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**ABSTRACT**

An exchange program was conducted between the Arlington, Virginia, elementary and middle school educators and the city's business/industry/community in order to increase educators' knowledge of local business developments and for employers to identify competencies needed in their businesses. Educators as well as business persons were contacted during the approximately 7-month project to solicit their participation, and educators were scheduled for five or six visits to various businesses. In addition, educators completed surveys indicating their responses to the visits, and evaluation presentations of the visits were made to the Arlington Chamber of Commerce and the public school administrators. The primary accomplishment of the project was the educators' stated intention to use the knowledge they gained from business visits in their classrooms. In addition, the business community developed an understanding of the processes and needs of education. The project was positively received by all of the educators and businesses involved as well as by the Chamber of Commerce. The program will be refined and continued with support by the school system.  
(Author/KC)

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ED 274 859

Final Report

Arlington Elementary and Middle School Business/Industry/Education Exchange

Guidance

Conducted Under

Carl D. Perkins Vocational Education Act

Public Law 98-524

Sue Evans

Arlington Public Schools  
Arlington Career Center  
816 South Walter Reed Drive  
Arlington, Virginia 22204

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## 5. ABSTRACT

a. Title of Project: Arlington Elementary and Middle School  
Business/Industry/Education Exchange

b. Time Period: September 1, 1985 - April 15, 1986

c. Goals and Objectives of the Project: (1) To conduct a series of 5-6 business/industry/education exchange visitations in collaboration with the Arlington Chamber of Commerce and the Arlington County Division of Economic Development. (2) To increase educators knowledge of present and projected local economic development patterns, occupational structures, workforce characteristics, and opportunities for entry-level employment. (3) To provide first hand opportunities for employers to identify desirable employee work habits and attitudes and basic communication, academic, and technical competencies necessary for job success and career advancement. (4) To increase vocational/career awareness, orientation, and exploration knowledge of educators. (5) To provide opportunities for educators to observe actual work environments or procedures.

d. Procedures followed: (1) The Arlington Public School Administrators and Educators were contacted to determine their interest and to gain their support. (2) The Arlington Chamber of Commerce, Educational Committee was contacted to acquire their participation. (3) The Arlington County Office of Economic Development was contacted for their participation. (4) Arlington businesses were contacted to solicit their participation. (5) Educators were scheduled to visit businesses. (6) Educators completed surveys indicating their response to their visits as well as the knowledge they gained. (7) Follow-up, evaluation presentations of the visits were made to the Chamber of Commerce and the Arlington Public School Administrators.

e. Results; Accomplishments: The primary accomplishment of this Project was the educator participants' stated intention to use the knowledge they gained from business visits. Of the educators surveyed, 96.7 percent planned to adapt this knowledge to their classroom instruction in a concentrated effort to prepare students for the business world. The major outcome was achieved through the educators' new awareness of the needs of the business world. By communicating with business personnel and visiting business sites, the educators gained knowledge of the demographics of Arlington business and industry, awareness of employment attitudes desired by business, and enthusiasm for working cooperatively with business in educating students. In addition, the business community developed an understanding of the processes and needs of education.

f. Evaluations: The project was positively received by the Arlington Public Schools administrators, educators, Arlington Chamber of Commerce and Arlington business and industries. The visits need to be spaced further apart and some of the evaluation tools need to be revised.

g. Conclusions and Recommendations: The project was very successful and met its stated objectives. This activity will become supported by the school system.

## ARLINGTON ELEMENTARY AND MIDDLE SCHOOL BUSINESS/INDUSTRY/EDUCATION EXCHANGE

### b. Problem Area Addressed Through Project

The divisive impacts of accelerating technological advances, shifting demographics, and public policy change on the worlds of work and school are documented in the reports, Nation at Risk, compiled by the National Commission on Excellence in Education and High Schools and the Changing Workplace compiled by the Panel on Secondary School Education for the Changing Workplace. In addition, the recently-published report of the committee for Economic Development, Investing in our Children, places the blame for American inability to compete in the world market on America's technologically-lacking educational system

At the extreme, business demands new technologies, new techniques, and new terms. Education mandates new standards, new structures, and "new" basic skills. Caught in the lag are educators and their students who must bridge the ever-widening gaps between what is learned in the classroom and what is required at work.

The Arlington Elementary and Middle School Business/Industry/Education Exchange Project is based on the assumption that (1) all students need to see the practical applications of academic knowledge, (2) all students need to develop pre-employment skills and knowledge, (3) all students need to develop the life-long learning skills needed to adapt to the ever-changing world of work, and (4) all counselors, teachers and employers can play new roles in support of vocational guidance and career education programs designed to help students toward successful entrance into the world of work.

The primary emphasis of the Arlington BIEE Project was on 150 elementary and intermediate educators with other interested educators participating on a space available basis. These persons provide the career awareness required by students in understanding career paths and in making decisions pertaining to future goals and objectives. Unfortunately, isolated as they are within the school environment, many educators have not had recent access to state-of-the-art employment, attitudes, and skill requirements.

Teachers in the classroom often exert strong influence over their students and, in many cases, have difficulty in making lessons appear relevant; student motivation may therefore drop significantly. Teachers exposed to state-of-the-art employment, attitudes, and skill requirements of the working world, however, will be better equipped to make lessons more meaningful and relevant for students, thereby increasing the student's motivation and desire to succeed.

To accomplish these goals, it is imperative that teachers receive up-to-date, informative data on current and future job requirements and hands-on experience as to the relevancy of academic skills and the transference of such skills from the classroom to the working world. Educators must therefore be exposed to the actual employment situation in a meaningful and relevant manner.

Most business and industry in the Arlington environs begin at 8:30 or 9:00 a.m. and terminate at 4:30 or 5:00 p.m. With schools ending classroom instruction between 2:00 and 3:45 p.m., little time remains outside the traditional class day for visitations to surrounding business and industry. As such, the Arlington BIEE Program saw it was necessary to provide the opportunity to educators to receive first-hand experiences in the working world during the actual school day.

c. Goals and Objectives of the Project

The primary goal of the BIEE Project was to initiate dialogues among vocational and academic subject area teachers and local business and industry representatives in order to identify ways educators, community organizations, and employees can work more closely together to help prepare students for the realities of the world of work.

The specific objectives for the BIEE Project are

1. To increase educators knowledge of present and projected local economic development patterns, occupational structures, workforce characteristics, and opportunities for entry-level employment.
2. To provide first hand opportunities for employers to identify desirable employee work habits and attitudes and basic communication, academic, and technical competencies necessary for job success and career advancement.
3. To increase vocational/career awareness, orientation, and exploration knowledge to educators
4. To provide opportunities for educators to observe actual work environments or procedures.

d. Description of General Project

The Arlington BIEE Project was designed to help bridge traditional gaps existing between vocational and academic program goals, career education, student vocational interests and attitudes, and local employer needs and satisfactions. Emphasis was placed on the identification of ways academic teachers, guidance counselors, and local employers can augment, supplement, and support existing career education and program needs.

