-Macon College (VA) Lenoir-Rhyne College (NC) Reed College (OR) Lewis & Clark College (OR) Regis College (CO) Limestone College (SC) Regis College (MA) Linfield College (OR) Rensselaer Polytechnic Institute (NY) Long Island University (NY) Rider College (NJ) Loras College (IA) Rochester Institute of Technology (NY) Loyola College in Maryland (MD) Rockford College (IL) Lubbock Christian University (TX) Rockhurst College (MO) Luther College (IA) Rocky Mountain College (MT) Lyoming College (PA) Roosevelt University (IL) Lynchburg College (VA) Rose-Hulman Institute of Technology (IN) Madonna College (MI) Russell-Sage College (NY) Marist College (NY) Saint Edward's University (14) Mars Hill College (NC) Saint Joseph College (CT) Mary Baldwin College (VA) Saint Mary College (KS) Marymount College (NY) Saint Vincent College (PA) Marymount Manhattan College (NY) Salem College (NC) Maryville College (TN) Salem College (WV) Marywood College (PA) Salve Regina -- The Newport College (RI) McPherson College (KS) Samford University (AL) Mercy College of Detroit (MI) Santa Clara University (CA) Mercyhurst College (PA) School of the Ozarks, The (MO) Meredith College (NC) Seattle Pacific University (WA) Midland Lutheran College (NE) Seattle University (WA) Millikin University (IL) Seton Hill (PA) Millsars College (MS)



Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC) Wittenburg University (OH)

Total: 259



# SALARY-TREND STUDY OF FACULTY IN DRAMATIC ARTS

FOR THE YEARS

1985-86 AND 1988-89

By Richard D. Howe and Maryon Urquhart

Since 1982-83 the College and University Personnel Association (CUPA) in Washington, D.C., in cooperation with Appalachian State University in Boone, North Carolina, has conducted annual national faculty salary studies by discipline and rank each year through 1988-89. Each year two separate studies are conducted, one for state senior colleges and universities which are members of the American Association of State Colleges and Universities (AASCU) in Washington, D.C., and the other for private senior colleges and universities. The list of private institutions is provided by the American Council on Education in Washington, D.C.

Salary data for each study were collected and tabulated for full-time teaching faculty in 45 selected academic disciplines including dramatic arts. The disciplines were chosen from among those defined by the Higher Education General Information Study (HEGIS) Taxonomy and by A Classification of Instructional Programs (CIP), 1985. The definition of the discipline/major field of dramatic arts in the CIP is as follows:

An instructional program that describes the development, theory, and processes of creating live performances through human expressive modalities.\*

\*Gerald S. Malitz, A Classification of Instructional Programs (Washington, DC.: National Center for Education Statistics, [1985], p. 158.--50.0501.)]

This article presents a summary of the overall average salary increases in the discipline/major field of dramatic arts from the "baseline year" of 1985-86



to and including the "trend year" of 1988-89 for both state and private institutions. Of the 262 institutions which participated in CUPA's STATE (AASCU) study of 1985-86, 202 also participated in 1988-89. Data from those same 202 institutions were used in both the "baseline year" and the "trend year". Of the 440 institutions which participated in CUPA'S PRIVATE study of 1985-86, 259 also participated in 1988-89. Data from those same 259 institutions were used in both the "baseline year" and the "trend year".

This study lists the average salaries of dramatic arts faculty for both state and private participating institutions by rank, including "new assistant professor," the FAC MIX PCT (Faculty Mix Percentage) and the salary factor. In addition, comparisons are made with the CPI (Consumer Price Index) of changes in cost-of-living between the two studies for each of the two study years (1985-86 and 1988-89).

The CPI is based on prices of food, clothing, shelter and fuels, transportation, medical care, entertainment, and other goods and services that people buy for day-to-day living. In examining trends in faculty salary it is important to consider any changes in the economy. Thus, by comparing changes in faculty salaries with the CPI, a more precise representation of the "real" salary increases is yielded.

