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Abstract

A bibliographic collection on science buildings and facilities is cited with many different reference sources for those concerned with the design, planning, and layout of science facilities. References are given covering a broad scope of information on--(1) physical plant planning, (2) management and safety, (3) building type studies, (4) design and construction, and (5) special facilities and equipment. An appendix with publishers and distribution sources for these documents is included. (TG)

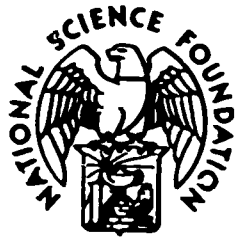
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SCIENCE FACILITIES BIBLIOGRAPHY

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FOREWORD

The National Science Foundation established its Architectural Services Staff in 1963 to provide professional support in the areas of architectural design, engineering and construction. This support has been employed in the evaluation of proposals and grants to aid the construction of science facilities. A reference library was found necessary at the beginning of this activity to provide guidance with facility design. Gradually, a collection of reports, papers and other literature has been assembled, dealing with many aspects of architecture, construction and equipment for science facilities.

Science Facilities Bibliography is a list of the articles and papers in the science facilities literature collection of the Architectural Services Staff. It has been prepared to help persons searching for data on the design of science facilities, and as a means of informing such persons of the material available for reference in the offices of the National Science Foundation in Washington.

A new feature of the Science Facilities Bibliography is an Appendix of Publishers and Distribution Sources for the listed references. The three letters in parentheses after each reference are keys to the list of addresses in the Appendix.

In addition to the references included in this publication, the collection contains many manufacturer's product catalogs describing laboratory equipment, furnishings and construction components used in science facilities. This literature is not listed because of its high rate of obsolescence. However, visitors to the Foundation offices may also use this part of the reference collection.

HAROLD HOROWITZ,
*Supervisory Architect,
Architectural Services Staff,
Institutional Relations.*

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I. PHYSICAL PLANT PLANNING

A. INVENTORY AND SURVEY REPORTS

- ARMAMENTOS, ROBERT G. *Multipurpose Buildings Lead Rise in 1968 Construction Bids*. *College and University Business*, v. 44, Feb. 1968: 74-76. (MHP)
- BOKELMAN, W. ROBERT AND JOHN B. RORR. *College and University Facilities Survey, Part 2: Planning for College and University Physical Plant Expansion, 1956-70, OE-5100, Cir. No. 603*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1960. 112 p. (OED)
- BOKELMAN, W. ROBERT AND LESLIE F. ROBBINS. *New Construction and Rehabilitation on College Campuses, 1959-60, College and University Physical Facilities Series, OE-51004-15*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Aug. 1962. 10 p. (OED)
- *New Construction and Rehabilitation on College Campuses, 1961-62, College and University Physical Facilities Series, OE-51002, Cir. No. 665*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1962. 9 p. (OED)
- *Progress in the Construction of Higher Education Facilities: Detailed Analysis, 1958-59, Trends Analysis, 1951-59, OE-51002, Cir. No. 665*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1962. 57 p. (OED)
- HIGGINS, E. EUGENE. *College and University Enrollment and Physical Facilities Survey, 1965-70, College and University Physical Facilities Series OE-51004-19*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, U.S. Govt. Print. Off., Sept. 1967. 6 p. (GPO)
- HIGGINS, E. EUGENE AND MARY B. FULLER. *College and University Facilities Survey, Part 3: Inventory of College and University Physical Facilities, OE-51007*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, U.S. Govt. Print. Off., 1965. 573 p. (GPO)
- *Inventory of Higher Education Physical Facilities, College and University Physical Facilities, OE-51004-1*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Feb. 1962. 7 p. (OED)
- List of New College Science Buildings Since 1950*. Wooster, Ohio. A Report of the Wooster Conference, College of Wooster, June 1959: 125-129. (WOO)
- ROBBINS, LESLIE F. *New Construction and Rehabilitation on College Campuses 1961-62, 1962-63, and 1963-64, OE-51011*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, U.S. Govt. Print. Off., 1966. 79 p. (GPO)
- *Student Accommodations in Instructional Facilities, 1960-61 and Planned for 1965-66, College and University Physical Facilities Series, OE-51004-4*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, July 1962. 7 p. (OED)

ROBBINS, LESLIE F. *Student Accommodations in Residential Facilities, 1960-61 and Planned for 1965-66, College and University Physical Facilities Series, OE-51004-5*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, July 1962. 6 p. (OED)

ROBBINS, LESLIE F. AND W. ROBERT BOKELMAN. *College and University Facilities Survey, Part 4: College and University Enrollment and Facilities Survey, 1961-65, OE-51006, Cir. No. 723*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1964. 112 p. (OED)

B. CAMPUS PLANNING

BRICK, MICHAEL. *The Need for Higher Education Facilities in the Mohawk Valley*. Albany, N.Y. State University of New York, Dec. 1965. 66 p. (SUN)

Bricks and Mortarboards: A Report on College Planning and Building. New York, N.Y. Educational Facilities Laboratories, Inc. (undated). 168 p. (EFL)

Computer Aided Campus Planning for Colleges and Universities, Interim Report. New York N.Y. Educational Facilities Laboratories, Inc., Aug. 1967. 95 p. (EFL)

COUGHLIN, GAILA, ed. *A College in the City: An Alternative*. New York, N.Y. Educational Facilities Laboratories, Inc., (undated). 42 p. (EFL)

D'AMICO, LOUIS A. AND WILLIAM BROOKS. *Who's Writing What-Where-About Physical Facilities*. College and University Business, v. 44, Apr. 1968: 88-91. (MHP)

DOBER, RICHARD P. *Campus Planning*. New York, N.Y. Reinhold Publishing Corp., 1963. 314 p. (RPC)

— *The New Campus in Britain: Ideas of Consequence for the United States*. New York, N.Y. Educational Facilities Laboratories, Inc., (undated). 71 p. (EFL)

EGNER, ANTON J. *How Big Can You Get?* College and University Business, v. 37, Nov. 1964: 57-61. (MHP)

HOROWITZ, HAROLD. *The Human Environment*. Paper presented at 2nd Annual Conference, Society for College and University Planning. Ann Arbor, Mich. The University of Michigan, Aug. 20-22, 1967. 14 p. (ARC)

KNOX, NAPHTALI H. *The Urban University Community: A Planning Guide*. College and University Business, v. 42, Apr. 1967: 58-63. (MHP)

LACY, BILL N., ed. *10 Designs: Community Colleges*. New York, N.Y. Educational Facilities Laboratories, Inc., 1962. 100 p. (EFL)

MAYEK, FREDERICK W., ed. *Contrasting Concepts in Campus Planning*. Selected paper from the 1st Annual Conference, Society for College and University Planning. Ann Arbor, Mich. The University of Michigan, Aug. 1966. 80 p. (SCU)

RORK, JOHN B. AND LESLIE F. ROBBINS. *Casebook on Campus Planning and Institutional Developments; Ten Institutions, How They Do It, OE-51003*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1962. 162 p. (OED)

SOLOVY, JACK P. 'Instant Campus'—*The Package Approach to School Buildings*. Building Construction, v. 8. June 1967: 85-86. (CPC)

- WEINSTOCK, RUTH S. *Space and Dollars: An Urban University Expands*. New York, N.Y. Educational Facilities Laboratories, Inc., (undated). 26 p. (EFL)
- ZISMAN, S. B. AND CATHERINE POWELL. *New Campuses for Old: A Case Study of Four Colleges that Moved*. New York, N.Y. Educational Facilities Laboratories, Inc., (undated). 20 p. (EFL)

C. BUILDING PROGRAMMING

- APKER, WESLEY. *Better Space Construction Decisions by Instructional Program Simulation Utilizing the Generalized Academic Simulation Programs*. Marysville, Wash. Marysville High School, (undated). 18 p. (RES)
- DAVIS, GERALD. *Building Programmers Act As Translators*. *College and University Business*, v. 41, Oct. 1966: 84-86. (MHP)
- EVANS, BENJAMIN H. AND C. HERBERT WHEELER, JR. *Emerging Techniques 2: Architectural Programming*. Washington, D.C. American Institute of Architects, 1969. 68 p. (AIA)
- HARO, JOHN. *Flexibility: Can it Stave Off Building Obsolescence?* *College and University Business*, v. 42, June 1967: 51-52. (MHP)
- HOBOWITZ, HAROLD. *The Architect's Programme and the Behavioral Sciences*. *Architectural Science Review*, v. 9, Sept. 1966: 71-79. (ARC)
- *The Program's The Thing*. *AIA Journal*, v. 47, May 1967: 94-100. (ARC)
- HOUGH, JANE E. *Architectural Program Guidelines*. Washington. National Institute of Mental Health, Mental Health Facilities Branch, Architectural Consultation Section, 1967. (various paging). (NIM)
- How To Know What You Need—And How to Get It—Are Major Concerns of College Planning Seminar*. *College and University Business*, v. 37, Dec. 1964: 23-24. (MHP)
- HUTCHINSON, GEORGE A. *Evolution of a Learning Center*. *College and University Business*, v. 42, May 1967: 81-84. (MHP)
- McKEVITT, JOHN G. AND OTHERS. *What to Probe Before You Build*. *College and University Business*, v. 40, Jan. 1966: 43-46. (MHP)
- OSSO, NICHOLAS A. AND CHARLES T. ROBERTS. *Higher Education Facilities Classification and Inventory Procedures Manual, OE-51016*. Washington. U.S. Dept. of Health, Education, and Welfare, Higher Education Studies Branch, 1968. 102 p. (OED)
- SMITH, LOUIS M. AND PAT M. KEITH. *Social Psychological Aspects of School Building Design, Project No. S-223*. Washington. U.S. Office of Education. Bureau of Research, 1967. 462 p. (NAC)
- Systematic Approach to a Large-Scale Building Program*. Albany, N.Y. State University Construction Fund, (undated). (unnumbered) (SUC)
- Systems for Measuring and Reporting the Resources and Activities of Colleges and Universities*. Washington. National Science Foundation, U.S. Govt. Print. Off., 1967. 444 p. (GPO)
- TENNANT, WESLEY L. *Developing Design Criteria for Research Facilities*. Paper presented at 20th National Conference on the Administration of Research. Miami Beach, Fla. Oct. 1966. 13 p. (SRI)

To Build or Not to Build: A Report on the Utilization and Planning of Instructional Facilities in Small Colleges. New York, N.Y. Educational Facilities Laboratories, Inc., (undated). 38 p. (EFL)

University Research Building for Short Term Grant Programs. Madison, Wis. University Facilities Research Center. University of Wisconsin, Dec. 1961. 24 p. (EFL)

WAKEFIELD, HOWARD E. *Educational Specifications: An Annotated Reference List.* Madison, Wis. Educational Resources Information Center, Nov. 1968. (unnumbered). (CEF)

——— *Evaluating Educational Facilities: An Annotated Reference List.* Madison, Wis. Educational Resources Information Center, Nov. 1968. (unnumbered). (CEF)

——— *Flexible Educational Facilities: An Annotated Reference List.* Madison, Wis. Educational Resources Information Center, Nov. 1968. (unnumbered). (CEF)

WAKEFIELD, HOWARD E. AND STEWART D. NORTH. *The Design, Development and Administration of Educational Facilities: A Conceptual Framework.* Madison, Wis. Educational Resources Information Center, Feb. 1969. (various paging). (CEF)

YURKOVICH, JOHN V. *A Methodology for Determining Future Physical Facilities Requirements for Institutions of Higher Education, Project No. 2920.* Washington. U.S. Dept. of Health, Education and Welfare, Office of Education, Dec. 1966. 57 p. (OED)

D. SPECIAL CAMPUS FACILITIES

Architectural, Engineering and Consulting Firms with Certified Fallout Shelter Analysts: Directory, FG-F-1.5. Washington. U.S. Dept. of Defense, Office of Civil Defense, U.S. Govt. Print. Off., May 1965. 62 p. (GPO)

Architectural, Engineering and Consulting Firms with Certified Fallout Shelter Analysts: Supplement Directory, FG-F-1.5. Washington. U.S. Dept. of Defense, Office of Civil Defense, U.S. Govt. Print. Off., May 1965, 53 p. (GPO)

Army Airfield-Heliport Design, General Provisions and Criteria, Technical Manual 5-823-1. Washington. Dept. of the Army, Headquarters, Apr. 1965. 62 p. (USA)

Automobile Parking Structures: A Reference Bulletin for Building Code Modernization. New York, N.Y. American Iron and Steel Institute, 1966. 16 p. (AIS)

HIGGINS, E. EUGENE AND DOROTHY M. JONES. *Campus Parking Bibliography, College and University Physical Facilities Series, OE-51004-10.* Washington. U.S. Dept. of Health, Education and Welfare, Office of Education, Aug. 1962. 3 p. (OED)

HIGGINS, E. EUGENE, MARY B. FULLER AND DOROTHY M. JONES. *Classroom Facilities Planning Aids, College and University Physical Facilities Series, OE-51004-7, (Bibliography).* Washington. U.S. Dept. of Health, Education and Welfare, Office of Education, June 1962. 15 p. (OED)

——— *College Union Planning Aids, College and University Physical Facilities Series, OE-51004-13, (Bibliography).* Washington. U.S. Dept. of Health, Education and Welfare, Office of Education, Aug. 1962. 11 p. (OED)

- HIGGINS, E. EUGENE, MARY B. FULLER AND LINDA L. WRIGHT. *Classroom Facilities Planning Aids, College and University Physical Facilities Series, OE-51004-7A, (Bibliography)*. Washington. U.S. Dept. of Health, Education and Welfare, Office of Education, Mar. 1964. 15 p. (OED)
- RICH, RICHARD C. *Colleges Build Up-and Down-in Search for Parking Space*. *College & University Business*, v. 44, June 1968 : 48-51. (MHP)
- ROBERTSON, NAN. *Air Structures for School Sports*. New York, N.Y. Educational Facilities Laboratories, Inc., (undated). 25 p. (EFL)
- Shore Protection, Planning and Design. Technical Report No. 4*. Washington. U.S. Army Coastal Engineering Research Center. U.S. Govt. Print. Off., June 1966. 561 p. (GPO)
- University Facilities Research Center. Parking Programs for Universities*. Madison, Wis. University of Wisconsin, Nov. 1961. 28 p. (EFL)