The project was housed at the Arlington Career Center under the auspices of the Adult, Vocational, and Career Education Division of the Arlington Public School System.

The project director, staff, and consultants worked with the Director of Adult, Vocational, and Career Education, fourteen curriculum specialists, the twenty-seven principals, and selected Arlington Chamber of Commerce and the Arlington County Division of Economic Development representatives to plan, publicize, implement, and evaluate a series of six one-day business and industry exchange visitations. The Project Director in conjunction with the Arlington Chamber of Commerce, met with business leaders in an orientation session prior to the educator's visits.

Approximately 25 educators participated in each all-day exchange. The format consisted of a one and one-half hour orientation workshop featuring overview presentation by the Arlington County Division of Economic Development representative, followed by morning and afternoon visits to selected business or industry establishments. Activities included employer presentations, question and answer opportunities, work observations, and tours of facilities.

Target group participation was limited to a maximum of 150 Arlington Public School personnel. Efforts were made to encourage strong participation by teachers and counselors of students in grades four through nine. The student population treated by this Project consisted of all students enrolled in the classes of educators involved in the business visits. This student population was representative of the Arlington Public School population.

The design of the Project was developed in three phases:

#### Phase I. Planning

1. Identify resources and determine staff/collaborator responsibilities.
2. Enlist administrative support (curriculum specialists, guidance directors, and principals).
3. Enlist Arlington Chamber of Commerce and Office of Economic Development support.
4. Develop pre and post attitudinal surveys.
5. Administer pre attitudinal survey to educators.
6. Identify and prepare evaluation instruments.
7. Prepare quarterly report.
8. Contact potential business and industry participants.
9. Obtain business/industry commitments.
10. Determine group for each tour.
11. Prepare quarterly report.
12. Determine specific exchange dates.
13. Prepare educator sign-up sheets.
14. Determine format for orientation overview presentations.
15. Prepare master schedule.
16. Arrange appropriate publicity.



## Phase II. Implementation

1. Confirm final arrangements for each monthly exchange as needed.
2. Prepare and distribute timely reminders to project participants.
3. Refine exchange plans as needed.
4. Prepare January quarterly reports.
5. Administer post attitudinal survey.
6. Conduct January, February, and March exchanges.
7. Evaluate these exchanges.
8. Prepare April quarterly report.
9. Submit final request for reimbursement.

## Phase III. Final Evaluation and Dissemination.

1. Summarize findings.
2. Prepare final report.

As an integral part of the Project design, specific materials and communications were developed for both businesses and educators. A representative sample of these materials are included in the Appendices.

The focus of the materials for business was assistance to each business in its presentation to educators. These materials include 1) suggestions for presentation topics, 2) letters of information, and 3) evaluation of the program. The focus of the materials for educators was preparation for their visit to businesses and evaluation of their perception of their experiences. These materials include 1) attitudinal surveys to measure teachers' pre and post awareness of business and industry, 2) suggested questions educators could ask business, and 3) letters of information.

### e. Results and Accomplishments of the Project.

The Arlington BIEE Project met its objectives. The educators who participated in the program planned to adopt the knowledge gained from the visits to their classroom instruction. The relationship of business/industry and education was enhanced as the participants became aware of each others concerns and needs.

The educators enjoyed the opportunity to be at work sites and communicate directly with the businesses. They increased their knowledge in the areas of the demographics of Arlington business and industry, employment attitudes desired by business and needed competencies for successful employment.

All communications indicated that the program was positively received by all involved. Many of the participants on the business part of the program orally indicated their enthusiasm after the visits. The educators enthusiastically indicated both orally and in writing that it had been a worthwhile experience.

#### f. Evaluation of the Project

The sources for evaluation of the Project are 1) the educators who did participate in the visits, 2) educators who did not participate in the visits, 3) Arlington Public Schools administrators who participated, 4) the Schools administrators who did not participate, 5) participating members of the business community, and 6) Project staff.

1. The first section of this evaluation is devoted to the survey responses of the participating and non-participating educators. As shown in Table 1, "Before and After Rating of Employability Attitudes for the Work World by Both Participating and Non-Participating Educators," some significant attitudinal changes occurred with participating educators after their visit to business. More importantly, significant difference in rating desirable traits occurred between the groups of educators who had been exposed to the business world and educators who had not. (See Table 1)

The second section of the evaluation illustrates the educators' awareness of the business community within the Arlington boundaries. Table 2 shows that non-participants in the BIEE Project retained an erroneous view of the major businesses of Arlington. Participants in BIEE also began their BIEE experience with a distorted picture of the major businesses. However, their perceptions underwent a significant change. At the conclusion of their experience, the participants changed their rank ordering of the businesses to one which more accurately reflected the actual business community. (See Table 2)

The third section of the evaluation demonstrates the educators' awareness of the entry level skills desired by businesses. As seen in Table 3, both non-participants and participants had an understanding of the skills necessary in the work world. Some changes occurred in the perceptions of the participants, but both non-participants and participants indicated a sound knowledge base in this area. This situation shows that educators and business share common goals. (See Table 3)

The fourth section of the evaluation surveyed the use or anticipated use of information about business and/or industry with students. Of the participants, 96.7 percent indicated they were using or anticipated using this information. Of the non-participants 38% indicated they were using this information. A few of the identified activities which are representation of all responses by participants are

- (1) "talked with my students about what I learned and plan to repeat this information in future years."
- (2) "currently doing an economics unit and am using information in that way."

- (3) "have some representatives we met come and talk to the class about job skills and expectations."
- (4) "continually remind my students about the future working world and how the habits they practice today will follow them into the work place."
- (5) to motivate learning by communicating the link between what is being taught and its applications to career choice."

The non-participants indicated using this information in conjunction with curriculum units.

- 2. No formal survey was prepared to evaluate the attitudes of Arlington Public School Administrators. However, most of the administrators involved volunteered an evaluation of the Project. Principals in the schools affected by the Project reported that the teachers in their building who participated found the experience to be worthwhile and extremely helpful. The principals expressed interest in continuing the Project.
- 3. Participating businesses were requested to complete a brief questionnaire so that Project staff could determine if any changes were needed in the visit arrangements. Only eleven of the fourteen businesses responded in writing, and their responses indicate satisfaction with their participation. The informal, oral evaluation provided by the businesses consisted of high praise, a commitment of continued support, and great enthusiasm for their role in the Project. In fact, the Arlington Chamber of Commerce demonstrated their support for this Project by featuring it in two separate Chamber of Commerce newsletters and by suggesting that business become further involved with the schools with businessmen going to schools to provide direct information to students.
- 4. The Project staff, led by Sue Evans, was gratified with the results of the Project. Throughout the planning and implementation phases, educators and businesses were supportive and enthusiastic. The desired result of impacting the curriculum with the concerns of business is observable.