The salary is based on a nine- or ten-month academic year salary of full-time faculty only. Full-time faculty members are those who teach no less than 51 percent of the time. Salary for summer academic work, fringe benefits, and perquisites are not included in the salary data. The average salary displayed is computed from all faculty salaries reported for a given rank and discipline.

The "NUM" means the number of faculty members whose salaries were included to compute the average salary.

The "N/IN" means the number of institutions that reported salary data for a given academic rank and discipline/major field.



The FAC MIX PCT is the percentage of faculty in a given discipline/major field who hold a given academic rank. For example, a FAC MIX PCT factor of .28 for associate professor of dramatic arts in the 1985-86 state study means that 28 percent of the faculty in that discipline/major field hold the rank of associate professor.

The SALARY FACTOR for a given rank of a given discipline/major field is the latio of the average salary to the total average salary of all institutions in each of the four studies: STATE 1985-86, STATE 1988-89, PRIVATE 1985-86 and PRIVATE 1988-89. For example, a SALARY FACTOR of 0.90 for assistant professors in the discipline/major field of dramatic arts in the 1985-86 state study means that their salaries are 10 percent lower than the average of all assistant professors in all institutions in that study.

NEW ASST PROF is the grouping of assistant professors who were hired for the first time in the fall of the study year (1985-86 or 1988-89). All information for this group was included in the ASST PROF group for reporting purposes. This group is used mainly for new hiring information.

ALL MAJOR FIELDS is the entire data base for all 45 disciplines/major fields in each of the four studies. It is used to compare, among other things, the discipline/major field of dramatic arts with the entire data base for each study.

Of particular import to the reader is noting the size of the sample on which each percentage or dollar value is based. The smaller the number in the group, the greater the effect of extreme scores on a descriptive statistic such as the average. It should be noted also that any large disparity in the sample sizes between the "baseline year" of 1985-86 and the "trend year" of 1988-89 will lessen the reliability and validity of any conclusions that one might make based on a simple comparison of averages.



NEW ASST **ASST** ASS0 INSTRUCTOR PRCF PROF PROF ALL RANKS SALARY NUM N/IN DRAMATIC ARTS STATE, 1985-86: AVERAGE 35 26 19554 48 30 29112 639 116 SALARY: 37937 190 88 23413 221 88 21287 29343 180 85 FAC MIX 0.08 1.00 0.05 0.35 0.28 PCT: SALARY 0.85 0.94 0.93 0.90 0.94 FACTOR: 1.00 ALL MAJOR FIELDS AVERAGE 20777 3986 31282 51525 202 25911 14019 25065 1932 31074 15884 SALARY: 38112 17636 FAC MIX 0.08 1.00 0.31 0.27 0.04 0.34 PCT: DRAMATIC ARTS STATE, 1988-89 AVERAGE 22290 30 23 33849 679 114 26945 228 92 25263 50 35 SALARY: 43297 209 85 33598 212 87 FAC MIX 0.04 1.00 0.07 0.34 0.31 0.31 PCT: SALARY 0.95 0.93 0.86 0.89 FACTOR: 0.97 0.92 ALL MAJOR FIELDS AVERAGE 23527 4252 36562 54552 202 30416 15286 29332 2573 36431 16110 SALARY: 44577 18904 FAC MIX 0.08 1.00 0.05 0.35 0.28 PCT: DRAMATIC ARTS PRIVATE, 1985-86: AVERAGE 34 27 19340 42 32 26789 419 124 22661 155 79 20804 27674 135 77 SALARY: 36367 45 FAC MIX 0.08 0.10 1.00 0.37 0.21 0.32 PCT: SALARY 0.89 0.99 0.90 FACTOR: 0.95 0.94 0.94 ALL MAJOR FIELDS AVERAGE 23430 1204 19473 1985 29765 27049 259 SALARY: 38230 8391 29339 8352 24113 8321 FAC MIX 0.04 0.07 1.00 0.31 0.31 PCT: 0.31 DRAMATIC ARTS PRIVATE, 1988-89: AVERAGE 17 14 23142 40 30 30975 437 130 26184 170 91 23993 SALARY: 40878 32520 134 70 93 56 FAC MIX 0.39 0.04 0.09 1.00 0.31 0.21 PCT: SALARY 1.02 0.88 0.94 0.92 0.85 FACTOR: 0.91 ALL MAJOR FIELDS AVERAGE 22636 1918 35099 28627 259 28166 1388 28554 8980 SALARY: 44926 8877 34585 8852 FAC MIX 0.05 0.07 1.00 0.31 0.31 0.31 PCT:



In the STATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of dramatic arts was reported in 116 of the 202 state (AASCU) institutions. The average solary of the 639 faculty was \$29,112. This average salary was approximately 7 percent (0.93) lower than the average salary of \$31,282 for all 51,525 faculty in ALL MAJOR FIELDS in the 1985-86 state study.

In the STATE 1988-89 salary study in the above table, the discipline/major field of dramatic arts was reported in 114 of the same 202 state (AASCU) institutions. The average salary of the 679 faculty was \$33,849. This average salary was approximately 7 percent (0.93) lower than the average salary of \$36,562 for all 54,552 faculty in ALL MAJOR FIELDS in the 1988-89 state study.

The increase in average salaries for all faculty in dramatic arts after three years in the state institutions studied was 16.3 percent (\$33,849 minus \$29,112 equals \$4,737). The CPI of increased cost-of-living between October 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore, in average faculty salaries over the three-year time period is 5.7 percent or an average of 1.9 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MAJOR FIELDS after three years in the state institutions studied was 16.9 percent (\$36,562 minus \$31,282 equals \$5,280). In comparison therefore, the faculty in the discipline/major field of dramatic arts increased their salaries by 0.6% less, than the faculty in ALL MAJOR FIELDS (16.9% minus 16.3% equals 0.6%).

The reader may note that the faculty mix percentage in dramatic arts is lower at the professor rank than at the assistant professor rank in both the state studies: 0.30 vs 0.35 (1985-86) and 0.31 vs 0.34 (1988-89), respectively.

The differences in faculty mix percentage at the ranks of professor and assistant professor in ALL MAJOR FIELDS for both state studies are as follows:



0.34 vs. 0.27 (1985-86) and 0.35 vs. 0.28 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to dramatic arts in both of the state studies.

Finally, the hiring rate of new assistant professors in dramatic arts is high in the state studies: 5.5 percent (35/639) in 1985-86 vs. 3.7 percent (1,932/51,525) in ALL MAJOR FIELDS in 1985-86. Also, the hiring rate of new assistant professors in dramatic arts in 1988-89 was 7.4 percent (50/679) vs. 4.7 percent (2,573/54,552) in ALL MAJOR FIELDS that same year. In other words the hiring rate in the discipline/major field of dramatic arts is more than for ALL MAJOR FIELDS in both of the state studies.

# RESULTS OF THE TWO PRIVATE STUDIES, 1985-86 AND 1988-89

In the PRIVATE 1985-86 salary study in the above table, the reader may note that the discipline/major field of dramatic arts was reported in 124 of the 259 private institutions. The average salary of the 419 faculty was \$26,789. This average salary was approximately 10 percent (0.90) lower than the average salary of \$29,765 for all 27,049 faculty in ALL MAJOR FIELDS in the 1985-86 private study.

In the PRIVATE 1988-89 salary study in the above table, the discipline/major field of dramatic arts was reported in 130 of the same 259 private institutions. The average salary of the 437 faculty was \$30,975. This average salary was approximately 12 percent (0.88) lower than the average salary of \$35,099 for all 28,627 faculty in ALL MAJOR FIELDS in the 1938-89 private study.

The increase in average salaries for all faculty in dramatic arts after three years in the private institutions studied was 15.6 percent (\$30,975 minus \$26,789 equals \$4,186). The CPI of increased cost-of-living between clober 1985 and October 1988 was 10.6 percent. A more realistic increase, therefore,



in average faculty salaries over the three-year time period is 5 percent or approximately 1.6 percent each year above the cost-of-living.