II. PHYSICAL PLANT MANAGEMENT

A. BUDGETING AND FINANCE

- BOKELMAN, W. ROBERT AND JOHN B. RORR. *College and University Facilities Survey, Part 1: Cost and Planning of College and University Buildings, 1951-55, Cir. No. 540.* Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1959. 53 p. (OED)
- DIEHL, JOHN R. *The Applicable, Adaptable Enclosure Method.* AIA Journal, v. 47, Apr. 1967: 87-90. (AIA)
- HOGAN, JOSEPH M. *Control Construction Costs Step by Step.* College and University Business, v. 37, Nov. 1964: 65-67. (MHP)
- HUNT, WILLIAM DUDLEY, JR. *A Responsibility—and a Part of the Creative Process.* AIA Journal, v. 47, Feb. 1967: 57-60. (AIA)
- JAQUITH, LAWRENCE C. *Accuracy of Estimates: Close but Never Perfect.* Architectural Record, v. 143, May 1968: 87-88. (MHI)
- *A Proposed Guide for Square-foot Cost Calculations.* Architectural Record, v. 142, Dec. 1967: 87-88. (MHI)
- *Contingency Allowances: Real Numbers—Not Fudge Factors.* Architectural Record, v. 141, May 1967: 87-88. (MHI)
- JAQUITH, LAWRENCE C. AND RAYMOND F. YOUNG. *On Unit-Price Contracts—You Almost Surely Lose.* Architectural Record, v. 144, Sept. 1968: 87-88. (MHI)
- JENNE, J. KURT. *Research Facilities Cost Study.* Washington. NASA, Office of Grants and Research Contracts, June 1966. 30 p. (NAT)
- KASSABAUM, GEORGE. *Theoretical Construction for Early and Continuing Control.* AIA Journal, v. 47, Feb. 1967: 61-65. (AIA)
- KAVINOKY, ROBERT B. *Unit Cost Approach To Estimating.* National Association of Physical Plant Administrators, 53rd Annual Meeting, Stanford University. Stanford, Calif. May 1-5, 1966: 55-63. (APP)
- Labor and Material Requirements for College Housing Construction, BLS Bulletin 1441.* Washington. U.S. Dept. of Labor, Bureau of Labor Statistics, U.S. Govt. Print. Off., May 1965. 34 p. (GPO)
- Labor and Material Requirements for School Construction, BLS Bulletin 1586.* Washington. U.S. Dept. of Labor, Bureau of Labor Statistics, U.S. Govt. Print. Off., June 1968. 24 p. (GPO)
- McELWAIN, WARREN E. *How to Forecast Demand for Construction Dollars.* College and University Business, v. 41, Nov. 1966: 68-69. (MHP)
- 1961-68 New Construction Report.* National Association of Physical Plant Administrators, Mar. 1968. 60 p. (APP)
- ROBBINS, LESLIE F. *Expenditures Planned for Higher Education Facilities, 1961-65, College and University Physical Facilities Series, OE-51004-6.* Washington. U.S. Dept. of Health, Education and Welfare, Office of Education, July 1962. 7 p. (OED)

Sound Area Analysis Is Crucial To Controlling Cost of Buildings. Engineering News-Record, v. 179, Sept. 21, 1967: 90-92. (MHI)

TOUGH, COULSON AND JAMES SHARP. *A Systems Approach To Budgeting Can Open Communications Bottlenecks.* College and University Business, v. 44, May 1968: 68-72. (MHP)

WAKEFIELD, HOWARD E. *Construction Costs of Educational Facilities: An Annotated Reference List.* Madison, Wis. Educational Resources Information Center, Nov. 1968. (unnumbered). (CEF)

B. OPERATION AND MAINTENANCE

BERRY, JOHN A. AND ROBERT E. ROBERSON. *Computer Applications to an Integrated Maintenance Management System.* Paper presented at Annual Meeting, Eastern Regional Group of the National Association of Physical Plant Administrators of Universities and Colleges. New York, N.Y. Jan. 1967. 23 p. (APP)

Collected NAPPA Regional Papers. New York, N.Y. National Association of Physical Plant Administrators of Universities and Colleges, v. 1, Jan. 1966. 107 p. (APP)

Collected NAPPA Regional Papers. New York, N.Y. National Association of Physical Plant Administrators of Universities and Colleges, v. 2, May 1968. 131 p. (APP)

DANIEL, CLARENCE H. *A Planned Preventive Maintenance Program.* Albany, N.Y. Office of Administrative Services in Higher Education, New York State Education Department, 1966. 42 p. (SED)

Fundamentals of Physical Plant Management, Planning and Construction. National Association of Physical Plant Administrators of Universities and Colleges, May 1966. 49 p. (APP)

Guidelines. Albuquerque, N. Mex. Construction Practices Council of New Mexico, Inc., Jan. 1967. 16 p. (CON)

Health Research Facility Planning Funds Available from Housing and Home Finance Agency, Laboratory Design Notes. Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, (undated). 3 p. (DER)

HIGGINS, E. EUGENE AND LINDA L. WRIGHT. *Ratio of Equipment Investment to Building Investment, College and University Physical Facilities Series, OE-51004-17.* Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, June 1963. 5 p. (OED)

KUTZ, ROBERT M. *Maintenance Scheduling & Control at Yale University.* Paper presented at Annual Meeting, Eastern Regional Group of National Association of Physical Plant Administrators of Universities and Colleges. New York, N.Y. Jan. 1967. 10 p. (APP)

Maintenance: The Guardian of a Building's Value. Building Construction, v. 8, July 1967: 36-42. (CPC)

Minutes of the 53rd Annual Meeting. National Association of Physical Plant Administrators of Universities and Colleges. Stanford, Calif. Stanford University, May 1-5, 1966. 215 p. (APP)

Minutes of the 54th Annual Meeting. National Association of Physical Plant Administrators of Universities and Colleges. Montreal, Can. University of Montreal, Apr. 30-May 5, 1967. 320 p. (APP)

NASA Pert in Facilities Project Management, NPC-101-3. Washington. NASA, U.S. Govt. Print. Off., Mar. 1965. 74 p. (GPO)

PERRY, LOUIS L., SR. *The How and Why of Site Visits.* Heating, Piping & Air Conditioning, v. 39, Aug. 1967: 103-165. (RPC)

SHOWALTER, ROBERT H. *Planning and Construction of College and University Buildings.* 15th Annual Meeting, Eastern Regional Group, National Association of Physical Plant Administrators of Universities and Colleges, Jan. 1966: 19-28. (APP)

SMITH, J. MCCREE. *Maintenance Budgeting.* Raleigh, N.C. Director of Physical Plant, N.C. State University, Apr. 4, 1966. 9 p. (mimeograph)

Standards Committee Report. National Association of Physical Plant Administrators, 1966. 53 p. (APP)

WAKEFIELD, HOWARD E. *The Maintenance of Educational Facilities: An Annotated Reference List.* Madison, Wis. Educational Resources Information Center, Nov. 1968. (unnumbered). (CEF)

C. SPACE UTILIZATION AND MEASUREMENT

Classification of Building Areas, Publication No. 1235. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1964. 15 p. (NAS)

GRAY, J. LOREN. *Report of Space Requirements for Scientific Research Laboratories, Technical Report No. 3.* Ottawa, Can. National Research Council of Canada, Division of Building Research, Jan. 1949. 8 p. (NRC)

HAINES, CHARLES AND OTHERS. *Space Problems in Research Laboratories.* Research Management, v. 6, Sept. 1963: 367-393. (IND)

HIGGINS, E. EUGENE AND DOROTHY M. JONES. *Space Utilization, College and University Physical Facilities Series, OE-51004-12.* Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Aug. 1962. 7 p. (OED)

HIGGINS, E. EUGENE AND LINDA L. WRIGHT. *Space Utilization Bibliography, College and University Physical Facilities Series, OE-51004-12A.* Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Jan. 1964. 11 p. (OED)

HIGGINS, E. EUGENE AND M. LOUISE STEWART. *Assignable Area of College and University Buildings by Facilities Category, College and University Physical Facilities Series, OE-51004-16.* Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Apr. 1963. 4 p. (OED)

HIGGINS, E. EUGENE, MARY B. FULLER AND DOROTHY M. JONES. *Gross Area of Non-Residential Buildings by Facilities Category, College and University Physical Facilities Series, OE-51004-14.* Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Sept. 1962. 4 p. (OED)

Systems for Measuring and Reporting the Resources and Activities of Colleges and Universities. Washington. National Science Foundation, U.S. Govt. Print. Off., 1967. 444 p. (GPO)

III. BUILDING TYPE STUDIES

A. BIOLOGY FACILITIES

- A Directory of Research Natural Areas on Federal Lands of the United States of America.* Washington. Federal Committee on Research Natural Areas, 1968, U.S. Govt. Print. Off., 1968. 129 p. (GPO)
- A Selected Bibliography on Microbiology Laboratory Design, Laboratory Design Notes.* Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, 1964. 15 p. (DER)
- CLARK, JOHN R. AND ROBERTA CLARK, ed. *Sea-Water Systems for Experimental Aquariums: A Collection of Papers, Research Report 63.* Washington. U.S. Dept. of Interior, Bureau of Sport Fisheries and Wildlife, 1964. 192 p. (SHM)
- Design Criteria for Microbiological Facilities, v. 1 and v. 2.* Garden City, N.Y. Associated Engineers and Consultants, Inc., Prepared for Technical Engineering Division and Industrial Health and Safety Division. Fort Detrick, Md. U.S. Army Biology Laboratories, Mar. 1966. (Various paging, loose-leaf.) (CFS)
- Environmental Control for Animals and Plants, ASHRAE Guide and Data Book, Applications for 1968, Chapter 16.* New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1968. (ASH)
- GREMILLION, GARDNER GRAY. *The Use of Bacteria-Tight Cabinets in the Infectious Disease Laboratory.* Notre Dame, Ind. Proceedings of the Second Symposium on Gnotobiotic Technology, May 1959. 12 p. (NDP)
- HANSON, R. P. AND OTHERS. *Arbovirus Infections of Laboratory Workers.* Science, v. 158, Dec. 1967: 1283-1286. (AAA)
- HELLMERS, HENRY AND R. J. DOWNS. *Controlled Environments for Plant-Life Research.* ASHRAE Journal, v. 9, Feb. 1967: 37-41. (ASH)
- KURTZ, NORMAN D. *Structures and Services Are Mated in Biology Labs.* Heating, Piping & Air Conditioning, v. 37, May 1965: 114-117. (RPC)
- Lab Design Protects Staff From Infectious Materials.* Laboratory Management, v. 5, Apr. 1967: 28-31. (UBP)
- MAUPIN, PAUL AND ROBERT S. RUNKLE. *Containment Features of A Virus Isolation Facility.* Laboratory Management, v. 5, Oct. 1967: 26 and 29. (UBP)
- MCKINSEY, RICHARD D. AND GERALD M. SCHERBA. *Instructional Laboratories for Biology: An Essay in Design.* BioScience, v. 17, May 1967: 308-314. (AIB)
- MORSE, R. N. *Phytotron Design Criteria—Engineering Consideration.* Proceedings of a symposium on Engineering Aspects of Environment Control for Plant Growth, Sept. 1-5, 1962: 20-38. (CSI)
- MORSE, R. N. AND I. T. EVANS. *Design and Development of CERES—An Australian Phytotron.* Journal of Agricultural Engineering Research, v. 7, 1962: 128-140. (BSR)

- PHILLIPS, G. BRIGGS, EVERETT HANEL, JR. AND GARDNER GRAY GEMILLION. *Practical Procedures for Microbial Decontamination. Technical Manuscript 2, Project 4B11-05-015.* Fort Detrick, Md. U.S. Army Biological Laboratories, Mar. 1962. 29 p. (DDC)
- Planning of New Facilities for Biology Department.* BioScience, v. 16, Mar. 1966: 159-183. (AIB)
- ROSS, JAMES B., ed. *College Natural Areas as Research and Teaching Facilities. Proceeding of 1st National Symposium of College Natural Areas.* New York, N.Y. Reinhold Publishing Corp., 1963. 28 p. (RPC)
- Safety Cabinets Bibliography.* Fort Detrick, Md. U.S. Army Biological Laboratories, Safety Division, Mar. 1963. 4 p. (mimeograph)
- SCHRAMM, WERNER. *Chemistry and Biology Laboratories: Design Construction, Equipment.* New York, N.Y. Pergamon Press, 1960. 255 p. (PPI)
- SHAW, ALLAN. *An Environmental Plant Growth Chamber.* ASHRAE Journal, v. 9, Feb. 1967: 42-50. (ASH)
- SNOW, DONALD L. *Space Planning Principles for Biomedical Research Laboratories, Public Health Monograph No. 71.* Washington. U.S. Dept. of Health, Education, and Welfare, U.S. Govt. Print. Off., 1963. 56 p. (GPO)
- Standards for Staff and Facilities in Departments of Biological Science.* AIBS Bulletin, v. 13, June 1963: 14-19. (AIB)
- WEDUM, ARNOLD G. AND G. BRIGGS PHILLIPS, *Criteria for Design of a Microbiological Research Laboratory.* ASHRAE Journal, v. 6, Feb. 1964: 46-52. (ASH)
- WEDUM, ARNOLD G., G. BRIGGS PHILLIPS AND OTHERS. *Laboratory Design for Study of Infectious Disease.* American Journal of Public Health and The Nation's Health, v. 46, Sept. 1956: 1102-1113. (APH)
- WYATT, H. V. *The Design of Biological Laboratories.* Institute of Biology. London, Eng. F. J. Milner & Sons Limited, Nov. 1965. 69 p. (IOB)

B. CHEMISTRY FACILITIES

- Chemical Industries, ASHRAE Guide and Data Book, Applications for 1968. Chapter 35.* New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1968. (ASH)
- LEWIS, HARRY F., ed. *Laboratory Planning for Chemistry and Chemical Engineering.* New York, N.Y. Reinhold Publishing Corp., 1962. 522 p. (RPC)
- New Cornell Class-Lab Saves Space and Money.* Chemical and Engineering News, v. 44, Mar. 28, 1966: 40-41. (ACS)
- SCHRAMM, WERNER. *Chemistry and Biology Laboratories: Design, Construction, Equipment.* New York, N.Y. Pergamon Press, 1960. 255 p. (PPI)
- SMITH, DAVID T. *Shields and Barricades for Chemical Laboratory Operations.* Journal of Chemical Education, v. 41, July 1964: A520-A527. (ACS)
- TUFFLY, B. L., R. E. BELL AND R. J. THOMPSON, JR. *Designing a Chemical Research Laboratory.* Research/Development, v. 15, Mar. 1964: 44-48. (FDT)
- Upgrading Chemistry Buildings Too Costly.* New York, N.Y. Educational Facilities Laboratories, Inc., College News-letter, No. 3, (undated). 1 p. (EFL)
- WALLS, L. EARL. *Laboratory Bench—Giant Size.* Industrial and Engineering Chemistry, v. 48, Feb. 1956: 178-182. (ACS)