TABLE #1

Before and After Ratings of Employability Attitudes for the Work World  
by Both Participating and Non-Participating Educators

(Percent indicating very important)

	<u>No</u> <u>Before</u>	<u>No</u> <u>After</u>	<u>Differ-</u> <u>ence</u>	<u>Yes</u> <u>Before</u>	<u>Yes</u> <u>After</u>	<u>Differ-</u> <u>ence</u>	<u>No</u> <u>Before</u>	<u>Yes</u> <u>Before</u>	<u>Differ-</u> <u>ence</u>	<u>No</u> <u>After</u>	<u>Yes</u> <u>After</u>	<u>Differ-</u> <u>ence</u>
Integrity	92.92	83.33	-9.59	87.69	85.26	- 2.43	92.92	87.69	-5.23	83.33	85.26	+1.93
Reactions to Mistakes	58.49	52.38	-6.11	61.54	56.84	-4.70	58.49	61.54	+3.05	52.38	56.84	+4.46
Rationality	35.85	25.00	-10.85	41.54	28.42	-13.12	35.85	41.54	+5.69	25.00	28.42	+3.42
Disposition	43.85	36.90	-6.95	43.85	44.21	+0.36	43.85	43.85	-0.00	39.90	44.21	+7.31
Dependability	86.32	78.57	-7.75	81.54	91.58	+10.04	86.32	81.54	+5.18	78.57	91.58	+13.01
Time												
Conformity	43.87	44.05	+0.18	52.31	71.58	+19.27	43.87	52.31	+8.44	44.05	71.58	+27.53
Concern												
For Details	48.11	35.71	-12.40	46.15	46.32	+0.17	48.11	46.15	-1.96	35.71	46.32	+10.61
Responsibility	58.96	52.88	-6.58	61.54	65.26	+3.72	58.96	61.54	+2.88	52.38	65.26	+12.88
Persistence	51.89	48.81	-3.08	58.48	48.42	-10.06	51.89	58.48	+6.59	48.81	48.42	-0.39

Attentiveness	53.77	41.67	-12.10	48.46	47.37	-1.09	53.77	48.46	-5.31	41.67	47.37	+5.70
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Organization DATA NOT AVAILABLE

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Reaction to

Supervision	43.40	30.95	-12.45	49.23	46.32	2.91	43.40	49.23	+5.83	30.95	46.32	+15.37
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Cooperation	60.85	48.81	-12.04	58.46	58.95	+0.49	60.85	58.46	+2.39	48.81	58.95	+10.14
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Reaction to

Co-workers	37.74	27.38	-10.36	40.77	35.79	-4.98	37.74	40.77	+3.03	27.38	35.79	+8.41
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Communication	65.09	53.57	-11.52	68.46	65.26	-3.20	65.09	68.46	+3.37	53.57	65.26	+11.69
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Social

Judgement	12.26	9.52	-2.74	11.54	12.63	+0.09	12.26	11.54	+0.72	9.52	12.63	+3.11
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Dependency	15.09	10.71	-4.38	15.38	17.86	+2.48	15.09	15.38	+0.29	10.71	17.86	+7.15
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Leadership DATA NOT AVAILABLE

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Assertiveness	19.34	10.71	-8.63	24.62	17.89	-6.73	19.34	24.62	+5.28	10.71	17.89	+7.18
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Initiative	36.79	28.57	-8.22	50.77	38.95	-11.82	36.79	50.77	+13.98	28.57	38.95	+10.38
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Adaptability	42.92	27.38	-15.54	53.08	51.58	-1.50	42.92	53.08	+10.16	27.38	51.58	+14.20
Adventurous	19.81	40.71	+20.90	26.92	16.84	-10.08	19.81	26.92	+7.11	40.71	16.84	+23.67
Courtesy	45.28	39.29	-5.99	53.08	51.58	-1.50	45.28	53.08	+7.80	39.29	51.58	+12.29
Health	26.42	22.62	-3.80	33.85	33.68	-0.17	26.42	33.85	+7.43	22.62	33.68	+11.06
Personal												
Appearance	21.23	17.86	-3.37	33.85	44.21	+10.36	21.26	33.85	+12.69	17.86	44.21	+26.35
Punctuality	58.49	52.38	-6.11	63.00	78.95	+15.87	58.49	63.08	+4.59	52.38	78.95	+26.57
Attendance	67.92	61.90	-6.02	75.38	91.58	+16.20	67.92	75.38	+7.46	61.90	91.58	+29.68
Number of Respondents	212	84		130	95		212	130		84	95	

Table #2 Major Business

Listed below are the major business areas in Arlington ranked ordered before the visitations. The number following indicates the order given to the areas after the visitations.

<u>Non-Participants</u>		<u>Participants</u>	
1.	Government Agency	1.	Government Agency
2.	Real Estate	2.	Real Estate
3.	Retail	3.	Hotel/Motel
4.	Banking	4.	Banking
5.	Hotel/Motel	5.	Retail
6.	Consulting	6.	Personal Services
7.	Personal Services	7.	Consulting
8.	Research & Development	8.	Associations
9.	High Technology	9.	Research & Development
10.	Communications	10.	High Technology
11.	Computers	11.	Communications
12.	Associations	12.	Computers
13.	Insurance/Agent/Broker	13.	Health Care
14.	Utilities	14.	Insurance/Agent/Broker
15.	Health Care	15.	Wholesale Sales
16.	Wholesale Sales	16.	Amusement/Entertainment
17.	Amusement/Entertainment	17.	Utilities

Table #3 Entry Level Skills

Listed below are the entry level skills ranked order before the visits. The number following indicates the order given to the areas after the visitations.

<u>Non-Participants</u>		<u>Participants</u>	
1.	Dependability	1.	Dependability
2.	Ability to communicate	2.	Ability to communicate
3.	Good telephone skills	3.	Good telephone skills
4.	Ability to write well	4.	Ability to follow directions
5.	Ability to follow directions	5.	Ability to write well
6.	Good basic math skills	6.	Technical skills
7.	Vocational skills	7.	Good basic math skills
8.	Technical skills	8.	Vocation skills
9.	Ability to work quickly	9.	Ability to work quickly
10.	Accurate spelling skills	10.	Accurate spelling skills
11.	Good with hands	11.	Good with hands
12.	Accuracy to detail	12.	Accuracy to details
*	Ability to work well with the public	*	Ability to work well with the public

\*Data not available

g. Conclusions, Implications, and Recommendations for the Future

As noted throughout this report, response to this project was highly favorable. Both educators and members of the business community find continuation of such a Project to be desirable and essential. Their response is conclusive proof of the value of this Project.

The educational and business communities learned from each other, and this learning led to new insights for both. We must, therefore, assume that educators needed the opportunity to leave the school environment for exposure to the business world. The schools may be dedicated to preparing students for the work world, but this preparation often takes place without the teachers' awareness of the work world. Moreover, business members, who are products of our educational system, do not fully realize the effort expended by the schools. This Project provided both communities with the opportunity to communicate with and understand each other: this opportunity was greatly needed.