The increase in average salaries for all faculty in ALL MinJOR FIELDS after three years in the private institutions studied was 17.9 percent (\$35,099 minus \$29,765 equals \$5,334). In comparison to the discipline/major field of dramatic arts (15.6%), therefore, the faculty in ALL MAJOR FIELDS increased their salaries by 2.3 percent (17.9% minus 15.6% equals 2.3%) more than faculty in the discipline/major field of dramatic arts.

In the discipline/major field of dramatic arts, the reader may note that the faculty mix percentage at the professor rank is less than at the assistant professor rank in the private studies: 0.21 vs. 0.37 (1985-86), respectively; and 0.21 vs. 0.39,(1988-89), respectively. This is quite different from ALL MAJOR FIELDS for both private studies: 0.31 vs. 0.31 (1985-86), respectively; and 0.31 vs. 0.31 (1988-89), respectively. In other words ALL MAJOR FIELDS has a higher percentage of professors and a lower percentage of assistant professors compared to dramatic arts in both private studies.

Finally, the reader may note that the hiring rate of new assistant professors in dramatic arts in the 1985-86 private study was higher than the hiring rate in ALL MAJOR FIELDS, 8.1 percent (34/419) vs. 4.5 percent (1,204/27,049), respectively. However, in the 1988-89 state study the hiring rate of new assistant professors in dramatic arts was less than that in ALL MAJOR FIELDS, 3.9 percent (17/437) vs. 4.8 percent (1,388/28,627), respectively.

#### CONCLUDING REMARKS

This article presented salary-trend information on the academic discipline/major field of dramatic arts and compared that information with ALL MAJOR FIELDS over a period of three years: the "baseline year" of 1985-36 through the



"trend year" of 1988-89. Two studies, one for state (AASCU) institutions, and the other for private institutions were conducted for the baseline year and for the trend year—a total of four studies. A total of 2,174 faculty in the discipline/major field of dramatic arts participated and were included in the overall total of 161,753 faculty in all 45 disciplines/ major fields in all four studies. The same 202 state (AASCU) institutions and the same 259 private institutions in the United States participated in the baseline year and the trend year.

Although many interpolations and extrapolations of the data may be made, a few of the more important ones are as follows. First, the average faculty salary in the discipline/major field of dramatic arts is currently (1°88-89) some 7 and 12 percent below the overall average faculty salary of ALL MAJOR FIELDS for both the state and private studies, respectively. The average faculty salary for dramatic arts in the private institutions approximately 9 percent less in comparison to that in the state institutions in 1985-86. The overall faculty salary average in the private institutions is now (1988-89) 9 percent less in comparison to that for the state institutions.

Second, the CPI of October 1988, in comparison to the CPI of October 1985, indicates that the faculty in dramatic arts, in both the state and private institutions, received overall salary increases for three years above the cost-of-living. Dramatic arts faculty salaries in the state institutions lagged slightly behind faculty in ALL MAJOR FIELDS during this same period, but is somewhat ahead in the private institutions.

Third, in the discipline/major field of dramatic arts the assistant professor rank has a greater percentage compared to the full professor rank for both the state and private studies. The full professor rank appears to be increasing at a faster rate in the state institutions, compared to the private institutions. It seems a higher percentage of new assistant professors are being hired



in the state institutions in comparison to the private institutions.

Now that a rather significant data base on individual faculty member salaries has been developed, it is anticipated that additional salary-trend studies will be effected in dramatic arts, and in other disciplines/major fields, on an annual basis.

Richard D. Howe is the originator and director of the annual CUPA faculty salary studies. He is a professor of leadership and higher education, and history at Appalachian State University, Boone, North Carolina. Co-author Maryon Urquhart is a research analyst in the Office of Equal Opportunity Programs at Appalachian State University, Boone, North Carolina.