C. LIBRARY FACILITIES

- DOMS, KEITH AND HOWARD ROVELSTAD, ed. *Guidelines for Library Planners: Proceedings of the Library Buildings and Equipment Institute*. Chicago, Ill. American Library Association, 1960. 128 p. (ALA)
- HIGGINS, E. EUGENE. *Library Facilities Planning Aids, College and University Physical Facilities Series, OE-51004-3*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Mar. 1962. 15 p. (OED)
- JOHNSON, EDWARD, ed. *Library Furniture and Equipment. Proceedings of Institute at University of Miami, June 1962*. Chicago, Ill. American Library Association, 1963. 68 p. (ALA)
- ORNE, JERROLD. *Academic Library Building in 1968*. *Library Journal*, v. 93, Dec. 1968: 4493-4497. (RRB)
- POOLE, FRAZER G., ed. *The Library Environment. Proceedings of the Library Equipment Institute, at St. Louis, Mo., 1964*. Chicago, Ill. American Library Association, 1965. 69 p. (ALA)
- ROTH, HAROLD L., ed. *Planning Library Buildings for Service: Proceedings of the Library Buildings and Equipment Institute, Kent State University, 1961*. Chicago, Ill. American Library Association, 1964. 127 p. (ALA)
- The General Library*. Ann Arbor, Mich. Office of Research Administration, The University of Michigan. *Research News*, v. 15, Apr. 1965. 12 p. (ORA)
- WAKEFIELD, HOWARD E. *The Design and Construction of Libraries and Study Facilities: An Annotated Reference List*. Madison, Wis. Educational Resources Information Center, Nov. 1968. (unnumbered). (CEF)

D. MATHEMATICS AND PHYSICS FACILITIES

- A New Research Laboratory Plant of Modern Design*. Paris, France. *Acta Electronica*, v. 9, May 1965: 101-199. (LEP)
- Checklist for Physics Buildings*. New York, N.Y. American Institute of Physics, May 1965. 19 p. (AIP)
- FRAME, J. SUTHERLAND AND JOHN W. McLEOD. *Buildings and Facilities for the Mathematical Sciences*. Washington, D.C. Conference Board of the Mathematical Sciences, 1963, 169 p. (CBM)
- GOLDMAN, LEON AND PETER HORNBY. *Laser Laboratory Design and Personnel Protection from High Energy Lasers*. *Journal of Chemical Education*, v. 43, Apr. 1966: A335-A346. (ACS)
- HARRIS, FOREST K. *A Nonmagnetic Laboratory for the National Bureau of Standards*. *IEEE Spectrum*, v. 3, Nov. 1966: 85-87. (IEE)
- MAINNING, PETER. *Architecture Revisited: Leicester University*. *Interior Design*, Mar. 1968. 5 p. (WCC)
- MUNCE, JAMES F. *The Architect in the Nuclear Age: Design of Buildings to House Radioactivity*. London, Eng. Iliffe Books Limited, Dorset House, 1964. 241 p. (IBL)
- NASA Laboratory Blends Good Design with Good Construction Management*. *Building Construction*, v. 8, Dec. 1967: 61-64. (CPC)

PALMER, R. RONALD AND WILLIAM MAXWELL RICE. *Modern Physics Buildings: Design and Function.* New York, N.Y. Reinhold Publishing Corp., 1961. 324 p. (RPC)

Physics Building Today. A Supplement to Modern Physics Buildings. New York, N.Y. American Institute of Physics, July 1965. 64 p. (AIP)

RUSSEL, A. M. AND R. R. HEWITT. *Physics Building for the University of California, Riverside.* The American Journal of Physics, v. 31, June 1963: 417-428. (AIP)

Selected Reprints of Articles on Physics Buildings, Project on Design of Physics Buildings. New York, N.Y. American Institute of Physics, June 1959. 183 p. (AIP)

E. MEDICAL AND DENTAL FACILITIES

Adaptable Building System for Progressive Patient Care: Summary Report. College Station, Texas. Texas A & M University, Dec. 1967. 19 p. (TEX)

A Look At Hospital Construction. Chicago, Ill. American Medical Association, Department of Hospital and Medical Facilities, Division of Environmental Medicine and Medical Services, May 1964. 39 p. (AMA)

Areawide Planning of Facilities for Rehabilitation Services, Publication No. 930-B-2. Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, Apr. 1963. 88 p. (PHS)

BARD, BERNARD AND CAUDILL, ROWLETT & SCOTT, Architects. *A College Health Center.* New York, N.Y. Educational Facilities Laboratories, Inc., Case Study No. 6, (undated). 31 p. (EFL)

Dental School Planning, Publication No. 940. Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, 1962. 113 p. (PHS)

Design Features Affecting Asepsis in the Hospital, Pub. No. 930-D-9. Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, U.S. Govt. Print. Off., 1963. 20 p. (GPO)

Design For Medical Education: The Development and Planning of a Medical College and Care Center. Washington, D.C. The George Washington University, Feb. 1965. 41 p. (EFL)

GALSON, EDGAR AND KENNETH R. GODDARD. *Hospital Air Conditioning and Sepsis Control.* ASHRAE Journal, v. 10, July 1968: 33-41. (ASH)

General Standards of Construction and Equipment: General Hospitals, Publication No. 930-A-2. Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, U.S. Govt. Print. Off., 1962. 57 p. (GPO)

GOLDMAN, LEON AND PETER HORNBY. *The Design of a Medical Laser Laboratory.* Archives of Environmental Health, v. 10, Mar. 1965. 5 p. (AMA)

GREEN, ALAN C. *Educational Facilities in the Hospital for Teaching.* Troy, N.Y. Rensselaer Polytechnic Institute, School of Architecture, (undated). 9 p. (reprint). (CAR)

HIGGINS, E. EUGENE AND DOROTHY M. JONES. *Student Infirmary Planning Aids, College and University Physical Facilities Series, OE-51004-11.* Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Aug. 1962. 3 p. (OED)

Medical Application, ASHRAE Guide and Data Book, Applications for 1968, Chapter 48. New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1968. (ASH)

Medical Education Facilities: Planning Considerations and Architectural Guide, Publication No. 1180-A-1b. Washington. U.S. Dept. of Health, Education and Welfare, Public Health Service, U.S. Govt. Print. Off., 1964. 185 p. (GPO)

SOUDER, JAMES J. *Estimating Space Needs and Costs in General Hospital Construction.* Chicago, Ill. American Hospital Assoc., 1963. 32 p. (AHA)

U.S. Congress. Committee on Veterans' Affairs, *Facilities for Education in Veterans' Administration Hospitals.* Washington. U.S. Govt. Print. Off., 1965. 189 p. (89th Cong., 1st Sess. House. Document 72). (GPO)

F. PRIMARY AND SECONDARY SCIENCE FACILITIES

A Guide for Evaluating Your Science Facilities, rev. Chicago, Ill. Scientific Apparatus Makers Association in cooperation with the School Facilities Council, 1962. 16 p. (SAM)

BENET, JAMES AND OTHERS. *SCSD: The Project and the Schools.* New York, N.Y. Educational Facilities Laboratories, Inc., May 1967. 96 p. (EFL)

British Prefabricated School Construction, Report No. 2. Stanford, Calif. Educational Facilities Laboratories, Inc., School Planning Laboratory, (undated). 78 p. (EFL)

COLLINS, GEORGE J. AND WILLIAM L. STOMER. *Condition of Public School Plants, 1964-65, OE-21033, Misc. No. 50.* Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1965. 38 p. (OED)

ELLSWORTH, RALPH E. AND HOBART D. WAGNER. *The School Library: Facilities for Independent Study in the Secondary School.* New York, N.Y. Educational Facilities Laboratories, Inc., 1963. 143 p. (EFL)

GODFREY, ELEANOR P. *The Role of the Building Coordinator—Fact and Potential.* Audiovisual Instruction, v. 12, Feb. 1967: 104-109. (NEA)

GROSS, RONALD AND JUDITH MURPHY. *Educational Change and Architectural Consequences.* New York, N.Y. Educational Facilities Laboratories, Inc., 1968. 88 p. (EFL)

MACOMBER, ROBERT D. *Chemistry Accidents in High School.* Journal of Chemical Education, v. 38, July 1961: 367-368. (ACS)

MANNING, PETER. *Primary Schools: Design for Use Today and Tomorrow.* Journal of the Royal Institute of British Architects, v. 75, Aug. 1968: 376-380. (RIB)

——, ed. *The Primary School: An Environment For Education.* Liverpool, Eng. The Pilkinton Research Unit, 1967. 163 p. (RBL)

MURPHY, JUDITH. *Middle Schools.* New York, N.Y. Educational Facilities Laboratories, Inc., (undated). 64 p. (EFL)

MURTHA, D. MICHAEL. *Systematic Methods In School Planning and Design: A Selected and Annotated Bibliography.* ED 024 251. Madison, Wis. Educational Resources Information Center, 1968. 37 p. (NAC)

New Ideas for School Construction. Washington, D.C. Producer's Council, Inc., Aug. 1965. 64 p. (PCI)

- New Schools for New Education*. Ann Arbor, Mich. Conference Report, Educational Facilities Laboratories, Inc., Oct. 1959. 53 p. (EFL)
- NORTH, STEWART D. *Considerations in the Development and Use of Facilities for Independent Study. (Bibliography)*. Madison, Wis. Educational Resources Information Center, Sept. 1968. (various paging). (CEF)
- NOVAK, ALFRED AND NORMAN ABRAHAM. *Excellence in Biology Facilities*. *The Science Teacher*, v. 29, Mar. 1962: 14-15. (NST)
- OSBOURN, ELLSWORTH S., PAUL E. BLACKWOOD AND MARGARET J. MCKIBBEN. *Research in the Teaching of Science: July 1957-July 1959, OE-29000-59, Bulletin 1962, No. 3*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1962. 84 p. (OEI)
- REASON, PAUL L. AND GEORGE G. TANKARD, JR. *Property Accounting for Local and State School Systems, Handbook III, OE-21019*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1962. 194 p. (OED)
- Relocatable School Facilities, National Survey 1962-64*. New York, N.Y. Educational Facilities Laboratories, Inc., May 1966. 63 p. (EFL)
- RICHARDSON, JOHN S., ed. *School Facilities for Science Instruction*. Washington, D.C. National Science Teachers Association, 1954. 266 p. (NST)
- ROBERTS, CHARLES T. *Guide for Implementing Handbook III, Property Accounting for Local and State School Systems, OE-23029*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1963. 54 p. (OED)
- SCHLESSINGER, FRED R. *Science Facilities for Our Schools, K-12*. Washington, D.C. National Science Teachers Association, 1963. 26 p. (NST)
- School Construction Systems Development, Report No. 1*. Palo Alto, Calif. Educational Facilities Laboratories, Inc., School Planning Laboratory, Stanford University, Aug. 1962. 21 p. (EFL)
- School Planetariums*. *Architectural & Engineering News*, v. 9, Sept. 1967: 46-49. (HPC)
- The Cost of a Schoolhouse*. Educational Facilities Laboratories, Inc., International Press, 1960. 144 p. (EFL)
- The High School Auditorium: 6 Design for Renewal, Report*, New York, N.Y. Educational Facilities Laboratories, Inc., Feb. 1967. 23 p. (EFL)
- WAKEFIELD, HOWARD E. *Locating Educational Facilities: An Annotated Reference List*. Madison, Wis. Educational Resources Information Center, Nov. 1968. (unnumbered). (CEF)
- *Safety Factors in Educational Facilities: An Annotated Reference List*. Madison, Wis. Educational Resources Information Center, Nov. 1968 (unnumbered). (CEF)
- *Standards For Educational Facilities: An Annotated Reference List*. Madison, Wis. Educational Resources Information Center, Nov. 1968. (unnumbered). (CEF)

G. DORMITORY FACILITIES

- HIGGINS, E. EUGENE, MARY B. FULLER AND DOROTHY M. JONES. *Married-Student Apartment Planning Aids, College and University Physical Facilities Series, OE-51004-8*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, July 1962. 11 p (OED)

- HIGGINS, E. EUGENE, MARY B. FULLER AND DOROTHY M. JONES. *Residence Hall Planning Aids, College and University Physical Facilities Series, OE-51004-9*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, July 1962. 19 p. (OED)
- HIGGINS, E. EUGENE, M. LOUIS STEWART AND LINDA L. WRIGHT. *Residence Hall Planning Aids, College and University Physical Facilities Series, OE-51004-9A, rev.* Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Jan. 1965. 23 p. (OED)
- KRAMER, ROGER M. *Student Housing: A Selected and Annotated Bibliography*, ED 025 136. Madison, Wis. Educational Resources Information Center, 1968. 24 p. (NAC)
- MILLER, EWING H. *Put a Behavioral Scientist On Dormitory Design Team*. *College and University Business*, v. 44, Feb. 1968: 68-71. (MHP)