In the future, we plan to continue and extend opportunities for exchange between business and education. This Project will provide the model for further efforts.



## APPENDICES

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BUSINESS/INDUSTRY EDUCATION EXCHANGE PROJECT

- Like to meet with me for further information.
- Have memo to teachers with your name and mine.
- Have me present information at a staff meeting.

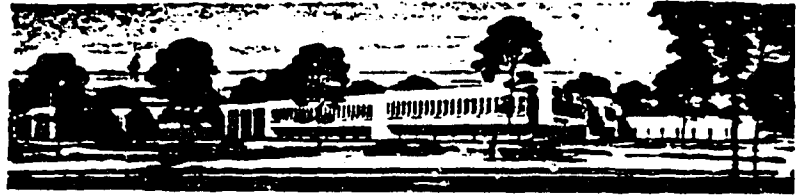
NATIONAL CAREER GUIDANCE WEEK

Name of building coordinator \_\_\_\_\_

Principal's Name \_\_\_\_\_

School \_\_\_\_\_

# ARLINGTON CAREER CENTER



8-2777

816 South Walter Reed Drive, Arlington, Virginia 22204

MEMORANDUM

November 20, 1985

TO: Oakridge Educators

FROM: Helen Belt and Sue Evans

SUBJECT: BUSINESS/INDUSTRY/EDUCATION EXCHANGE PROGRAM

Arlington Public Schools have been awarded a state grant to further increase communications between education and business. The BUSINESS/INDUSTRY/EDUCATION EXCHANGE program is a school board priority area of work. As we know, recent national reports indicate Business and Industry do not feel education is preparing students to meet their needs. This B/I/EE project is our opportunity to indicate to the Arlington business community that Arlington educators are interested in their concerns.

The 1985 B/I/EE project is intended for educators involved with 4th - 9th grades. We invite all K-12 educators to participate if space is available. The project provides Arlington schools with funds to hire substitutes for teachers visiting the businesses. The one-day event will start at 8:30 A.M. at the Career Center and end there at approximately 3:30 P.M. The opportunities that exist in the Arlington business community will be presented. Following this, visits to three businesses will be arranged.

The Arlington Chamber of Commerce is actively supporting our project, and a variety of businesses are looking forward to meeting with you. The business community has shown great interest. Arlington educators who participate will receive information and support that will benefit their students and themselves. Last year's participants were unanimously enthusiastic. Here is a sample of some comments received. "I feel stimulated and refreshed." "We need more of these exchange programs." "Great day - hope I can attend next year."

If you have any questions, please call Sue Evans or Merle Wexler at 486-2777.

To assist with this project, please complete the attached survey, even if you do not plan to participate. Please return the survey to Mrs. Mack by November 26, 1985.

Thank you.

hh

Name \_\_\_\_\_  
Subject/Grade \_\_\_\_\_

Business/Industry/Education Exchange Survey

1. Rate the following attitudes according to how important you feel they are for success in future careers. (Very Important-5, Important-4, Somewhat Important-3, Not Important-2, No Answer-1)

- \_\_\_\_\_ Integrity. Fair, loyal, honest, and straightforward action.
- \_\_\_\_\_ Reaction to mistakes. Accepts and learns from mistakes.
- \_\_\_\_\_ Rationality. Sizing up situations and predicting the effects.
- \_\_\_\_\_ Disposition. Showing a pleasant attitude toward life.
- \_\_\_\_\_ Dependability. Following or obeying rules, regulations, instructions, directions, duties, and responsibilities.
- \_\_\_\_\_ Time Conformity. Keeping to a time schedule set by the employer.
- \_\_\_\_\_ Concern for Details. Ability to be thorough and complete with work.
- \_\_\_\_\_ Responsibility. Efficient handling of materials, supplies, equipment and tools.
- \_\_\_\_\_ Persistence. Sticking to a work activity until it is complete.
- \_\_\_\_\_ Attentiveness. Paying attention to a work activity.
- \_\_\_\_\_ Reaction to Supervision. Ability to have work judged, criticized, or directed by others
- \_\_\_\_\_ Cooperation. Helping the work group achieve its goals.
- \_\_\_\_\_ Reaction to co-workers. Treatment of fellow workers.
- \_\_\_\_\_ Communication. Accurately and clearly transmitting information to others.
- \_\_\_\_\_ Social Judgement. Acting in ways approved by fellow workers.
- \_\_\_\_\_ Dependency. Seeking help from others in order to complete work tasks.
- \_\_\_\_\_ Assertiveness. Standing up for rights.
- \_\_\_\_\_ Initiative. Taking the lead to act on own in appropriate situations.
- \_\_\_\_\_ Adaptability. Adjusting to a new situation.
- \_\_\_\_\_ Adventurous. Seeking new knowledge or relationships.

- Courtesy. Demonstrating polite behavior.
- Health. General physical well being.
- Personal Appearance. Wearing clothes appropriate for work place.
- Punctuality. Arrives at scheduled times.
- Attendance. Regularly comes to work.

2. What do you feel are the major business areas in Arlington? Rank order the top five (5) with 1 being highest.

- |   |  |
|---|--|
| <input type="checkbox"/> Banking                  | <input type="checkbox"/> Real Estate       |
| <input type="checkbox"/> Insurance/Agent/Broker   | <input type="checkbox"/> Associations      |
| <input type="checkbox"/> Amusement/Entertainment  | <input type="checkbox"/> Computers         |
| <input type="checkbox"/> Retail                   | <input type="checkbox"/> Consulting        |
| <input type="checkbox"/> Wholesale Sales          | <input type="checkbox"/> High Technology   |
| <input type="checkbox"/> Research and Development | <input type="checkbox"/> Government Agency |
| <input type="checkbox"/> Personal Services        | <input type="checkbox"/> Health Care       |
| <input type="checkbox"/> Communications           | <input type="checkbox"/> Hotel/Motel       |
| <input type="checkbox"/> Utilities                |  |

3. Which of the following entry level skills do you feel are most important for employment? Rank order the top five (5) with 1 being highest

- |   |   |
|---|---|
| <input type="checkbox"/> Ability to write well    | <input type="checkbox"/> Dependability                        |
| <input type="checkbox"/> Good basic math skills   | <input type="checkbox"/> Accuracy to detail                   |
| <input type="checkbox"/> Ability to communicate   | <input type="checkbox"/> Good with hands                      |
| <input type="checkbox"/> Accurate spelling skills | <input type="checkbox"/> Good telephone skills                |
| <input type="checkbox"/> Vocational skills        | <input type="checkbox"/> Ability to follow directions         |
| <input type="checkbox"/> Technical skills         | <input type="checkbox"/> Ability to work well with the public |
| <input type="checkbox"/> Ability to work quickly  |   |

4. Are you interested in participating in the Business/Industry/Education Exchange Program?  Yes  No

If yes, would you be willing to provide transportation? (There are no funds available to cover the cost of transportation)

Yes  \_\_\_\_\_ Number of passengers including yourself

No  \_\_\_\_\_

- \_\_\_\_\_ Courtesy. Demonstrating polite behavior.
- \_\_\_\_\_ Health. General physical well being.
- \_\_\_\_\_ Personal Appearance. Wearing clothes appropriate for work place.
- \_\_\_\_\_ Punctuality. Arrives at scheduled times.
- \_\_\_\_\_ Attendance. Regularly comes to work.