#### APPENDICES:

- A) OVERALL LIST OF SELECTED DISCIPLINES, page 10
- B) LIST OF STATE Participating Institutions, page 11
- C) LIST OF PRIVATE Participating Institutions, page 13



# APPENDIX A

#### OVERALL LIST OF SELECTED DISCIPLINES

ACCOUNTING

HOME ECONOMICS

AGRIBUSINESS AND AGRICULTURAL PRODUCTION

LETTERS

ANTHROPOLOGY

LIBRARY AND ARCHIVAL SCIENCES

ARCHITECTURE AND ENVIRONMENTAL DESIGN

LIFE SCIENCES

AREA AND ETHNIC STUDIES

MATHEMATICS

AUDIOLOGY AND SPEECH PATHOLOGY

MULTI-INTERDISCIPLINARY STUDIES

BUSINESS ADMINISTRATION AND MANAGEMENT

MUSIC

BUSINESS AND MANAGEMENT

NURSING

BUSINESS ECONOMICS

PHILOSOPHY AND RELIGION

CHEMISTRY

PHYSICAL EDUCATION

COMMUNICATION TECHNOLOGIES

PHYSICAL SCIENCES

COMMUNICATIONS

PHYSICS

COMPUTER & INFORMATION SCIENCES

POLITICAL SCIENCE AND GOVERNMENT

CURRICULUM AND INSTRUCTION

PSYCHOLOGY

DRAMATIC ARTS

READING EDUCATION

EDUCATION

SECRETARIAL AND RELATED PROGRAMS

EDUCATION ADMINISTRATION

SOCIAL SCIENCES

ENGINEERING

SOCIOLOGY

FINE ARTS

SPECIAL EDUCATION

FOREIGN LANGUAGES

STUDENT COUNSELING AND PERSONNEL

SERVICES

GEOGRAPHY

TEACHER EDUCATION, GENERAL PROGRAMS

GEOLOGICAL SCIENCES

VISUAL AND PERFORMING ARTS

HISTORY

TOTAL: 45

#### APPENDIX B

CUPA State (AASCU) Faculty Salary-Trend Studies: 1985-86 and 1988-89

### Institutions Participating in Both Studies:

Adams State College (CO) Alabama State University (AL) Angelo State University (TX) Appalachian State University (NC) Arkansas State University (AR) : kansas Technological University (AR) Auburn University at Montgomery (AL) Augusta College (GA) Blackhills State College (SD) Bluefield State College (WV) California State University at Fullerton (CA) California State University at Long Beach (CA) California State University at Stanislaus (CA) California University of Pennsylvania (PA) Castleton State College (VT) Central Connecticut State University (CT) Central Michigan University (MI) Central Hissouri State University (HO) Central State University (OK) Central Washington University (WA) Christopher Newport College (VA) Citadel, The Military College of S.C., The (SC) Clarion University of Pennsylvania (PA) Cleveland State University (OH) Clinch Valley College of Univ. of Virginia (VA) College of Charleston (SC) College of Staten Island - CUNY, The (NY) Columbus College (GA) Concord College (WV) Dakota State College (SD) Delta State College (MS) Dickinson State University (SD) East Central State University (OK) East Stroudsburg University (PA) East Texas State University (TX) East Texas State University at Texarkana (TX) Eastern Connecticut State University (CT) Eastern Illinois University (IL) Eastern Kentucky University (KY) Eastern Hichigan University (MI) Eastern New Mexico University (NM) Eastern Washington University (WA) Edinsboro University of Pennsylvania (PA) Fitchburg State College (MA) Florida A & M University (FL) Florida Atlantic University (FL) Florida International University (FL) Fort Hays State University (KS)