IV. DESIGN AND CONSTRUCTION

A. GENERAL LABORATORY DESIGN

- AGRAA, O. M. AND B. WHITEHEAD. *Nuisance Restrictions in the Planning of Single-Story Layouts*. *Building Science*, v. 2, Mar. 1968: 291-302. (PPI)
- BARNETT, JONATHAN. *Laboratory Buildings: The Architecture of the Unpredictable*. *Architectural Record*, v. 138, Nov. 1965: 173-196. (MHI)
- BEYVI, JAMES W. *Role of the Architect-Engineer in Planning and Building Research Facilities*. *Research/Development*, v. 15, Mar. 1964: 28-31. (FDT)
- BRASS, A. *An Annotated Bibliography on Laboratory Buildings*. Ottawa, Can. National Research Council. Division of Building Research. June 1959. 17 p. (NRC)
- DANIELS, ROBERT E. AND ARTHUR W. NEUBAUER. *Television in the Research Laboratory*. *Industrial Research*, v. 9, Nov. 1967: 77-82. (IRI)
- Design of Research Laboratories*. London, Eng. Nuffield Foundation, Division for Architectural Studies, Oxford University Press, 1961. 211 p. (OUP)
- FIANCE, SEYMOUR. *Using Industry Know-How In Planning Your Lab*. *Research/Development*, v. 15, Mar. 1964: 25-37. (FDT)
- FOX, GERTRUDE. *Design of Laboratory Facilities: A Classified List of Selected References, 1947-1962*. Bethesda, Md. N.I.H., Division of Research Services. Engineering Design Branch, 1962. 15 p. (EDB)
- *Design of Laboratory Facilities: A Classified List of Selected References, Supplement I, 1949-1963*. Bethesda, Md. N.I.H., Division of Research Services, Engineering Design Branch, July 1963. 6 p. (EDB)
- Health Research Laboratory Design*. Bethesda, Md. N.I.H., Division of Research Facilities and Resources, Office of Architectural and Engineering. U.S. Govt. Print. Off., Aug. 1968. 83 p. (GPO)
- HEIDER, SCOTT A. *How To Avoid Mechanical Design Problems In Laboratory Facilities*. *Heating, Piping & Air Conditioning*, v. 39, Apr. 1967: 118-123. (RPC)
- HIGGINS, E. EUGENE, MARY B. FULLER AND DOROTHY M. JONES. *Science Facilities Planning Aids, College and University Physical Facilities Series, OE-51004-2. (Bibliography)*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Mar. 1962. 15 p. (OED)
- HIGGINS, E. EUGENE, MARY B. FULLER AND LINDA L. WRIGHT. *Science Facilities Planning Aids, College and University Physical Facilities Series, OE-51004-2A, (Bibliography)*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Mar. 1964. 15 p. (OED)
- Higher Education Facilities Design Awards, 1966 Design Award Program*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, Bureau of Higher Education, (undated). (unnumbered). (OED)

- HOROWITZ, HAROLD. *Observation Room Windows*. *American Psychologist*. v. 24. Mar. 1969: 304-308. (ARC)
- JOHNSON, PAUL J., JR. *Remodeling the Existing Laboratory*. *Research/Development*. v. 15, Mar. 1964: 37-39. (FDT)
- KEEPING, GRAEME G. I. R. *Laboratory of the Year*. *Industrial Research*. v. 9. May 1967: 65-68. (IRI)
- KOPPEL, WAYNE F. AND ALAN C. GREEN. *Modular Coordination and School Design: A State-of-the-Art Report to the Architectural and Educational Professions*. Troy, N.Y. Center for Architectural Research, School of Architecture. Rensselaer Polytechnic Institute. May 1967. 99 p. (CAR)
- KUNHARDT, KEITH R. *Planning A Laboratory?* *Laboratory Management*. v. 6. Mar. 1968: 18-21. (UBP)
- Laboratories*. New York, N.Y. Voorhees Walker Smith Smith & Haines, Architects. Mar. 1961. 56 p. (HLW)
- Laboratories and Lecture Rooms. (Bibliography)*. Washington, D.C. Organization for Economic Co-Operation and Development Mission. May 1962. 118 p. (OEC)
- LEE, PETER V. *Multidiscipline Laboratories*. Los Angeles, Calif. University of Southern California. Apr. 1961. 4 p. (USC)
- MCCORMICK, ROBERT P. *How and Why We Modified Our R & D Lab*. *Research/Development*. v. 15. Mar. 1964: 40-43. (FDT)
- MELLOW, JAMES R. *The Multidiscipline Laboratory*. *Industrial Design*. v. 13. Mar. 1966: 40-43. (WPI)
- NORMAN, JESSE C. *How Much Space For Technicians? Part I*. *Laboratory Management*. v. 7, Feb. 1969: 44-46. (UBP)
- *How To Cope With Variables In Laboratory Design: Part II*. *Laboratory Management*. v. 7, Mar. 1969: 45-47. (UBP)
- *Planning Laboratory Suites: Part III*. *Laboratory Management*. v. 7. Apr. 1969: 26-28. (UBP)
- Problems Encountered In Lab Design*. *Laboratory Management*. v. 5. Feb. 1967: 16, 17 and 42-44. (UBP)
- Science At St. Andrews: Mix Well and Call It Interdisciplinary*. *College Management*, v. 3. Apr. 1968: 11, 14-16, 18-19. (MPG)
- Science Building No. 2, State University of New York College at New Paltz, Project No. 0810*. Albany, N.Y. State University Construction Fund. (undated). (unnumbered). (SUC)
- SMITH, HERBERT L., JR., ed. *Buildings for Research*. F. W. Dodge Corp., 1958. 224 p. (FWD)
- Videotaping Research In Laboratory*. *Laboratory Management*. v. 5. Nov. 1967. 19-23. (UBP)
- WALLEIGH, ROBERT S. *Controlled Environment for Meaningful Measurement*. *Research/Development*, v. 20, Jan. 1969: 16-21. (FDT)
- WESTERFELD, WALTER. *Lab Lets Students Switch On Science*. *College and University Business*. v. 42. Apr. 1967: 95-96. (MHP)

B. BUILDING CIRCULATION

- AGRAA, O. M. AND B. WHITEHEAD. *A Study of Movement in a School Building*. Building Science, v. 2, Mar. 1968: 279-289. (PPI)
- American Standard Specifications for Making Buildings and Facilities Accessible to, and Usable by, the Physically Handicapped*. New York, N.Y. U.S. of America Standards Institute, 1961. 12 p. (ASA)
- Buildings Standards for the Handicapped, Supplement No. 7 to the National Building Code of Canada*. Ottawa, Can. National Research Council, 1965. 20 p. (NRC)
- Design for all Americans*, Washington. U.S. Dept. of Health, Education and Welfare, U.S. Govt. Print. Off., 1967. (unnumbered). (GPO)
- HILLEARY, JAMES F. *Buildings for All to Use: the Goal of Barrier-Free Architecture*. AIA Journal, v. 51, Mar. 1969: 40-50, 82 and 84. (AIA)
- Horizontal and Vertical Circulation in University Instructional and Research Buildings*. Madison, Wis. University Facilities Research Center. University of Wisconsin, May 1962. 19 p. (EFL)
- Loading Docks: A Key Design Area*. Architectural Record, v. 143, May 1968: 200-202. (MHI)
- Making Facilities Accessible to the Physically Handicapped: Performance Criteria*. Albany, N.Y. State University Construction Fund, July 1967. 40 p. (SUC)

C. AUDITORIA AND LECTURE ROOMS

- An Auditorium Teaching Facility*. Austin, Texas. The University of Texas, 1963. (unnumbered). (EFL)
- BARNARD, W. ROBERT AND OTHERS. *Teaching Aids: The Modern Chemistry Classroom*. Journal of Chemical Education, v. 45, Jan. 1968: 63-70. (ACS)
- Divisible Auditoriums*. New York, N.Y. Educational Facilities Laboratories, Inc., May 1966. 48 p. (EFL)
- HAUF, HAROLD D. AND OTHERS. *New Spaces for Learning: Designing College Facilities to Utilize Instructional Aids and Media*, rev. Troy, N.Y. Center for Architectural Research, School of Architecture, Rensselaer Polytechnic Institute, June 1966. 137 p. (CAR)
- MCVEY, GERALD. *Equipping a Multimedia Lab for Action*. American School and University, v. 41, Nov. 1968: 38-40. (BPC)
- Modern Teaching Aids for College Chemistry, Serial Publication No. 18*. Stanford, Calif. Advisory Council on College Chemistry, Stanford University, Dec. 1966. 46 p. (ACC)
- New Buildings on Campus: Six Designs for a College Communications Center*. New York, N.Y. Educational Facilities Laboratories, Inc., 1963. (unnumbered). (EFL)
- O'CONNOR, ROD AND WENDELL SLABAUGH. *Teacher-Produced Instructional Films in Chemistry, Serial Publication No. 31*. Stanford, Calif. Advisory Council on College Chemistry, Stanford University, Dec. 1967. 33 p. (ACC)

Project Reward . . . And Campus Building. Troy, N.Y. Center for Architectural Research, School of Architecture, Rensselaer Polytechnic Institute, 1969. 38 p. (CAR)

WADSWORTH, RAYMOND H. *The Practical Considerations In Designing Audio-Visual Facilities.* Architectural Record, v. 144 July 1968: 149-160. (MHI)

D. LEARNING ENVIRONMENT

Bibliography of Environmental Design References, ED 022 357. Madison, Wis. Educational Resources Information Center, Jan. 1968. (various paging). (NAC)

CARPENTER, C. R. AND OTHERS. *A Faculty Office Study: Design and Evaluation, Report.* New York, N.Y. Educational Facilities Laboratory, Inc., Dec. 1961. 18 p. (EFL)

Environmental Abstracts, Series 1, 2, and 3. Ann Arbor, Mich. Architectural Research Laboratory, School Environments Research Project, University of Michigan, Feb. 1965. 765 p. May 1965. 186 p. July 1965. 23 p. (EFL)

GOOD, LAWRENCE R., SAUL M. SIEGEL AND ALFRED PAUL BAY. *Therapy By Design: Implications of Architecture for Human Behavior.* Springfield, Ill. Charles Thomas, Pub., 1965. 193 p. (CTP)

HARTMAN, MICHAEL. *The Luminous Environment of the Classroom: A Selected and Annotated Bibliography,* ED 024 250. Madison, Wis. Educational Resources Information Center, 1968. 12 p. (NAC)

HEMINGWAY, HUGH L. *Creativity and the Physical Environment.* Research/Development, v. 15, Mar. 1964: 49-52. (FDT)

MARTIN, DIKRAN J. *Design Portfolio for Faculty Offices.* College and University Business, v. 44, Mar. 1968: 69-76. (MHP)

MAYHEW, LEWIS B. *New Frontiers in Learning, Report of a Conference Sponsored by Stephens College.* Columbia, Mo. Educational Facilities Laboratories, Inc., 1959. 38 p. (EFL)

Profiles of Significant Schools: Schools Without Walls. New York, N.Y. Educational Facilities Laboratories, Inc., (undated). 56 p. (EFL)

STOKE, STUART AND OTHERS. *Student Reactions to Study Facilities.* Amherst, Mass., 1960. 60 p.

Student Residence—Research Aspects, A Report of a Conference Organized by The Society for Research Into Higher Education. London, Eng. Dec. 1965. 48 p. (SFR)

E. SOUND CONTROL

Acoustics and Educational Facilities: A Guide for Planners and Administrators. Albany, N.Y. State Education Department, Division of Educational Facilities Planning, 1966. 118 p. (SED)

BERENDT, RAYMOND D. AND OTHERS. *A Guide to Airborne, Impact, and Structure Borne Noise: Control in Multifamily Dwellings.* Washington. U.S. Department of Housing and Urban Development. U.S. Govt. Print. Off., Sept. 1967 (various paging). (GPO)

Criteria For Acoustic Treatment for University Buildings, Report No. 1048. Albany, N.Y. State University Construction Fund, (undated). (unnumbered). (SUC)

FISCHER, ROBERT E. *Some Particular Problems of Noise Control*. *Architectural Record*, v. 144, Sept. 1968: 185-192. (MHI)

FITZROY, DARLL AND JOHN LYON REID. *Acoustical Environment of School Buildings*. New York, N.Y. Educational Facilities Laboratories, Inc., 1963. 128 p. (EFL)

NEWMAN, ROBERT B. *Acoustics in Research Facilities—Control of Unwanted Sound, Laboratory Design Notes*. Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, May 1965. 5 p. (DER)

POHL, JENS G. *Artificial Sound Blankets in Modern School Planning*. *Architectural Science Review*, v. 11, June 1968: 61-66. (PPP)

Practical Application of Sheet Lead for Sound Barriers. New York, N.Y. Lead Industries Association, May 1965. 12 p. (LIA)

F. INTERIOR SURFACES

FURSE, AFFRED S. *Vinyl Wall Coverings*. *The Construction Specifier*, v. 20, May 1968: 89-92. (TCS)

Interior Finishes/Floors, Walls, Ceilings. Albany, N.Y. State University Construction Fund, Research and Development Division, 1968. 46 p. (SUC)

KARLE, CARL J. *Seamless Flooring*. *The Construction Specifier*, v. 22, Apr. 1969: 57-61. (TCS)

KRAMER, ROGER M. *The Use of Carpeting In the School: A Selected and Annotated Bibliography*, ED 025 135. Madison, Wisc. Educational Resources Information Center, 1968. 14 p. (NAC)

PRINTZ, EARL, JR. *Carpeting*. *The Construction Specifier*, v. 22, Apr. 1969: 34-41. (TCS)

Selecting Interior Finishes for College Buildings. *Architectural Record*, v. 141, May 1967: 197-198. (MHI)

TYNSKY, J. R. *Epoxy Floor Covering Characteristics*. Bethesda, Md. N.I.H., Division of Research Services, Engineering Design Branch, (undated). 7 p. (EDB)

——— *Monolithic Flooring for Specific Pathogen Free Animal Rooms*. Bethesda, Md. N.I.H., Division of Research Services, Engineering Design Branch, Jan. 1965. 16 p. (EDB)

G. LABORATORY FURNITURE

Architect Designs Modular Laboratory Bench. *Architectural and Engineering News*, v. 10, Sept. 1963: 65-66. (HPC)

A Study of Laboratory Furniture and Its Use In Government & University Research Laboratories. *Industrial Research*, v. 6, Mar. 1964. 6 p. (IRI)

CONWAY, PATRICIA L. *Developing the Product: Laboratory Furniture*. *Industrial Design*, v. 13, Mar. 1966: 30-35. (WPI)

FARR, ROBERT N. *Laboratory Furniture: Form & Function*. *Laboratory Management*, v. 5, May 1967: 12-14 and 26-37. (UBP)

HALLENBERG, E. X. *What the R & D Man Needs in Scientific Furniture and Why*. *Research/Development*, v. 15, Mar. 1964: 32-36. (FDT)

- HORNESSE, JOSEPH. *What the Scientific Furniture Industry Offers the Lab Planner*. Research/Development, v. 15, Mar. 1964: 22-24. (FDT)
- IRVING, JAMES R. *Trends in Laboratory Furniture*. Industrial Research, v. 6, Mar. 1964: 54-59. (IRI)
- Keep It Clean*. Chicago, Ill. Scientific Apparatus Makers Association, (undated). 4 p. (SAM)
- SPILMAN, EDRA. *The Multidiscipline Laboratories*. Journal of Medical Education, v. 33, Feb. 1958: 168-174. (AAM)
- TYNSKY, JOSEPH R. AND J. CLYDE SELL. *Laboratory Benchtop Materials, Project R-37*. Bethesda, Md. N.I.H., Division of Research Services, Engineering Design Branch, Sept. 1965. 12 p. (EDB)