2. What do you feel are the major business areas in Arlington? Rank order the top five (5) with 1 being highest.

- |                                |                         |
|--------------------------------|-------------------------|
| _____ Banking                  | _____ Real Estate       |
| _____ Insurance/Agent/Broker   | _____ Associations      |
| _____ Amusement/Entertainment  | _____ Computers         |
| _____ Retail                   | _____ Consulting        |
| _____ Wholesale Sales          | _____ High Technology   |
| _____ Research and Development | _____ Government Agency |
| _____ Personal Services        | _____ Health Care       |
| _____ Communications           | _____ Hotel/Motel       |
| _____ Utilities                |                         |

3. Which of the following entry level skills do you feel are most important for employment? Rank order the top five (5) with 1 being highest

- |                                |  |
|--------------------------------|--|
| _____ Ability to write well    | _____ Dependability                        |
| _____ Good basic math skills   | _____ Accuracy to detail                   |
| _____ Ability to communicate   | _____ Good with hands                      |
| _____ Accurate spelling skills | _____ Good telephone skills                |
| _____ Vocational skills        | _____ Ability to follow directions         |
| _____ Technical skills         | _____ Ability to work well with the public |
| _____ Ability to work quickly  |  |

4. Have you used or do you anticipate using information about business and/or industry with students? (Use the back of page, if necessary)

- \_\_\_\_\_ Yes      How?
- \_\_\_\_\_ No      Why Not?

## POSSIBLE PRESENTATION TOPICS

Overview of Business

Entry-level job descriptions - handouts

What makes a good employee?

What are schools doing well?

What do schools need to be doing, at all levels, to better prepare students for work?

Projected employment trends

Own Personal Background - previous job, how got into this field, why -----



26 December 1985

Iear ,

Thank you for agreeing to participate in the Business/Industry/Education Exchange Project. In discussion with those who participated last year, it was suggested that all business participants meet before the BIEE visits begin. We have scheduled a pre-visit meeting for January 7 at 2 p.m. here at the Arlington Career Center. This meeting will give participants a chance to exchange ideas about their presentations and hear some of the experiences from last year's successful program.

We hope you will be able to come to this meeting.

Sincerely,

Sue Evans, Director  
BIEE Project

P.S. Thank you for agreeing to participate on January 14,  
from \_\_\_\_\_ to \_\_\_\_\_.

Education Committee

Business/Industry Education Exchange Project

MEETING

I. BACKGROUND INFORMATION

- A. Arlington County Public Schools - Sue Evans
- B. Arlington County Chamber of Commerce - Paul Hartman  
Education Committee
- C. Business/Industry Education Exchange Project - Silas Manuel

II. PRESENTATIONS

- A. Joanne Rang, Data & Resource Management, Inc.
- B. Jerry Ishmael, Imperial 400

III. DISCUSSION/QUESTIONS AND ANSWERS

7 January 1986

Ms. Joanne M. Rang, Vice President  
Data & Resource Management  
1700 N. Moore St., Suite 720  
Rosslyn, Virginia 22209

Dear Ms. Rang,

Thank you for participating in the Business/Industry/Education Exchange Project. As a follow-up to our conversation, I wanted to put in writing the plans made for the educators visiting your business.

The educators have been scheduled to visit your business on January 14, 1986, March 4, 1986 and March 18, 1986. The times of the visit will be 10:00 a.m. to 11:20 a.m. and 12:20 p.m. to 1:40 p.m. The educational levels represented by the educators are kindergarten through twelfth grade with the majority representing grades four through nine.

Preceding the educators' visits, they will be given an orientation to the demographics of the business and industry in Arlington. They will also be provided with the information you will be presenting.

Again, thank you for your interest and participation in this project. Should you have any problems with the dates and times of the visits, please let me know and I will try to make other arrangements.

Sincerely,



Sue Evans  
Director of Business/Industry  
Education Exchange Project



MEMORANDUM

January 2, 1986

TO:

FROM: Sue Evans

SUBJECT: Business/Industry/Education Exchange Project

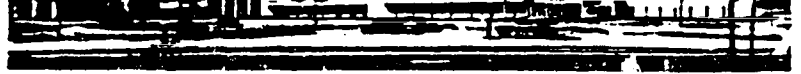
Thank you for your interest in participating in the Business/Industry/Education Exchange Project. The arrangements for the visits have been completed and your date for visiting Arlington businesses is \_\_\_\_\_.

The day will start at the Career Center at 8:30 a.m. You will be provided with coffee and donuts; orientation to the demographics of business and industry in Arlington and your schedule for the day. The day will end at approximately 3:30 p.m. at the Career Center. As you will have approximately one hour for lunch and travel to your next business assignment, please plan on bringing a bag lunch or purchasing it at a fast food restaurant.

Please complete a Request for Substitute Time for Professional Activities form. Use account number 952247.90 and send the substitute request form to Sue Evans at the Career Center.

If you find as your assigned day approaches that you are unable to participate in the B/I/EE project, please call Sue Evans at 486-2777. This will allow another educator to participate in your place. We will try to arrange another visiting day for you.

lh



MEMORANDUM

January 3, 1986

TO: Bill Sharbaugh

FROM: Sue Evans

SUBJECT: Business/Industry/Education Exchange Project

The following members of your staff will be participating in the Business/Industry/Education Exchange Project. In a memo to each of them I am asking that they complete a Request for Substitute Time for Professional Activities form using account number 952247.90.

Also, after each teacher's name is the date they will participate in the project.

Dona S. Beaston - March 18, 1986  
Stan Book - March 4, 1986  
Barbara Coats - January 14, 1986  
Roger Coggins - February 25, 1986  
Gerri Filpi - February 4, 1986  
Candy, Frankel - March 6, 1986  
Sylvia Geer - February 25, 1986  
Dr. James Hill - March 18, 1986  
Martha Jones - March 4, 1986  
Tom Knott - February 25, 1986  
Anne Ledyard - January 14, 1986  
Elsa Lenches - March 18, 1986  
Carole Lopez - March 18, 1986  
Barbara Morris - March 6, 1986  
Ron Paterson - February 4, 1986  
Dayna Smith - February 4, 1986  
Jack Wilson - February 25, 1986

Please call Central Substitute Calling System as soon as you receive the Request for Substitute Time for Professional Activities form to insure that each teacher has a substitute.