Fort Lewis College (CO) Francis Marion College (SC) Frostburg State University (MD) George Mason University (VA) Georgia College (GA) Georgia Southern College (GA) Georgia Southwestern College (GA) Glenville State College (WV) Grand Valley State University (MI) Harris-Stowe State College (MO) Humacao University College (PR) Idaho State University (ID) Illipois State University (IL) Indiana State University (IN) Indiana University of Pennsylvania (PA) Jackson State University (MS) Keene State University (NH) Kent State University (OH) Kutztown University (PA) Lake Superior State University (MI) Lander College (SC) Lewis Clark State College (ID) Livingston University (AL) Longwood College (VA) Louisiana State University in Shreveport(LA) Marshall University (WV) Mary Washington College (VA) Mayville State University (ND) McNeese State University (IA) Memphis State University (TN) Mesa State College (CO) Metropolitan State College (CO) Middle Tennessee State University (TN) Millersville University of Pennsylvania (PA) Minot State University (ND) Missouri Southern State College (MO) Missouri Western State College (MO) Morehead State University (KY) Murray State University (KY) New Mexico Highlands University (NM) Nicholls State University (LA) North Carolina A & T State University (NC) Northeast Louisiana University (LA) Northeast Missouri State University (MO) Northeastern Illinois University (IL) Northern Arizona University (AZ) Northern Illinois University (In) Porthern State College (SD)



Northwest Missouri State University (MO) University of the District of Columbia, The (DC) University of Houston at Clear Lake (TX) Oakland University (MI) University of Lowell (MA) Old Dominion University (VA) University of Maine at Presque Isle (ME) Oregon Institute of Technology (OR) University of Maryland-Baltimore County, The (MD) Tan American University (TX) University of Missouri - St. Louis (MO) Peru State College (NB) University of Montevallo (AL) Pittsburg State University (KS) University of Nebraska at Omaha (NE) Plymouth State College (NH) Purdue University Calumet (IN) University of Nevada at Las Vegas (NV) University of North Carolina at Charlotte (NC) Radford University (VA) University of North Carolina at Greensboro (NC) Ramapo College of New Jersey (NJ) University of Northern Colorado (CO) Richard Stockton State College (NJ) University of Northern Iowa (IA) Saginaw Valley State University (MI) University of Science & Arts of Oklahoma (OK) Salem State College (MA) University of South Alabama (AL) Salisbury State University (MD) University of South Carolina at Spartanburg (SC) Sam Houston State University (TX) University of South Florida (FL) San Diego State University (CA) University of Southern Colorado (CO) Sangamon State University (IL) University of Southern Indiana (IN) Savannah State College (GA) University of Southern Maine (ME) Shippensburg University of Pennsylvania (PA) University of Southwestern Louisiana (LA) Sonoma State University (CA) South Dakota School of Miles & Technology (SD) University of Tennessee at Chattanooga (TN) University of Tennessee at Martin (TN) Southeast Missouri State University (MO) Southeastern Louisiana University (LA) University of Texas at Dallas, The 'TX) University of Texas at San Antonio (TX) Southern Arkansas University (AR) University of Wisconsin - Lau Claire (WI) Southern Connecticut State University (CT) Southern Illinois University at Edwardsville (IL) University of Wisconsin - La Crosse (WI) University of Wisconsin - Oshkosh (WI) Southern Illinois University of Carbondale (IL) University of Wisconsin - Platteville (WI) Southern Orange State College (OR) Southwest Missouri State University (MO) University of Wisconsin - Stevens Point (WI) University of Wisconsin - Stout (WI) Southwest State University (MN) University of Wisconsin - Superior (WI) Southwest Texas State University (TX) University of Wisconsin - Whitewater (WI) Southwestern Oklahoma State University (OK) Valdosta State College (GA) St. Cloud State University (MN) State University of New York at Plattsburgh (NY) Valley City State University (ND) State University of New York College at Brockport (NY) Weber State College (UT) State University of New York College at Buffalo (NY) West Georgia College (GA) West Liberty State College (WV) State University of New York Coilese at Cortland (NY) State University of New York College at Fredonia (NY) West Texas State University (TX) State University of New York College at Genesco (NY) West Virginia College of Graduate Studies (WV) Western Carolina University (NC) Stephen F. Austin State University (TX) SUNY College of Technology at Utica/Rome (NY) Western Illinois University (IL) Tennessee Technological University (TN) Western Kentucky University (KY) Western Michigan University (MI) Texas A & I University (TX) Texas A & M University at Galveston (TX) Western Montana College (MT) Western New Mexico University (NM) Towson State University (MD) Western Oregon State College (OR) Trenton State College (NJ) Western State College of Colorado (CO) Troy State University (AL) Western Washington University (WA) University of Akron, Tne (OH) University of Arkansas at Little Rock (AR) Wichita State University, The (KS) William Paterson College (NJ) University of Baltimore (MD) Winthrop College (SC) University of Central Arkansas (AR) University of Colorado at Colorado Springs(CO) Youngstown State University (OH)