H. CENTRAL SERVICE PLANTS

- Apartment House Incinerators, Publication No. 1280*. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1965. 38 p. (NAS)
- BLOSSOM, JOHN S. *Compare MTW, High Pressure Steam for Distribution to Expanded Campus*. Heating, Piping & Air Conditioning, v. 39, Aug. 1967: 106-108. (RPC)
- Central System for 1700 Acre Campus*. Heating, Piping & Air Conditioning, v. 34, Apr. 1964: 116-118. (RPC)
- Combustion Equipment and Related Facilities for Non-Residential Heating Boilers, Publication No. 1294*. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1966. 119 p. (NAS)
- D'AUTREMONT, HUGH. *Design HTW System for University of Nevada*. Heating Piping & Air Conditioning, v. 38, Mar. 1966: 99-104. (RPC)
- Evaluation of Components for Underground Heat Distribution Systems, Publication No. 1196*. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1964. 22 p. (NAS)
- Field Investigation of Underground Heat Distribution Systems, Publication No. 1144*. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1963. 114 p. (NAS)
- Field Investigation of Underground Heat Distribution Systems, Supplementary Publication No. 1481*. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1966. 25 p. (NAS)
- JAMISON, GRAHAEME C. *Hot Water Consumption in Two College Dormitories and a Public High School*. ASHRAE Journal, v. 8, May 1966: 80. (ASH)
- LITTLE, PHILLIP F. *Economic Factors Affecting Selection of Refrigeration Equipment for College and University Campuses*. Syracuse, N.Y. Carrier Air Conditioning Co., (undated). 16 p. (CAC)
- *Which Refrigeration System is Best for your School?* Actual Specifying Engineer, v. 9, 1963. 3 p. (MPI)
- SCHLOSBERG, ALBERT M. *Centralized vs. Decentralized Chiller Air-Conditioning Systems for University Complexes*. ASHRAE Journal, v. 8, Dec. 1966: 62-66. (ASH)
- SYSKA & HENNESSY, Inc., Engineers. *Energy Systems*, New York, N.Y. Technical Letter, v. 18, Jan. 1968. 4 p. (SHI)

Total Energy, Technical Report No. 2. New York, N.Y. Educational Facilities Laboratories, Inc., Mar. 1967. 53 p. (EFL)

Underground Heat Distribution Systems, Proceedings of a Symposium/Workshop Report, Publication No. 1412. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1966. 112 p. (NAS)

Underground Heat Distribution Systems, Publication No. 1186. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1964. 23 p. (NAS)

I. HEATING, VENTILATION AND AIR CONDITIONING

Animal Room Ventilation. Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, Facilities Planning Office, Sept. 1961. 6 p. (mimeograph)

ASHRAE Guide and Data Book, Equipment, 1969. New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1969. (ASH)

BIRKEN, MARVIN N. *Cooling Computers.* Heating, Piping & Air Conditioning, v. 39, June 1967: 125-128. (RPC)

BLOSSOM, JOHN S. *Compare Alternate System Costs For District Chilled Water Plant.* Heating, Piping & Air Conditioning, v. 39, July 1967: 103-108. (RPC)

BOUILLON, LINCOLN. *Balancing and Testing, The Forgotten Phase of Construction.* Paper presented at Annual Meeting, Pacific Coast Association of National Association of Physical Plant Administrators of Universities and Colleges. Seattle, Wash. Oct. 1965. 9 p. (APP)

BREWER, N. R. *Estimating Heat Produced by Laboratory Animals.* Heating, Piping & Air Conditioning, v. 36, Oct. 1964: 130-141. (RPC)

CALLAHAN, J. J. *Heating and Cooling a Temporary Factory.* Air Engineering, v. 5, Dec. 1963: 28-32. (BNP)

CLARKE, JOHN H. *Air Flow Around Buildings.* Heating, Piping & Air Conditioning, v. 39, May 1967: 145-154. (RPC)

——— *Effective Stack Design in Air Pollution Control.* Heating, Piping & Air Conditioning, v. 40, Mar. 1968: 125-133. (RPC)

——— *Requirements for Freeze Protection for Ventilation and Air-Conditioning Systems.* ASHRAE Journal, v. 9, July 1967: 40-44. (ASH)

——— *Ventilation in Plant Design.* National Safety Congress Transactions, v. 12, 1962: 27-36. (NSC)

CREDLE, KENNETH L. *Effects of Glazing and Building Orientation on Hospital Air-Conditioning Costs.* PHS Publication No. 930-D-18. Washington. U.S. Dept. of Health, Education and Welfare, May 1965. 8 p. (PHS)

Educational Facilities. ASHRAE Guide and Data Book, Applications for 1968, Section 1, Chapter 4. New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1968. (ASH)

ECONOMIDES, LEANDER. *Design Criteria for Laboratory Air Conditioning Systems, Symposium on Air Conditioning of Research & Test Facilities.* ASHRAE Journal, v. 6, Sept. 1964: 48-50. (ASH)

- Effective Distribution of Supply-Air to Workers.* Michigan's Occupational Health, v. 10, Summer 1965. 12 p. (MOH)
- ELLIOTT, TOM. *Where Total Energy Systems Appear Feasible.* Heating, Piping & Air Conditioning, v. 39, July 1967: 116-118. (RPC)
- FLANAGAN, ROBERT W. *Medical Development Process Integrated with Air Conditioning at AEC's Ames Lab.* Heating, Piping & Air Conditioning, v. 34, July 1962: 97-102. (RPC)
- GALSON, EDGAR AND KENNETH R. GODDARD. *Hospital Air Conditioning and Sepsis Control.* ASHRAE Journal, v. 10, July 1968: 33-41. (ASH)
- GERRARD, MARTHA. *Measurement of Ventilation Rates with Radioactive Tracers.* ASHRAE Journal, v. 10, Sept. 1968: 47-50. (ASH)
- GODDARD, K. R. *Hospital Ventilation System Design.* ASHRAE Journal, v. 8, Oct. 1966: 46-49. (ASH)
- Good Practice Recommendations in the Field of Heating, Ventilating, and Air Conditioning for Health-Related Research Laboratories, Laboratory Design Notes.* Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, May 1966. 15 p. (DER)
- GREEN, FRANK. *Computer Room Air Distribution.* ASHRAE Journal, v. 9, Feb. 1967: 63-64. (ASH)
- GREENBERG, ALFRED. *Air-Conditioning Design Guides for Laboratory Facilities.* Architectural Record, v. 135, May 1964: 197-201. (MHP)
- *Air-Conditioning of Auditorium-Type Buildings.* Architectural Record, v. 135, Mar. 1964: 205-208. (MHP)
- GREENBERG, ALFRED, H. TAYLOR KAHOE AND MELVIN J. WIND. *Balancing Procedures Developed for Air Distribution Systems.* ASHRAE Journal, v. 11, May 1969: 35-39. (ASH)
- Guidelines for Designing Research Animal Room Air Conditioning Systems.* Heating, Piping & Air Conditioning, v. 36, Jan. 1964: 171-186. (RPC)
- HARTMANN, ROBERT R. *Thermal Environment In School Facilities: A Selected and Annotated Bibliography,* ED 024 252. Madison, Wis. Educational Resources Information Center, 1968. 24 p. (NAC)
- Heating, Reclaim System Earns Top Marks At University of Pittsburgh Extension.* Building Construction, v. 10, June 1968: 70-74. (CPC)
- HEIDER, SCOTT A. *How To Avoid Mechanical Design Problems In Laboratory Facilities.* Heating, Piping & Air Conditioning, v. 39, Apr. 1967: 118-123. (RPC)
- HEMEON, WESLEY C. L. *Plant and Process Ventilation, 2d ed.* New York, N.Y. Industrial Press, 1963. 481 p. (IPI)
- HINES, THOMAS C. AND BARTLETT R. SMALL. *Various Means of Supplying Make-Up Air to Industrial Buildings.* ASHRAE Journal, v. 5, Apr. 1963: 73-77. (ASH)
- Industrial Ventilation: A Manual of Recommended Practice, 8th ed.* Lansing, Mich. American Conference of Governmental Industrial Hygienists, 1964. 236 p. (ACG)
- Influence of Air Conditioning on Work Production, Research Division Technical Bulletin PBR-161.* Washington. General Services Administration, Public Buildings Service, Jan. 1959. 8 p. (GSA)

- Laboratories & Engine Test Facilities, ASHRAE Guide and Data Book, Applications for 1968, Chapter 10.* New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1968. (ASH)
- MATNEY, WILLIAM B. *Ceiling Plenum Is Air "Source/Sink" In Air Conditioned Research Building.* Heating, Piping & Air Conditioning, v. 40, Sept. 1968: 117-123. (RPC)
- MECKLER, GERSHON, CLARK W. PENNINGTON AND THOMAS N. HUMPHREVILLE. *Energy Integrated Lighting-Heating-Cooling System.* American Society of Heating, Refrigerating and Air-Conditioning Engineers, 71st Annual Meeting, ASHRAE, Cleveland, Ohio. June 29-July 1, 1964. 11 p. (preprint) (ASH)
- MEISENZAHL, THOMAS W. *Dehumidification System Safeguard Sensitive Instruments.* Laboratory Management, v. 5, Sept. 1967: 36-39. (UBP)
- MUNKELT, F. H. *Air Purification and Deodorization By Use of Activated Carbon.* Refrigerating Engineering, v. 56, Sept. 1948: 1-8. (Section 2) (ASH)
- NORMAN, JESSE C. *Modern Air-Handling Systems for Medical Diagnostic Laboratories.* Laboratory Management, v. 6, May 1968: 24-26, 28, 29, 32 and 33. (UBP)
- Radiation Routs 100 at Hopkins.* The Evening Star. Washington, D.C. Tues., Feb. 21, 1967. (ESN)
- SCHLOSBERG, ALBERT M. *Centralized vs Decentralized Chiller Air-Conditioning Systems for University Complexes.* ASHRAE Journal, v. 8, Dec. 1966: 62-66. (ASH)
- Solar Energy Offers Advantages For Laboratory Buildings.* Laboratory Management, v. 5, July 1967: 32-40. (UBP)
- STEERE, NORMAN V. *Laboratory Ventilation and Safety.* Research/Development, v. 16, June 1965: 20-25. (FDT)
- *Ventilation of Laboratory Operations, Handbook of Laboratory Safety, Chapter 3.1.* Cleveland, Ohio. The Chemical Rubber Co. 1967. 9 p. (CRC)
- STOCKWELL, RICHARD E. *The Confusion In Testing and Balancing of Air Conditioning Systems.* Heating, Piping & Air Conditioning, v. 39, July 1967: 114-116. (RPC)
- SYLVESTER, GORDON C. *Performance of Heat-Removal Troffer With a Specific Building Design.* American Society of Heating, Refrigerating and Air-Conditioning Engineers, 71st Annual Meeting, ASHRAE, Cleveland, Ohio. June 29-July 1, 1964. 6 p. (preprint) (ASH)
- SYSKA & HENNESSY, INC., Engineers. *Choosing Qualified Operating Personnel.* New York, N.Y. Technical Letter, v. 16, Dec. 1966. 4 p. (SHI)
- *Space Planning For Mechanical and Electrical Systems.* New York, N.Y. Technical Letter, v. 17, Sept. 1967. 6 p. (SHI)
- TILLER, TREVOR R. AND FREDERICK H. KOHLLOSS. *Energy Cost for Air Conditioning of Office Buildings in Mild Winter Climates.* Chicago, Ill. Preprint for ASHRAE Semi-Annual Meeting, Jan. 1965. 11 p. (ASH)
- TURK, AMOS AND OTHERS. *Sulfur Hexafluoride As a Gas-Air Tracer.* Environmental Science and Technology, v. 2, Jan. 1968: 44-48. (ACS)
- WADZECK, G. B. *Air Conditioning Costs for Schools.* Statements from Address made in Cleveland, Ohio. June 29, 1964. 2 p. (SAN)

WALTER, CARL W. *Cross-Infection in Hospitals*. ASHRAE Journal, v. 8, Oct. 1966: 41-45. (ASH)

WEMER, JOHN A. "Split-Function" Cooling Cycle for Vertical Laminar Flow Clean Rooms. Heating, Piping & Air Conditioning, v. 39, Nov. 1967: 113-115. (RPC)

WILSON, MAURICE J. *Economics of Central vs. Decentralized Chilling Plants for Universities*. Stanford, Calif. National Association of Physical Plant Administrators of Universities and Colleges. Minutes of 53rd Annual Meeting at Stanford University, May 1966: 145-174. (APP)

— *Five Climate Control Techniques for Schools*. Actual Specifying Engineer, 1963. 6 p. (reprint) (MPI)

— *Practical Considerations in School Climate Control and Systems Selection*. Heating, Piping & Air Conditioning, v. 33 and 34, Dec. 1961-Jan. 1962. 12 p. (reprint) (RPC)

WIND, MELVIN J. *Air Balancing And Testing*. Heating, Piping & Air Conditioning, v. 40, Dec. 1968: 112-118 (RPC)

YORK, J. E. *Ventilation and Air-Conditioning for Laboratories*. Heating and Ventilating, v. 50, Nov. 1953: 80-86. (IPI)

J. AIR FILTRATION AND TREATMENT

CROW, LOREN W. *The Atmosphere As a Common Carrier*. Heating, Piping & Air Conditioning, v. 40, Mar. 1968: 134-139. (RPC)

DANIELSON, JOHN A., ed. *Air Pollution Engineering Manual, Publication No. 999-AP-40*. Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, 1967. 892 p. (PHS)

DECKER, HERBERT M. AND OTHERS. *Air Filtration of Microbial Particles, Publication No. 953*. Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, 1963. 43 p. (reprint) (PHS)

Design Requirements for Ultraviolet Installations. Fort Detrick, Md. U.S. Army Biological Laboratories, Dec. 1960. 6 p. (mimeograph)

DILL, RICHARD S. *A Test Method for Air Filters*. ASHVE Transactions, v. 44, June 1938: 379-381. (ASH)