After each teacher has participated, I will return the white copy of this form to you. Dr. Webb and I have discussed this procedure and he approved my returning this form to you without his signature. He will be informed as to all who participated in the BIEF project.

lh

Business/Industry/Education Exchange Project

Schedule D

8:30 - 8:45      Coffee and Donuts  
                    Compliments of Southland Corporation

8:45 - 9:45      Orientation  
                    Welcome  
                    Demographics of Arlington County Business and Industry  
                    Procedures for the Visits

10:15 - 11:30    Continental Federal Savings Bank  
                    Ms. Barbara Ainsley  
                    4020 University Drive (4th Floor-Personnel Dept.)  
                    Fairfax, Virginia

11:30 - 12:35    Lunch

12:35 - 1:50     The Journal Newspapers  
                    Ms. Connie Pitt  
                    6832 Commercial Road (Main Lobby-Atrium)  
                    Springfield, Virginia

2:00 - 3:15      Northern Virginia Natural Gas  
                    Ms. Marilyn Hibbert  
                    6801 Industrial Road  
                    Springfield, Virginia

3:30              Return to Career Center and Complete Evaluation Forms

# Northern Virginia Business

## Employers emphasizing communication skills

By SUSAN G. PARKER  
Journal staff writer

An auto mechanic's ability to explain a clinking sound in a car to a customer will become as crucial to his success as his technical skills, according to a report issued by the University of Virginia.

"Employers were really concerned that people be able to speak well and express themselves clearly. They're not very satisfied with those skills," said Julia H. Martin, author of the study and research director of the Demographic Studies Center at the University of Virginia.

The study of 100 employers, titled "Changing Job Skills in Virginia: The Employer's View," was released this month. Martin said researchers identified several trends in workplaces around the state, including:

- Computers are becoming the norm in the workplace, but many employees don't understand how to use them.

- Employees are required to speak and write well, especially when working with customers.

- Bosses are having their employees work in teams to tackle technical problems.

- Workers must come to a job with technical skills and must keep up with changes in their field.

While conducting the year-long study, Martin said she was surprised by the importance employer's give to a worker's ability to get along with fellow workers and speak in public.

“One guy said he would hire an engineer with interpersonal skills over someone with more technical skills.”

— Julia H. Martin  
study author

“One guy said he would hire an engineer with interpersonal skills over someone with more technical skills,” Martin said.

Those engineers often must sell their projects to skeptical customers or explain why the project cost just went up, Martin pointed out.

Now that hospitals must scramble for patients, many are requiring their switchboard operator to be as much a salesman as a receptionist, Martin said.

“A good bit of people's first impression of a hospital depends on the switchboard. This was never the case before,” Martin said.

She also noticed that employers are putting their workers in teams to get the job done.

“Employers find it an efficient way to work. Some new kids may be coming out of automotive school with a background in electronics that the

head mechanic doesn't have. But he can train them in hands-on experience. It's kind of an exchange,” Martin said.

The researcher found that computers are becoming the norm in the workplace, but many workers do not understand how they work.

She said a secretary might not understand how a computer's memory works and might not know she must store letters in the system after they are typed. Or if a computer starts spitting out error messages, a department manager might not be trained enough to know whether he caused the problem or the machine did, Martin said.

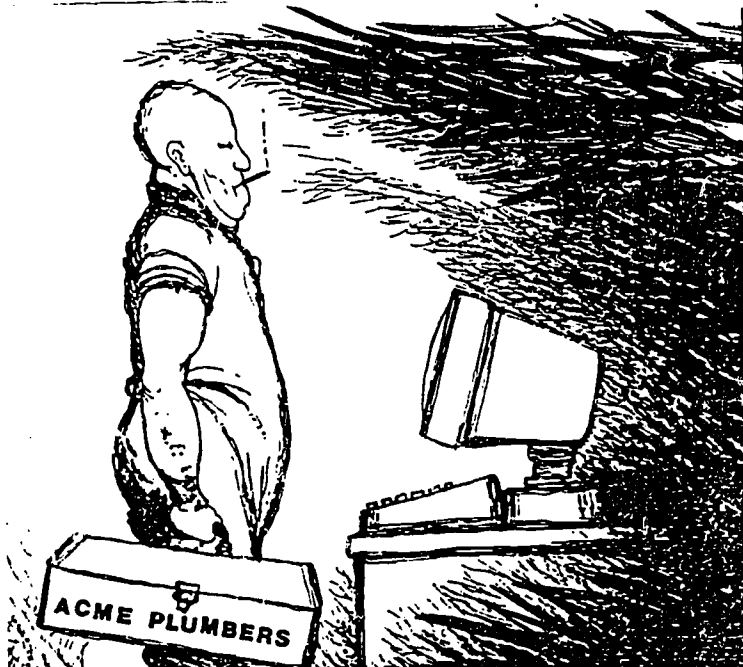
“They will blame it on the machine and waste all that time and money trying to fix it,” she said.

Most employers offer computer training now. But Martin stressed that anyone entering the workplace should have a grounding in computers.

These rapid changes mean that jobs are no longer as rigidly defined, she said. The liberal arts college graduate might have to go to vocational school for computer training. And the auto mechanic should take a class in writing and speaking.

“Students have to settle down and take English courses in high school,” Martin said.

The reasoning skills they learn at college could help them even if they decide on a technical profession later, she said.



## QUESTIONS

1. What are the entry level positions available in your fields?
2. What type of skills are necessary for students entering this career field?
3. Which skills are most students lacking coming into the job market?
4. In which skills areas do you find students most prepared?
5. How can the schools better prepare students to enter the job market?
6. What are the schools doing well to prepare students for jobs?
7. How can I, as a teacher of \_\_\_\_\_, use my discipline to help prepare students for the future?
8. What work attitudes do you feel are most important for success on the job? (see attached)
9. What are the most common reasons for employee turnover?
10. What employment trends do you see for the future?
1. Would your company be willing to provide speakers for a Career Day or in the regular classroom?
2. Would your company be a contact for students who are doing informational interviewing (not job seeking but obtaining reliable, accurate career information)?