Total: 202



#### APPENDIX C

CUPA Private Faculty Salary-Trend Studies: 1985-86 and 1988-89

Institutions Participating in Both Studies:

College Misericordia (PA) Adelphi University (NY) College of Great Falls (MT) Agnes Scott College (GA) College of Mount St. Joseph (OH) Albertus Magnus College (CT) College of Notre Dame of Maryland (MD) Alfred University (NY) College of Saint Benedict (MN) Allegheny College (PA) Allentown College of St. Francis de Sales (PA) College of Saint Elizabeth (NJ) College of St. Joseph (VT) Alma College (MI) College of Saint Rose, The (NY) Alverno College (WI) College of St. Scholastica (MN) American Technological University (TX) College of the Holy Cross (MA) American University, The (DC) Columbia C .lege (MO) Amherst College (MA) Concordia College (MI) Anna Maria College (MA) Concordia College (MN) Aquinas College (MI) Concordia College (WI) Arkansas College (AR) Cooper Union for the Advancement of Sci. and Art, The (NY) Asbury College (KY) Cornell College (IA) Assumption College (MA) Cornell University (NY) Augustana College (IL) Covenant College (TN) Averett College (VA) Creighton University (NE) Avila College (MO) D'Youville College (NY) Azusa Pacific University (CA) Baldwin-Wallace College (OH) Defiance College, The (OH) DePaul University (IL) Barnard College (NY) DePauw University (IN) Barry University (FL) Dickinson College (PA) Bellarmine College (KY) Doane College (NE) Belmont Abbey College NC) Dominican College of Blavelt (NY) Bethany College (WV) Drake University (IA) Bethel College (KS) Drew University (NJ) Bethel College (MN) Eastern Mennonite College and Seminary (VA) Bethune-Cookman College (FL) Eckerd College (FL) Biola University (CA) Elmhurst College (IL) Birmingham-Southern College (AL) Elms College (MA) Bloomfield College (NJ) Emerson College (MA) Boston University (MA) Fairfield University (CT) Bradley University (IL) Fort Wayne Bible College (IN) Briar Cliff College (IA) Franklin and Marshall College (PA) Bridgewater College (VA) Franklin Pierce College (NH) Bryant College (RI) Furman University (SC) Bucknall University (PA) George Fox College (OR) Butler University (IN) George Washington University, The (DC) Cabrini College (PA) Georgetown College (KY) Carlow College (PA) Georgetown University (DC) Catholic University of America, The (DC) Catholic University of Puerto Rico (PR) Georgian Court College (MJ) Gonzaga University (WA) Cedar Crest College (PA) Grand View College (IA) Central College (IA) Central Wesleyan College (SC) Greensboro College (NC) Hamilton College (NY) Christian Brothers College (TN) Hamline University (MN) Clarkson University (NY)