— *Elements of Apparatus Used in Dust Spot Method of Testing Air Filters at the National Bureau of Standards*. Washington. National Bureau of Standards, Nov. 1957. 7 p. (NBS)

EMANUEL, A. G. *Potassium Permanganate Offers New Solution to Air Pollution Control*. Air Engineering, v. 7, Sept. 1965. 3 p. (BNP)

GORDON, DAVID AND DAVID STANDLEY. *Protecting Interiors From Pollution*. Architectural and Engineering News, v. 11, Jan. 1960: 30-31. (HPC)

GOVAN, FRANCIS A. *Selection and Maintenance of Air Filters, Publication No. 703*. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1959. 40 p. (NAS)

GROSSMANN-COOPER, ANNA. *Air Pollution Publications: A Selected Bibliography 1955-1963, Publication No. 979, rev.* Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, 1964. 1774 p. (PHS)

- Guide to Research in Air Pollution, 5th Ed., Publication No. 981.* Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, 1962. 78 p. (PHS)
- HARRIS, GEORGE J., GARDNER GERMILLION AND PAUL H. TOWSON. *Text New Electric Incinerator Design for Sterilizing Laboratory Air.* Heating, Piping & Air Conditioning, v. 36, Feb. 1964: 94-95. (RPC)
- HELLBERG, E. N. *Statistical Analysis of Six Ventilation Air Filters, Technical Report 156.* Port Hueneme, Calif. U.S. Naval Civil Engineering Laboratory, July 1961. 20 p. (DDC)
- HUME, WILLIAM A. *Factors in Verification of Cleanliness.* Research/Development, v. 16, July 1965: 22-26. (FDT)
- MARGARD, W. L. AND R. F. LOGSDON. *An Evaluation of the Bacterial Filtering Efficacy of Air Filters in the Removal and Destruction of Air-Borne Bacteria.* ASHRAE Journal, v. 7, May 1965: 49-54. (ASH)
- Odor Control, ASHRAE Guide and Data Book, Systems and Equipment for 1967, Chapter 65.* New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1967. (ASH)
- PETTIBONE, C. A., W. E. MATSON AND W. B. ACKLEY. *Control of Carbon Dioxide Content in an Air-Supported Plastic Greenhouse, Publication No. ARS 42-92.* Washington. U.S. Dept. of Agriculture, Agricultural Research Service, Jan. 1964. 8 p. (ARS)
- PHILLIPS, G. BRIGGS AND OTHERS. *Microbiological Contamination Control: A State of the Art Report.* American Association for Contamination Control, (undated). 7 p. (AAC)
- *Applications of Germicidal Ultraviolet In Infectious Disease Laboratories.* Animal Care Panel, Inc. Proceeding of Meeting in Chicago, Ill., Nov.-Dec. 1956. 10 p. (AAL)
- SMITH, WELDON A. *Electronic Air Cleaners and Their Application.* Air Conditioning, Heating and Ventilating, v. 58, July 1961: 57-60. (IPI)
- SUTTON, D. J., H. A. CLOUD AND P. E. MCNALL, JR. *Methods and Results of the Evaluation of Air Filters on Ragweed Pollen.* ASHRAE Journal, v. 7, May 1965: 55-61. (ASH)
- VERNER, W. C. AND M. S. EDSALL. *Analysis of Economic Factors in Catalytic Air Treatment.* Air Engineering, v. 7, Oct. 1965: 38-42 and 50. (BNP)
- VISSMAN, WARREN. *Control of Odors in Working and Industrial Environments.* Air Engineering, v. 7, Dec. 1965: 18-26. (BNP)
- WARNER, PETER AND JANE DOHERTY. *Bacteriology of Air Conditioning Ducts with Special Reference to Operating Rooms.* Canadian Medical Association Journal, v. 88, Feb. 1963: 416-419. (CMA)
- WHITLOCK, RICHARD G. *Exhaust Air Cleaners—How to Choose The Correct Type.* Air Engineering, v. 7, May 1965: 29-32 and 36-40. (BNP)

K. UTILITIES DISTRIBUTION

- Basic Utility Distribution System, Laboratory Design Notes.* Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, (undated). 10 p. (DER)

Elevated Floor Permits "Impossible Time Schedule" and Great Flexibility. Architectural Record, v. 141, Apr. 1967: 227-228. (MHI)

KOECHER, RAY C. *Core System Lab Concept Insures Long Term Flexibility and Adaptability for M.I.T. M/E System.* Building Construction, v. 8, Jan. 1967: 58-62. (CPC)

SYSKA & HENNESSY, INC., Engineers, *Laboratories and Technical Facilities, Part 3: Space Planning for Laboratory Services.* New York, N.Y. Technical Letter, v. 17, Apr. 1967. 5 p. (SIII)

——— *Space Planning for Mechanical and Electrical Systems.* New York, N.Y. Technical Letter, v. 17, Sept. 1967. 6 p. (SHI)

L. PIPED SERVICES

Federal Agency Practices on Use of Piping, Survey of Practice Report No. 7, Publication No. 1572. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1967. 99 p. (NAS)

Plumbing Fixture Requirements in University Instructional and Research Buildings. Madison, Wis. University Facilities Research Center, University of Wisconsin, Oct. 1961. 20 p. (EFL)

Rigid Thermoplastic Pipe and Fittings for Residential Drain Waste and Vent Systems, Publication No. 1407. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1966. 32 p. (NAS)

SELL, J. CLYDE. *Distilled Water Distribution Systems, Laboratory Design Notes.* Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, July 1966. 13 p. (DER)

——— *For Piping Corrosive Wastes . . . Glass, Metal or Plastic?* Plant Engineering, v. 18, Apr. 1964: 121-124. (RFC)

SMITH, VERITY CARLISLE. *Distilled Water: The P's & Q's of Piping Distribution.* Laboratory Management, v. 4, Feb. 1966: 26-27, 30-31, 52 and 53. (UBP)

——— *Methods of Producing and Handling High Purity Water, Laboratory Design Notes.* Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, Nov. 1964. 24 p. (DER)

SYSKA & HENNESSY, INC., Engineers. *Laboratories and Technical Facilities, Part 1: Handling and Disposal of Liquid Waste.* New York, N.Y. Technical Letter v. 16, June 1966. 4 p. (SHI)

M. ELECTRICAL SERVICES

BROOKS, ROBERT A. *Designing Electrical Safety Into Building, Monograph No. 19.* Chicago, Ill. National Safety Council, Campus Safety Association, July 1964: 81-99. (NSC)

EHRENKRANZ, T. E. *Explosion-Proof Electrical Equipment, Handbook of Laboratory Safety, Chapter 8.3.* Cleveland, Ohio. The Chemical Rubber Co., 1967. 4 p. (CRC)

Good Practice Recommendations in the Field of Electrical Power and Distribution for Health Related Research Laboratories, Laboratory Design Notes. Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, Oct. 1966. 24 p. (DER)

LANGE, A. Q. *Proper Electrical Grounding Safeguards Laboratory*. *Laboratory Management*, v. 5, Aug. 1967: 28-29. (UBP)

Packaged Electric Steam Generators for Small Laboratories or Intermittent Use, Laboratory Design Notes. Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, (undated). 2 p. (DER)

SYSKA & HENNESSY, Inc., Engineers. *Emergency Power*, New York, N.Y. Technical Letter, v. 17, Nov. 1967. 5 p. (SHI)

WALSH, F. J. *Planning for Reliable Electric Power, Part 1*. *Architectural Record*, v. 139, Feb. 1966: 187-192. (MHI)

— *Planning for Reliable Electric Power, Part 2*. *Architectural Record*, v. 139, Mar. 1966: 185-188. (MHI)

N. FIRE PROTECTION

AHERN, JOHN J. *Fire Protection In Plant Design*. National Safety Congress Transaction, v. 12, 1962: 36-38. (NSC)

BOTTERI, B. P. *Fire Protection for Oxygen Enriched Atmosphere Applications*. Fire Hazards and Extinguishment Conference. Brooks Air Force Base, Texas. Aerospace Medical Division, May 1967. 22 p. (CFS)

Colleges Fight Fire With Electronics. *College and University Business*, v. 45, Oct. 1968: 88-94. (MHP)

FINCHUM, R. N. *Fire Insurance Economies Through Plant Management, OE-21029*. Washington. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1965. 81 p. (OED)

FINCHUM, R. N. AND GLENN C. BOERRIGTER. *School Fires: Prevention/Control/Protection, OE-21017*. U.S. Dept. of Health, Education, and Welfare, Office of Education, 1962. 130 p. (OED)

Fire Protection in the Chemical Industry, Safety Guide SG-17. Washington, D.C. Manufacturing Chemists' Association, Inc., 1964. 8 p. (MCA)

LINDQUIST, ROBERT W. *Lightning Protection*. *The Construction Specifier*, v. 20, Apr. 1968: 28-32. (TCS)

PELLETIER, G. A. *Principles of Fire Protection*. *ASHRAE Journal*, v. 10, Aug. 1968: 40-42. (ASH)

Proceedings of Fire Hazards and Extinguishment Conference. AMDTR 67-2. Brooks Air Force Base, Texas. Aerospace Medical Division, May 1967. 206 p. (DDC)

Safety and Fire-Prevention Guide. Bethesda, Md. N.I.H., Safety Office, Plant Safety Branch, 1960. 19 p. (SAF)

SHOUR, HARRY. *An Annotated Bibliography on Carbon Tetrachloride as a Fire Extinguishant, AD-650 735*. Washington. U.S. Dept. of Commerce, Federal Fire Council, Apr. 1967. 9 p. (CFS)

TRYON, GEORGE H., ed. *Fire Protection Handbook, 12th ed., National Fire Protection Association International*. Boston, Mass. 1962. (various paging). (NFP)

WOOD, WILLIAM S. *Flammable Materials—System for Rating*. National Safety Congress Transactions, 1957. 4 p. (NSC)

O. LABORATORY SAFETY

- Bibliography of Toxic Chemicals*. National Safety Council, Toxic Chemicals Committee. National Safety Congress Transactions, 1957: 44-51. (NSC)
- Breath Analysis Used to Monitor Toxic Volatiles*. Chemical and Engineering News, v. 42, Nov. 2, 1964: 104. (ACS)
- BREWER, L. W. *Industrial Hygiene Handbook*. Albuquerque, N.Mex. Sandia Corporation, Feb. 1965. 153 p. (CFS)
- BROOKS, ROBERT A. *Designing Electrical Safety Into Buildings, Monograph No. 19*. Chicago, Ill. National Safety Council, Campus Safety Association, July 1964: 81-99. (NSC)
- Campus Safety Association. Laboratory Design Consideration for Safety, Handbook of Laboratory Safety, Chapter 11.1*. Cleveland, Ohio. The Chemical Rubber Co., 1967. 11 p. (CRC)
- Case Histories of Accidents in the Chemical Industry*. Washington, D.C. Manufacturing Chemists' Association, Inc., July 1962. 190 p. (MCA)
- Chemical and Biological Safety Guide*. Bethesda, Md. N.I.H., Safety Office, Plant Safety Branch, 1965. 72 p. (SAF)
- DENHAM, WILLARD A. S. *Safety Equipment in Laboratories*. Research/Development, v. 15, Sept. 1964: 24-28. (FDT)
- FAWCETT, H. H. *Laboratory Safety*. Chemical and Engineering News, v. 29, Apr. 2, 1951: 1302-1305. (ACS)
- *Safety and Industrial Hygiene in the Laboratory*. Chemical and Engineering News, v. 30, June 23, 1952: 2588-2591. (ACS)
- *Who Knows What-About Chemical Safety, Part I*. Industrial and Engineering Chemistry, v. 52, June 1960: 85A-88A. (ACS)
- *Who Knows What-About Chemical Safety, Part II*. Industrial and Engineering Chemistry, v. 53, Aug. 1960: 75A-76A. (ACS)
- Flammable Liquids, Handbook of Laboratory Safety, Chapter 4.3*. Cleveland, Ohio. The Chemical Rubber Co., 1967. 8 p. (CRC)
- FOULGER, JOHN H. *A Practical Approach To Protection of Laboratory Personnel From Toxic Materials, Monograph No. 19*. Chicago, Ill. National Safety Council, Campus Safety Association, July 1964: 57-61. (NSC)
- HANSON, R. P. AND OTHERS. *Arbovirus Infections of Laboratory Workers*. Science, v. 158, Dec. 1967: 1283-1286. (AAA)
- HASELTINE, NATE. *Risk of Cancer Deaths Seen High in Chemists*. Washington Post. Washington, D.C. Fri., Feb. 2, 1969. (WPN)
- JEMSKI, JOSEPH V. AND G. BRIGGS PHILLIPS. *Microbiological Safety Equipment*. Laboratory Animal Care, v. 13, Feb. 1963. 12 p. (WWC)
- KUSNETZ, HOWARD L. *Controlling Hazards from Uses of the Plasma Torch, Monograph No. 19*. Chicago, Ill. National Safety Council, Campus Safety Association, July 1964: 78-80. (NSC)
- Lab Design Protects Staff From Infectious Materials*. Laboratory Management, v. 5, Apr. 1967: 28-31. (UBP)
- LANGE, A. Q. *Proper Electrical Grounding Safeguards Laboratory*. Laboratory Management, v. 5, Aug. 1967: 28-29. (UBP)