- \_\_\_ Integrity. Fair, loyal, honest, and straightforward action.
- \_\_\_ Reaction to mistakes. Accepts and learns from mistakes.
- \_\_\_ Rationality. Sizing up situations and predicting the effects.
- \_\_\_ Disposition. Showing a pleasant attitude toward life.
- \_\_\_ Dependability. Following or obeying rules, regulations, instructions, directions, duties, and responsibilities.
- \_\_\_ Time Conformity. Keeping to a time schedule set by the employer.
- \_\_\_ Concern with Details. Ability to be thorough and complete with work.
- \_\_\_ Responsibility. Efficient handling of materials, supplies, equipment, and tools.
- \_\_\_ Persistence. Sticking to a work activity until it is complete.
- \_\_\_ Attentiveness. Paying attention to a work activity.
- \_\_\_ Organization. Planning work activity.
- \_\_\_ Reaction to Supervision. Ability to have work judged, criticized, or directed by others.
- \_\_\_ Cooperation. Helping the work group achieve its goals.
- \_\_\_ Reaction to co-workers. Treatment of fellow workers.
- \_\_\_ Communication. Accurately and clearly transmitting information to others.
- \_\_\_ Social Judgement. Acting in ways approved by fellow workers.
- \_\_\_ Dependency. Seeking help from others in order to complete work tasks.
- \_\_\_ Leadership. Influencing the work group to achieve goals.
- \_\_\_ Assertiveness. Standing up for rights.
- \_\_\_ Initiative. Taking the lead to act on own in appropriate situations.
- \_\_\_ Adaptability. Adjusting to a new situation.
- \_\_\_ Courtesy. Demonstrating polite behavior.
- \_\_\_ Health . General physical well being.
- \_\_\_ Personal Appearance. Wearing clothes appropriate for work place
- \_\_\_ Punctuality. Arrives at scheduled times.
- \_\_\_ Attendance. Regularly comes to work.

BUSINESS/INDUSTRY Participants

1. American Gas Association  
Contact: Mr. Thomas J. Bowen  
Phone #: 841-8420
2. A T & T Information Systems  
Contact: Ms. Beth Franklin  
Phone #: 359-4095
3. Arlington Hospital  
Contact: Ms. Lisa Flynn  
Phone #: 558-6595
4. Arlington Printers & Stationers  
Contact: Mrs. Beverly J. Rowe  
Phone #: 920-6200
5. C & P Telephone (Bell Atlantic)  
Contact: Mr. Robert Spielberg  
Phone #: 974-3279
6. Continental Federal Savings Bank  
Contact: Ms. Barbara Ainsley / Ms. Lisa Simmons  
Phone #: 691-4597 691-4497
7. Data & Resource Management  
Contact: Ms. Joanne Rang  
Phone #: 527-2063
8. The Hecht Company  
Contact: Ms. Kathleen O'Neill Haithcock / Marsha (sec.)  
Phone #: 558-1630 558-1811
9. Hyatt Arlington  
Contact: Ms. Leslie Mertz  
Phone #: 841-9595
10. Imperial 400 Motor Inn  
Contact: Mr. Jerry Ishmael  
Phone #: 525-0300
11. The Journal Newspapers  
Contact: Ms. Connie Pitt  
Phone #: 750-8190
12. Northern Virginia Natural Gas  
Contact: Ms. Marilyn Hibbert  
Phone #: 750-5521
13. Sovran Bank  
Contact: Ms. Gwen Leech / Mr. Don McClure  
Phone #: 892-3553 892-3668
14. Virginia Power  
Contact: Mr. Charles Leach  
Phone #: 838-2210

Educator Evaluation of Exchange Program

1. Was the scheduled time appropriate?

Yes \_\_\_\_\_

No \_\_\_\_\_ If no, how should it be altered?

2. Was the size of the group appropriate?

Yes \_\_\_\_\_

No \_\_\_\_\_ If no, how should it be altered?

3. Did you receive the information you expected to receive?

Yes \_\_\_\_\_

No \_\_\_\_\_ If no, what else did you expect to hear?

4. Which business you visited provided you with the most useful information?

Visit 1 \_\_\_\_\_

Visit 2 \_\_\_\_\_

Visit 3 \_\_\_\_\_

All \_\_\_\_\_

None \_\_\_\_\_

Why?

5. What ideas or information did you find most helpful?

6. Other recommendations and comments:

# ARLINGTON CAREER CENTER



486-2777

816 South Walter Reed Drive, Arlington, Virginia 22204

March 21, 1986

Ms. Kathleen O'Neill-Haithcock  
The Hecht Company  
685 North Glebe Road  
Arlington, Virginia 22203

Dear Ms. O'Neill-Haithcock:


Thank you for all your time and effort in preparing an excellent presentation for the Arlington Public School educators. Your willingness to participate helped to make the Business/Industry/Education Exchange Project a success.

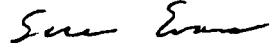
Your presentation was very well received by the educators. It was filled with valuable information which they will use with their students.

Enclosed with this letter you will find an evaluation form which we would like you to fill out. It is a short one which will take but a minute to do, and your response will enable us to revise or update our future BIEE Project. We would appreciate the return of this form as soon as possible.

Please express our appreciation and thanks to all who participated with you.

Sincerely,

  
Robert A. Reade  
Executive Vice President

  
Sue Evans  
BIEE Project Director

**ARLINGTON CHAMBER OF COMMERCE**

**ARLINGTON PUBLIC SCHOOLS**

# **Certificate of appreciation**

**Presented to** \_\_\_\_\_

**in recognition of your participation in**

**Business / Industry / Education Exchange Project**

\_\_\_\_\_  
**Executive Vice President**

**Arlington Chamber of Commerce**

\_\_\_\_\_  
**Project Director**

**Arlington Public Schools**

\_\_\_\_\_  
**Date**

Business Evaluation of Exchange Program

1. Was the scheduled time appropriate?

Yes \_\_\_\_\_

No \_\_\_\_\_ If no, how should it be altered?

2. Was the size of the group appropriate?

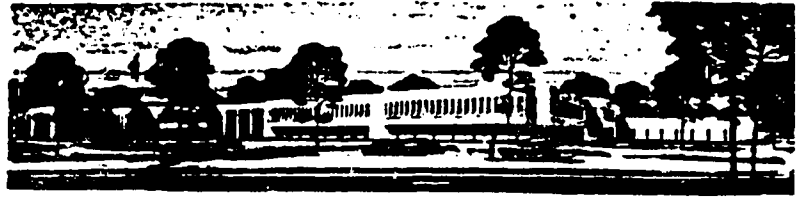
Yes \_\_\_\_\_

No \_\_\_\_\_ If no, how should it be altered?

3. What other information do you feel you would like to have had prior to the visits?

Other recommendations and comments:

# ARLINGTON CAREER CENTER



486-2777

816 South Walter Reed Drive, Arlington, Virginia 22204

MEMORANDUM

March 20, 1986

TO: Principals

FROM: Sue Evans

SUBJECT: Completed Request for Substitute Time for Professional Activities Forms for BIEE

Attached are the Request for Substitute Time for Professional Activities forms for those who participated on February 25, March 4, March 6 and March 18. The forms have been signed by me as per arrangements with Dr. Webb. At the end of the project, Dr. Webb will be informed of all who participated.

On the forms for the individuals who did not participate, I have, where possible, noted the reason.

lh  
attachment(s)

ARLINGTON PUBLIC SCHOOLS  
Career Center

March 20, 1986

MEMORANDUM

TO:

FROM: Sue Evans

SUBJECT: Business/Industry/Education Exchange Project  
Follow-Up Survey

Thank you for your interest and participation in the BIEE project. The businesses that participated are all interested in serving as resources for your students, so please feel free to use your list of Contact Persons during the school year.