Hampton University (VA) Missouri Baptist College (MO) Hannibal-LaGrange College (MO) Moravian College (PA) Hartwick College (NY) Mount Mary College (WI) Hastings College (NE) Mount Mercy Coilege (IA) Heidelberg College (OH) Mount St. Mary's College (CA) Holy Family College (PA) Mount Vernon College (DC) Mount Vernon Nazarene College (OH) Houghton College (NY) Howard University (DC) Muskingum College (OH) Huron College (SD) Nazareth College (MI) Neumann College (PA) Illinois Benedictine College (IL) Illinois Institute of Technology (IL) New England College (NH) North Central College (IL) Immaculata College (PA) Northland College (WI) Incarnate Word College (TX) Ithaca College (NY) Northwestern College (IA) Jarvis Christian College (TX) Northwestern College (MN) John Carroll University ((OH) Norwich University (VT) Johns Hopkins University (MD) Oakwood College (AL) Judson College (IL) Ohio Northern University (OH) Kalamazoo College (MI) Ottawa University (KS) Our Lady of Holy Cross College (LA) Kenyon College (OH) Keuka College (NY) Pepperdine University (CA) Piedmont College (GA) LaRoche College (PA) Pikevil<sup>1</sup> College (KY) Lafayette College (PA) Presbyterian College (SC) Lakeland College (WI) Lancaster Bible College (FA) Presbyterian School of Christian Education (VA) Lebanon Valley College (PA) Principia College (IL) Quincy College (IL) LeMoyne College (NY) Lenoir-Rhyne College (NC) Randolph-Macon College (VA) Lewis & Clark College (OR) Reed College (OR) Limestone College (SC) Regis College (CO) Regis College (MA) Linfield College (OR) Long Island University (NY) Rensselaer Polytechnic Institute (NY) Rider College (NJ) Loras College (IA) Loyola Coilege in Maryland (MD) Rochester Institute of Technology (NY) Lubbock Christian University (TX) Rockford College (IL) Luther College (IA) Rockhurst College (MO) Lynchburg College (VA) Rocky Mountain College (MT) Roosevelt University (IL) Lyoming College (PA) Rose-Hulman Institute of Technology (IN) Madonna College (MI) Russell-Sage College (NY) Marist College (NY) Mars Hill College (NC) Saint Edward's University (TX) Mary Baldwin College (VA) Saint Joseph College (CT) Marymount College (NY) Saint Mary College (KS) Marymount Manhattan College (NY) Saint Vincent College (PA) Maryville College (TN) Salem College (NC) Marywood College (PA) Salem College (WV) Salve Regina -- The Newport College (RI) McPherson College (KS) Samford University (AL) Mercy College of Detroit (MI) Mercyhurst College (PA) Santa Clara University (CA) School of the Ozarks, The (MO) Meredith College (NC) Midland Lutheran College (NE) Seattle Pacific University (WA) Seattle University (WA) Millikin University (IL) Millsaps College (MS) Seton Hill (PA)



Siena College (NY) Siena Heights College (MI) Simpson College (IA) Southwestern Assemblies of God Colleges (TX) Spalding University (NY) Springfield College (MA) St. Bonaventure University (NY) St. Francis College (NY) St. Mary's University (TX) St. Norbert College (WI) Stevens Institute of Technology (NJ) Stillman College (AL) Suffolk University (MA) Susquehanna University (PA) Tabor College (KS) Taylor University (IN) Texas Christian University (TX) Texas Lutheran College (TX) Tiffin University (OH) Tri-State University (IN) Trinity College Inc. (VT) Trinity University (TX) Tulane University (LA) University of Dallas, The (TX) University of Dayton (OH) University of Detroit (MI) University of Evansville (IN) University of LaVerne (CA)

University of Miami (FL) University of Portland (OR) University of Richmond (VA) University of San Diego (CA) University of St. Thomas (TX) University of the South, The (TN) University of Tampa, (FL) Ursuline College (OH) Valparaiso University (IN) Villa Maria College (PA) Viterbo College (WI) Walsh College (OH) Warner Southern College (FL) Wartburg College (IA) Washington and Jefferson College (PA) Washington and Lee University (VA) Waynesburg College (PA) West Virginia Wesleyan College (WV) Western Baptist College (OR) Western Maryland College (MD) Westmar College (IA) Westminister College of Salt Lake City (UT) Whitman College (WA) Wilkes College (PA) William Jewell College (MO) William Penn College (IA) Wilmington College (DE) Wingate College (NC)

Wittenburg University (OH)

Total: <u>259</u>