- Life Expectancy of Chemists: Letters.* Chemical and Engineering News, v. 14, Nov. 30, 1964: 4-5. (ACS)
- Life Span of Chemists: Letter.* Chemical and Engineering News, v. 14, Nov. 2, 1964: 7. (ACS)
- McGILL, RUSSELL. *Explosives, Propellants and Pyrotechnic Safety Covering Laboratory, Pilot Plant, and Production Operations, AD 272424.* Silver Spring, Md. U.S. Naval Ordnance Laboratory, Chemistry Research Department, Feb. 1962. 92 p. (CFS)
- PHILLIPS, G. BRIGGS. *Control of Microbiological Hazards in the Laboratory, Technical Manuscript 148, Proc t IC622401A72.* Fort Detrick, Md. U.S. Army Biological Laboratories, Aug. 1964. 35 p. (DDC)
- *Microbiological Safety in U.S. and Foreign Laboratories, Technical Study 35, Project 4B11-05-015.* Fort Detrick, Md. U.S. Army Biological Laboratories, Sept. 1961. 291 p. (CFS)
- *Safety Education for Students of Microbiology.* The American Journal of Medical Technology, Sept.-Oct. 1962: 291-295. (ASM)
- Properties and Essential Information for Safe Handling and Use of Perchloric Acid Solution, rev.* Washington, D.C. Manufacturing Chemists' Association, Inc., Chemical Safety Data Sheet SD-11, 1965. 13 p. (MCA)
- QUAM, G. N. *Safety Practice for Chemical Laboratories.* Villanova, Penna. Villanova Press, 1963. 78 p. (VUP)
- Safety and Fire-Prevention Guide.* Bethesda, Md. N.I.H., Safety Office, Plant Safety Branch, 1960. 19 p. (SAF)
- Safety Principles for Laboratory and Pilot-Plant Operations with Explosives, Pyrotechnics and Propellants, NAVSEPS OP 3237.* Silver Spring, Md. U.S. Naval Ordnance Laboratory, July 1964. 112 p. (CFS)
- Safety Regulations: Biological, Chemical and Radiological.* Fort Detrick, Md. U.S. Army Biological Laboratories, Jan. 1963. 58 p. (DDC)
- SCHWALB, HARRY M. *A Check List for Laboratory Safety.* Safety Maintenance and Production, v. 103, Feb. 1952: 28-31. (ASE)
- STEERE, NORMAN V., ed. *Handbook of Laboratory Safety.* Cleveland, Ohio. The Chemical Rubber Co., 1967. 568 p. (CRC)
- WEBSTER, ALEC. *Safety in the Laboratory, Part II.* Laboratory Practice, v. 2, Nov. 1953: 601-604. (UTP)
- *Safety in the Laboratory, Part III.* Laboratory Practice, v. 2, Dec. 1953: 655-657. (UTP)
- WEDDUM, ARNOLD G. *Laboratory Safety In Research with Infectious Aerosols.* Washington, D.C. Public Health Reports, v. 79, July 1964: 619-633. (GPO)

V. SPECIAL FACILITIES AND EQUIPMENT

A. ANIMAL CARE AND HOUSING

- A Selected Bibliography on the Care and Management of Laboratory Animals, Laboratory Design Notes.* Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, (undated). 9 p. (DER)
- Air Conditioning Laboratory Animal Quarters.* Air Conditioning, Heating and Ventilating, v. 33, July 1961: 71-76. (IPI)
- Animal Quarters Provide Surgical, Laboratory Services.* Laboratory Management, v. 7, Apr. 1969: 20-21. (UBP)
- Animal Room Ventilation.* Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, Facilities Planning Office, Sept. 1961. 6 p. (mimeograph)
- Architects of Laboratory Animal Facilities, 1961 Through 1966, 2d ed.* Washington, D.C. Institute of Laboratory Animal Resources, National Research Council, Feb. 1967. 103 p. (NAS)
- Basic Care of Experimental Animals.* New York, N.Y. The Animal Welfare Institute, 1965. 68 p. (AWI)
- Bedding for Laboratory Rodents, Laboratory Design Notes.* Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, (undated). 4 p. (DER)
- BELKIN, BEN. *Housing the Laboratory Animal.* Laboratory Management, v. 3, Jan. 1965: 22-24 and 57. (UBP)
- Caging of Research Animals, Laboratory Design Notes.* Bethesda, Md. N.I.H., Division of Research Facilities and Resources, Office of Architecture and Engineering, 1965. 4 p. (DER)
- Comfortable Quarters for Laboratory Animals, rev.* New York, N.Y. The Animal Welfare Institute, 1966. 103 p. (AWI)
- Controlled Environment for Animal Rooms.* Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, Facilities Planning Office, Nov. 1965. 4 p. (mimeograph)
- D'JERF, ROY M. *Safety Highlights Design of Animal Disease Laboratory.* Heating, Piping & Air Conditioning, v. 36, July 1964: 110-113. (RPC)
- Environmental Control for Animals and Plants, ASHRAE Guide and Data Book, Applications for 1968, Chapter 16.* New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1968. (ASH)
- Expandability Keynotes Hershey Planning.* Laboratory Management, v. 7, Apr. 1969: 22-23. (UBP)
- Guide for Laboratory Animal Facilities and Care, Publication No. 1024, rev.* Washington. U.S. Dept. of Health, Education, and Welfare, Public Health Service, Institute of Laboratory Animal Resources, U.S. Govt. Print. Off., 1968. 57 p. (GPO)

- Guidelines for Designing Research Animal Room Air Conditioning Systems.* Heating, Piping & Air Conditioning, v. 36, Jan. 1964: 171-186. (RPC)
- JEMSKI, JOSEPH V. *Maintenance of Monkeys Experimentally Infected With Organisms Pathogenic for Man.* Proceedings of the Animal Care Panel, v. 12, June 1962. 10 p. (AAL)
- JONAS, ALBERT M. *Laboratory Animal Facilities, Laboratory Design Notes.* Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, (undated). 7 p. (reprint) (DER)
- Laboratory Animal Welfare.* Washington. U.S. Dept. of Agriculture, Agricultural Research Service, Federal Register, v. 32, Feb. 24, 1967: 3270-3282. (GPO)
- LANG, C. MAX. *Model Animal Facility Enhances Research Education.* Laboratory Management, v. 7, Apr. 1969: 18-19, 39-40. (UBP)
- PHILLIPS, G. BRIGGS AND JOSEPH JEMSKI. *Biological Safety in the Animal Laboratory.* Laboratory Animal Care, v. 13, Feb. 1963. 7 p. (WWC)
- Research Animals—The Law and the Laboratory.* Laboratory Management, v. 5, Oct. 1967: 18-25. (UBP)
- RUNKLE, ROBERT S. *Designing Animal Housing Facilities.* Laboratory Management, v. 2, Jan.-Feb. 1964: 18-42. (UBP)
- *Laboratory Animal Housing: Part I.* AIA Journal, v. 41, Mar. 1964: 55-58. (AIA)
- *Laboratory Animal Housing: Part II.* AIA Journal, v. 41, Apr. 1964: 77-80. (AIA)
- SIMMONS, M. L., L. P. WYNNS AND E. E. CHOAT. *A Facility Design for Production of Pathogen-Free, Inbred Mice.* ASHRAE Journal, v. 9, July 1967: 27-31. (ASH)
- TINSKY, JOSEPH R. *Monolithic Flooring for Specific Pathogen Free Animal Rooms.* Bethesda, Md. N.I.H., Division of Research Services, Engineering Design Branch, Jan. 1965. 16 p. (EDB)

B. CLEAN ROOMS

- Environmental Test Equipment, ASHRAE Guide and Data Book, Applications for 1968, Chapter 45.* New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1968. (ASH)
- FOX, GERTRUDE. *Design of Clean Rooms, A Classified List of Selected References, 1955-1964.* Bethesda, Md. N.I.H., Division of Research Services, Engineering Design Branch, 1964. 15 p. (EDB)
- KIND, WILLIAM O. *Design and Construction of a Clean Room for Microelectronics Facility.* Heating, Piping and Air Conditioning, v. 38, June 1966: 103-108. (RPC)
- KROKYN, WILLIAM. *An Architect's Advice On How To Plan And Build A Clean Room, Part I.* Air Engineering, v. 7, May 1965: 20-27. (BNP)
- *An Architect's Advice On How To Plan And Build A Clean Room, Part II.* Air Engineering, v. 7, June 1965: 20-25. (BNP)
- SPENCER, ERIC W., ed. *Clean Rooms.* Laboratory Safety (Newsletter), v. 4, Issue No. 2, 1969. 2 p. (CAM)

STOCKHAM, J. D., D. ROBERTS AND R. ZASTERA. *Missions to Mars Spur Survey of Bioclean Rooms*. Heating, Piping & Air Conditioning, v. 38, Oct. 1966: 104-109. (RPC)

TREBOR, F. N. *Characteristics of Clean Rooms*. Laboratory Management, v. 5, July 1967. 28-30 and 40-43. (UBP)

WEBER, JOHN A. "Split-Function" Cooling Cycle for Vertical Laminar Flow Clean Rooms. Heating, Piping & Air Conditioning, v. 39, Nov. 1967: 113-115. (RPC)

World's Largest Clean Room. Laboratory Management, v. 1, Nov. 1963: 22-23, 48 and 50. (UBP)

C. COLD ROOMS

A Study of Cold Rooms for Health Research Facilities. Bethesda, Md. N.I.H., Division of Research Services, Engineering Design Branch, Sept. 1964. 7 p. (EDB)

Cold-Storage Facilities: A Comprehensive Program of Research, Publication No. 1099. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1963. 19 p. (NAS)

Cold-Storage Facilities: A Guide to Design and Construction, Publication No. 1098. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1963. 54 p. (NAS)

Cryogenics, ASHRAE Guide and Data Book, Applications for 1968, Chapter 49. New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1968. (ASH)

D. ELECTRON MICROSCOPE FACILITIES

SELL, J. CLYDE. *Planning the Electron Microscopy Lab*. Laboratory Management, v. 2, Jan. 1964: 27-29 and 43. (UBP)

——— *Planning the Electron Microscopy Suite*. AIA Journal, v. 39, May 1963: 83-87. (AIA)

WISCHNITZER, SAUL. *Planning the Electron Microscope Laboratory*. Laboratory Management, v. 3, May 1965: 18-30. (UBP)

E. FUME HOOD SYSTEMS

1. Fume Hood Design and Selection

BALLARD, BENJAMIN F., JR. AND REGINALD O. COOK. N.I.H., *Fume Hood Design*. Bethesda, Md. N.I.H., Division of Research Services, Environmental Services Branch, Oct. 1965. 30 p. (ESB)

BARRETT, JAMES C. *Ventilating Research Labs*. Air Engineering, v. 4, Jan. 1962: 31-36. (BNP)

BARRETT, JAMES C. AND OTHERS. *Comments on the Design of Exhaust Systems and Discharge Stacks*, by John H. Clarke. Heating, Piping & Air Conditioning, v. 35, Aug. 1963: 78, 80, 86, and 88. (RPO)

BOND, HARRY K. *Engineer's Guide to Dust Hoods and Dry Boxes*. Electronic Design, v. 9, Mar. 1961: 72-73. (HAY)

- BRIEF, RICHARD S., FRANKLIN W. CHURCH, AND N. V. HENDRICKS. *Design and Selection of Laboratory Hoods*. Air Engineering, reprinted from Sept., Oct. and Nov. 1963 issues. 6 p. (BNP)
- BURKE, J. C., JR. *Better Laboratory Hood Design*. ASHRAE Journal, v. 33, Sept. 1961: 47-50. (ASH)
- CLARKE, JOHN H. *Planning for Safety-Ventilation in Plant Design*. National Safety Congress Transaction, Oct. 1962, reprinted by Visking Co., Division of Union Carbide Corp. 29 p. (NSC)
- COLEMAN, H. S., ed. *Laboratory Design*. New York, N.Y. Reinhold Publishing Corp., Hoods and Other Fume Disposal Units, 1951: 31-34. (RPC)
- Design of Corrosion Resistant Vent System for UCLA Laboratory*. Air Engineering, v. 8, May 1966: 18-19. (BNP)
- ECONOMIDES, LEANDER. *Fume Hoods*. Laboratory Management, v. 1, Sept.-Oct. 1963: 44-45. (UBP)
- FOULGER, JOHN H. *Use Only With Adequate Ventilation*. Air Engineering, v. 4, June 1962: 23-30. (BNP)
- Fume Hood Exhaust Systems, Laboratory Design Notes*. Bethesda, Md. N.I.H., Division of Educational and Research Facilities Office of Architecture and Engineering, (undated). 4 p. (DER)
- HEIDER, SCOTT A. *Fume Hood Research*. ASHRAE Journal, v. 9, Feb. 1967: 71 and 90. (ARC)
- HEMEON, W. C. L. *Laboratory Ventilation*. Laboratory Design, Chapter 6. New York, N.Y. Reinhold Publishing Corp., 1951: 61-68. (RPC)
- HOROWITZ, HAROLD. *Planning for Fume Hoods in the Design of Science Buildings*. Journal of Chemical Education, v. 44, May 1967: A439-A442. (ARC)
- HOROWITZ, HAROLD, S. A. HEIDER AND CALDWELL N. DUGAN. *Fume Hoods for Science Laboratories*. AIA Journal, v. 44, July 1965: 63-70. (ARC)
- *Hoods for Science Laboratories, Handbook of Laboratory Safety, Chapter 3.3*. Cleveland, Ohio. The Chemical Rubber Co., 1967. 12 p. (ARC)
- KETCHAM, N. H. *Testing Laboratory Hoods—Evaluation of Design Changes and Periodic Performance Testing*. American Industrial Hygiene Association Journal, v. 19, Aug. 1958: 324-329. (reprint) (HYG)
- Laboratories & Engine Test Facilities, ASHRAE Guide and Data Book, Applications for 1968, Chapter 10*. New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1968. (ASH)
- LIND, ARNE. *Ventilated Cabinets in a Tuberculosis Laboratory*. Bulletin of the World Health Organization, v. 16, 1957: 448-453. (WHO)
- LITCH, JEREMIAH R. *Study Shows How To Select Lab Hoods To Cut Cooling Cost*. Heating, Piping & Air Conditioning, v. 39, Jan. 1967: 133-138. (RPC)
- MORSE, K. M. *Factors in Exhaust Ventilation System Design for the Safety Engineer*, National Safety Congress Transaction, 1957. Current Safety Topics, v. 14, Industrial Safety, 1957: 42-49. (NSC)
- NEILSON, L. N. *Handling Problem Laboratory Atmospheres*. Research/Development, v. 16, Dec. 1965: 24-29. (FDT)
- Open for Discussion: Need More Information for Lab Hood Design*. Heating, Piping & Air Conditioning, v. 39, May 1967: 91-92 and 94. (RPC)