As I indicated at the Orientation Session, I will need a follow-up survey completed. Please complete the attached survey and return it to Sue Evans at the Career Center by Friday, March 28, 1986.

Thank you for your assistance.



BUDGET SHEET

	<u>Budget Request From State</u>	<u>Expenditures To Date</u>	<u>Local Contribution</u>
I. Salaries Project Director	000.00	000.00	\$7,259.00
SUBTOTAL	000.00	000.00	\$7,259.00
II. Contractual Services	000.00	000.00	000.00
SUBTOTAL	000.00	000.00	000.00
III. Materials and Supplies	000.00	000.00	000.00
SUBTOTAL	000.00	000.00	000.00
IV. Travel - Two Workshops (mileage at 20.5¢ per per mile, meals, and other approved expenses)	346.00	173.30	11.69
SUBTOTAL	346.00	173.30	11.69
V. Other related Expenses			
Substitute Teacher Time	6,000.00	4,590.00	000.00
Printing	200.00	165.35	000.00
SUBTOTAL	6,200.00	4,755.35	000.00
Indirect Costs	210.00	157.71	000.00
SUBTOTAL	210.00	157.71	000.00
TOTAL	\$6,765.00	\$5,086.36	\$7,270.69

## CHAMBER & COUNTY SCHOOLS CO-SPONSOR EDUCATION EXCHANGE PROGRAM

Arlington County Public Schools educators have had an opportunity over the past three months to visit businesses and industries right here in their county. For the second year, a Business/Industry/Education Exchange (BIEE) has taken place with educators spending one day outside the classroom visiting three different businesses. The Arlington Chamber of Commerce has strongly supported the exchange program. A subcommittee of the Chamber's Education Committee, chaired by Silas Manuel, president of Data and Resource Management, provided business participants for the project, as well as other valuable support and ideas. Sue Evans, BIEE project director for the Arlington Public Schools, reports that the following businesses have participated: American Bar Association, AT&T Information Systems, Arlington Hospital, Arlington Printers & Stationers, Balmar Printing & Graphics, C&P Telephone, Continental Federal Savings Bank, Data and Resource Management, The Hecht Company, Hyatt Arlington, Imperial 400 Motor Inn, The Journal Newspapers, Northern Virginia Natural Gas, Southland Corporation, Sovran Bank, Virginia Power.

The exchange program was held on six days. Each morning educators met at the Arlington Schools Career Center where they received an excellent overview of the demographics and business development of Arlington County presented by Tom Parker, Chief of the County's Economic Development Division. Participants then visited three business sites to learn about Arlington's business and industry, the needs of the community, and the direction students might take in their education. Teachers have been enthusiastic, commenting: "We need more of these exchange programs"; "I feel stimulated and refreshed"; "Great day . . . hope I can attend again next year."

Marty McCord, Yorktown High School Job Placement Coordinator, visited the Arlington Hospital, the Sovran Bank, and C&P Telephone Company. "It's a fabulous program," she said. "At the hospital, I learned about all kinds of jobs I never knew existed. I also found out about many volunteer positions that are open to high school students. At the bank, I learned of the Young Bankers Association, which makes career presentations and talks to kids about how to write checks and how credit works."

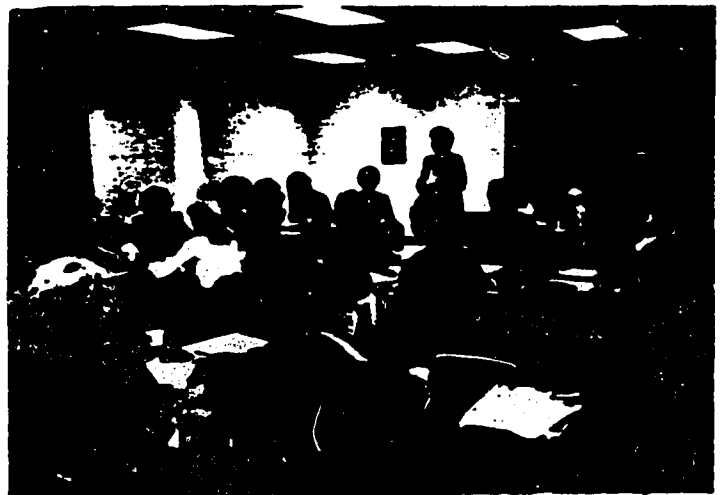
Chamber director and Arlington School Superintendent Arthur W. Gosling gained some firsthand knowledge of the exchange program when he joined school administrators and teachers on March 4. "Many of our students will eventually be employed by firms right here in Arlington," Gosling said. "It is crucial that we understand the working world for which we are preparing them."

Balmar Printing & Graphics provided printing for BIEE materials and the Southland Corporation furnished refreshments.

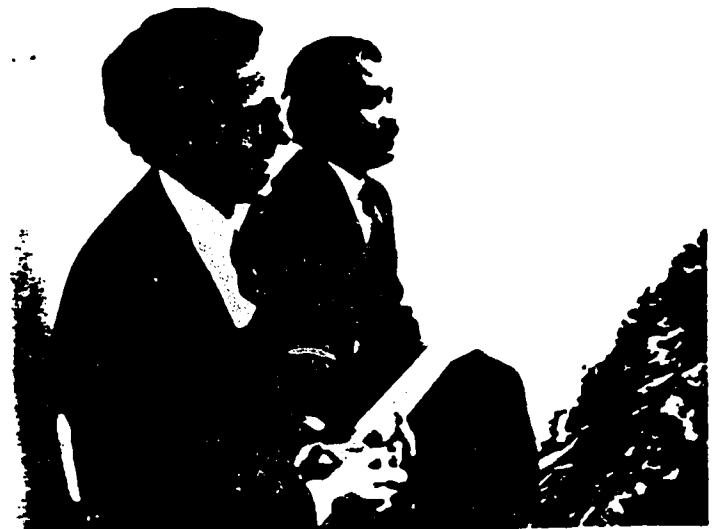
The *Arlingtonian* is published monthly by the Arlington Chamber of Commerce, 4600 N. Fairfax Dr., Arlington, VA 22203. A subscription rate of \$4.00 per Chamber representative is collected as part of annual membership dues. POSTMASTER: Send address changes to Arlington Chamber of Commerce, 4600 N. Fairfax Dr., Arlington, VA 22203.



(L to R) Tom Parker, Arlington County Chief, Economic Development Division; Dr. Arthur Gosling, Superintendent, Arlington County Public Schools & Chamber director and Chamber President Steve Caruthers attended March 6 BIEE program.



Sue Evans, Arlington Public Schools Career Center and BIEE coordinator, briefs teachers on March 6 program.



Tom Parker (L), Arlington County Economic Development Division Chief and Silas Manuel, president of Data Resource Management & Chamber chairman for the 1986 BIEE program (see page 2) attend recent teacher orientation.