- PAPA, LOUIS J. *A Quantitative Approach to Proper Evaluation of Laboratory Fume Hoods*. Air Engineering, v. 8, Apr. 1966: 20-22, 25 and 30. (BNP)
- PETERSON, J. E. *An Approach to a Rational Method of Recommending Face Velocities for Laboratory Hoods*. American Industrial Hygiene Association Journal, v. 20, Aug. 1959: 259-265. (reprint) (HYG)
- PETERSON, J. E. AND J. A. PEAY. *Laboratory Fume Hood and Their Exhaust Systems*. Air Conditioning, Heating and Ventilating, v. 60, May 1963: 63-72. (IPI)
- RUDDY, JOHN M. *What to Consider When: Designing Fume Hoods For Medium Level Radioactive Conditions*. Heating, Piping & Air Conditioning, v. 30, Mar. 1958: 128-131. (RPC)
- SCHULTE, H. F. AND OTHERS. *Evaluation of Laboratory Fume Hoods*. American Industrial Hygiene Association Journal, v. 15, Sept. 1954. 8 p. (reprint) (HYG)
- SIEPKEN, GERALD E. *Supply-Air Fume Hood Evaluation, Summary Report*. Bethesda, Md. N.I.H., Division of Research Services, Engineering Design Branch, June 1963. 21 p. (EDB)
- STOCKDALE, W. G. *A Discussion of Fume Hood Performance, Laboratory Design for Handling Radioactive Materials, Conference Report No. 3*. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, 1962: 46-52. (NAS)
- Summary of Fume Hood Design Seminar*. Bethesda, Md. N.I.H., Division of Research Services, Engineering Design Branch, Feb. 17, 1964. 6 p. (EDB)
- SYSKA & HENNESSY, INC. Engineers. *Laboratories and Technical Facilities, Part 2: Handling and Disposal of Fumes*. New York, N.Y. Technical Letter, v. 16, Aug. 1966. 4 p. (SHI)
- TURNER, JOHN F. *New Laboratory Fume Hoods Cut Air Conditioning Load*. Heating, Piping & Air Conditioning, v. 23, Jan. 1951: 113-116. (RPC)
- WALLS, E. L. AND W. P. METZNER. *Fume Hoods—Safety vs. Costs*. Industrial and Engineering Chemistry, v. 54, Apr. 1962: 42-45 (ACS)
- WHITE, MARSHALL. *Fume Hood Exhaust Duct Work Materials*. Bethesda, Md. N.I.H., Division of Research Services, Engineering Design Branch, 1965. 10 p. (EDB)

2. Fume Exhaust and Contamination of Air Intakes

- BARRY, P. J. *Estimation of Downwind Concentration of Airborne Effluents Discharged in the Neighborhood of Buildings, AECL-2043*. Chalk River, Ontario, Can. Atomic Energy of Canada Limited, July 1964. 15 p. (AEC)
- BREYSSE, PETER A. AND GEORGE LEHMAN. *How to Dismantle Perchlorate Contaminated Lab Exhaust Systems*. Heating, Piping & Air Conditioning, v. 38, Aug. 1966: 126-127. (RPC)
- CHANGNON, STANLEY A., JR. *Selected Rain-Wind Relations Applicable to Stack Design*. Heating, Piping & Air Conditioning, v. 38, Mar. 1966: 93-98. (RPC)
- CHANGNON, STANLEY A., JR. AND RUDARD A. JONES. *Effect of Wind-Borne Rain on Weatherproofing*. Building Research, v. 1, Nov.-Dec. 1964: 8-11. (NAS)
- CLARKE, JOHN H. *Air Flow Around Buildings*. Heating, Piping and Air Conditioning, v. 39, May 1967: 145-154. (RPC)

- CLARKE, JOHN H. *Design and Location of Building Inlets and Outlets to Minimize Wind Effect and Building Re-Entry of Exhaust Fumes*. American Industrial Hygiene Association Journal, v. 26, May-June 1965: 242-248. (HYG)
- *Effective Stack Design In Air Pollution Control*. Heating, Piping & Air Conditioning, v. 40, Mar. 1968: 125-133. (RPC)
- *What To Do About Fume Re-Entry, Laboratory Design Notes*. Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, (undated). 4 p. (DER)
- GERLITZ, R. A. *Static Air Pressure Isn't Always Static, Laboratory Design Notes*. Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, (undated). 2 p. (DER)
- HALITSKY, JAMES. *Air Flow and Pressures Near Exterior Building Surfaces*. ASHRAE Journal, v. 7, July 1965: 37. (ASH)
- *A Method for Estimating Concentrations in Transverse Jet Plumes*. Air & Water Pollution Int. Journal, v. 10, 1966: 821-843. (FFI)
- *Diffusion of Vented Gas Around Buildings*. APCA Journal, v. 12, Feb. 1962: 74-80. (APC)
- *Estimation of Stack Height Required to Limit Contamination of Building Air Intakes*. American Industrial Hygiene Association Journal, v. 26, Mar.-Apr. 1965: 106-116. (HYG)
- *Gas Diffusion Near Buildings: Theoretical Concepts and Wind Tunnel Model Experiments with Prismatic Building Shapes*. New York, N.Y. Research Division, College of Engineering, New York University, Feb. 1963. 122 p. (NYU)
- *Gas Diffusion Near Buildings*. American Society of Heating, Refrigerating and Air Conditioning Engineers, 1963. 18 p. (reprint) (ASH)
- *Some Aspects of Atmospheric Diffusion in Urban Areas*. Symposium: Air Over Cities, Sanitary Engineering Center Technical Report A62-5. U.S. Public Health Service, 1962: 217-228. (PHS)
- HALITSKY, JAMES AND OTHERS. *Wind Tunnel Tests of Gas Diffusion from a Leak in the Shell of a Nuclear Power Reactor and from a Nearby Stack*. New York, N.Y. Research Division, College of Engineering, New York University, Apr. 1963. 29 p. (NYU)
- HAMA, GEORGE M. AND DARWIN A. DOWRING. *The Characteristics of Weather Caps*. Air Engineering, v. 5, Dec. 1963: 34-37. (BNP)
- HAMMER, WILLIS. *What An Engineer Should Know About Micrometeorology*. Heating, Piping & Air Conditioning, v. 37, May 1965: 101-105. (RPC)
- HEWSON, E. W. *Stack Heights Required to Minimize Ground Concentrations*. ASME Transactions, Oct. 1955: 1163-1172. (MEC)
- HOULIHAN, THOMAS F. *Effect of Relative Wind on Supply Air Systems*. ASHRAE Journal, v. 7, July 1965: 28-31. (ASH)
- JANISSE, NORMAN J. *Control of Building Pressurization*. ASHRAE Journal, v. 7, July 1965: 32-36. (ASH)
- Laboratories & Engine Test Facilities, ASHRAE Guide and Data Book, Applications for 1968, Chapter 10*. New York, N.Y. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 1968. (ASH)

- LORD, C. ROSS, W. D. BAINES AND HANS J. LEUTHEUSSER. *The Minimum Height of Roof-Mounted Chimneys*, Technical Publication Series TP 6409. Toronto, Can. University of Toronto, Oct. 1964. 15 p. (UOT)
- McELROY, G. E. AND OTHERS. *Dilution of Stack Effluents*, Technical Paper 657. Washington, D.C. U.S. Dept. of the Interior, Bureau of Mines, 1944. 16 p. (DOI)
- MARTIN, JAMES E. *The Correlation of Wind Tunnel and Field Measurements of Gas Diffusion Using Krypton-85 As a Tracer (Thesis)*, Michigan Memorial Phoenix Project. Ann Arbor, Mich. University of Michigan, June 1965. 130 p.
- MUMM, R. E. AND A. F. W. COLE. *Turbulence and Diffusion in the Wake of a Building*. Atmospheric Environment, v. 1, 1967: 33-43. (PPI)
- New Light Thrown on the Vent-to-Intake Short Circuit*. Air Conditioning, Heating and Ventilating, v. 58, July 1961: 81. (IPI)
- Radiation Routs 100 at Hopkins*. The Evening Star. Washington, D.C. Tues., Feb. 21, 1967. (ESN)
- SHERLOCK, R. H. AND E. A. STALKER. *A Study of Flow Phenomena in the Wake of Smokestacks*, Engineering Research Bulletin No. 29. Ann Arbor, Mich. Dept. of Engineering Research, University of Michigan, Mar. 1941. 48 p. (ERB)
- STEERE, NORMAN V. *Ventilation of Laboratory Operations, Part I*. Journal of Chemical Education, v. 41, Feb. 1964: A95-A110. (ACS)
- *Ventilation of Laboratory Operations, Part II*. Journal of Chemical Education, v. 41, Mar. 1964: A183-A188. (ACS)
- Study Proposed Rule to Control Emission of Organic Solvents in the Los Angeles Area*. Heating, Piping & Air Conditioning, v. 37, Dec. 1965: 50. (RPC)
- THOMAS, F. W., S. B. CARPENTER AND F. E. GARTRELL. *Stacks—How High?* Journal of the Air Pollution Control Association, v. 13, May 1965: 198-204. (APC)
- Wind, Sun, Rain and the Exterior Wall*. Architectural Record, v. 142, Sept. 1967: 205-209. (MHI)

F. HAZARDOUS REACTION CELLS

1. Evaluation of Explosions

- BOLT, ROBERT AND ROBERT M. JOYCE. *Laboratory Explosions with Ethylene and Carbon Tetrachloride*. Chemical and Engineering News, v. 25, 1947: 1866. (ACS)
- BRODKEY, R. S., R. G. NEWBERT AND JOSEPH STEWART. *Safety Problems in Study of Hazardous Reactions*. Industrial and Engineering Chemistry, v. 48, Feb. 1956: 223-226. (ACS)
- COHEN, EDWARD AND NORVAL DOBBS. *Explosion*. Architectural and Engineering News, v. 9, May 1967: 106-111. (HPC)
- GORDON, W. E. *The Effectiveness of Explosives in Enclosed Spaces*, NDRC Report A-337. AIT 18448, abstract. National Defense Research Communications, Office of Explosives in Enclosed Spaces Report 6255. Mar. 1946. 1 p. (DDC)
- GREENLEE, KENNETH W. *Butadiene-Crotonaldehyde Explosion*. Chemical and Engineering News, v. 26, July 12, 1948: 1985. (ACS)
- KINTER, M. R. *Safety in High Pressure Chemical Reactions*. National Safety Congress Transactions, Chemical Industries, 1957: 5-9. (NSC)

Safety-Extreme Pressure Data Needed. Chemical and Engineering News, v. 24, Feb. 1956: 748 and 750. (ACS)

Study of Missiles Resulting from Accidental Explosions, Safety and Fire Protection Bulletin 10. Washington. U.S. Atomic Energy Commission, Division of Operational Safety, U.S. Govt. Print. Off., Mar. 1966. 61 p. (GPO)

VAN DOLAH, R. W. *Evaluating the Explosive Character of Chemicals.* Industrial and Engineering Chemistry, v. 53, July 1961: 59A-62A. (ACS)

2. Barricades

BROWNE, HOWARD C., HAROLD HILEMAN AND LOWELL C. WEGER. *Barricades for High Pressure Research.* Industrial and Engineering Chemistry, v. 48, May 1956: 52A-54A, 56A, and 58A. (ACS)

LOVING, F. A. *Barricading Hazardous Reactions.* Industrial and Engineering Chemistry, v. 49, Oct. 1957: 1744-1746. (ACS)

MOLL, GODFREY J. *Laboratory Barricading of High Pressure & Extra Hazardous Reactions.* National Safety Congress Transactions, Chemical Industries, 1957: 33-37. (NSC)

PORTER, R. L. *Movable Barricade-Explosive and Burning Tests, Technical Bulletin No. T160.* Erie, Pa. Autoclave Engineers, Inc., (undated). 4 p. (AEI)

PORTER, R. L., P. A. LOBO AND C. M. SLIPEVICH. *Design and Construction of Barricades.* Industrial and Engineering Chemistry, v. 57, May 1956: 841-845. (ACS)

Siting, Spacing, Shielding, Barricading of Facilities and Equipment for Hazardous Operations. Chicago, Ill. National Safety Council, Chemical Section, Safety Newsletter, Nov. 1966. 4 p. (NSC)

SMITH, DAVID T. *Shields and Barricades for Chemical Laboratory Operations.* Journal of Chemical Education, v. 41, July 1964: A520-A527. (ACS)

3. High Pressure Cells and Vents

BOWEN, JOHN C. AND ROLLAND L. JENKINS. *Safety at High Pressures: Features of an Eight-Cubical Laboratory.* Industrial and Engineering Chemistry, v. 49, Dec. 1957: 2019-2021. (ACS)

BROWNE, HOWARD C. AND OTHERS. *Design and Testing of a New High Pressure Cell.* St. Louis, Mo. Monsanto Chemical Company, Oct. 1961. 28 p. (MCC)

COMINGS, EDWARD W. *Safety, Chapter 4, High Pressure Technology.* McGraw-Hill Book Co., Inc., 1956: 63-74. (MHI)

CRAIG, L. E. AND J. E. DEW. *A Small High Pressure-Preparations Laboratory.* Industrial and Engineering Chemistry, v. 51, Oct. 1959: 1249-1252. (ACS)

CREECH, MERL D. *Combustion Explosions in Pressure Vessels Protected with Rupture Disks.* ASME Transactions, v. 63, Oct. 1941: 583-538. (MEC)

FOSTER, C. V. AND OTHERS. *Petrochemical Research Pilot Plant.* Industrial and Engineering Chemistry, v. 48, May 1956: 849-853. (ACS)

GLASEBROOK, A. L. *Safety in Study of Chemical Reactions at High Pressure, Technical Bulletin No. 100.* Erie, Pa. Autoclave Engineers, Inc., (undated). 3 p. (AEI)

GLASEBROOK, A. L. AND J. B. MONTGOMERY. *High Pressure Laboratory Designed for Safe Operation.* Industrial and Engineering Chemistry, v. 41, Oct. 1949: 2368-2373. (ACS)

- HANSON, EDWARD S. *Pressure Equipment Hazard*. Chemical and Engineering News, v. 26, Aug. 1948: 2551. (ACS)
- HITESHUE, RAYMOND W. *Bench and Pilot Plant Practice*. Industrial and Engineering Chemistry, v. 48, May 1956: 835-837. (ACS)
- KEIFER, R. W. *Safety at High Pressure*. Industrial and Engineering Chemistry, v. 49, Dec. 1957: 2017-2018. (ACS)
- MAHLEY, HORACE S. *Operating High Pressure Equipment*. Chemical and Engineering News, v. 27, Dec. 1949: 3860-3861. (ACS)
- MILLER, JOHN F. *Unit-Type Batch Reaction Cubicles*. Industrial and Engineering Chemistry, v. 48, May 1956: 846-848. (ACS)
- MONK, C. B., JR. *Resistance of Structural Clay Masonry to Dynamic Forces: A Design Manual for Blast Resistance, Research Report No. 7*. McLean, Va. Structural Clay Products Research Foundation, Nov. 1958. 64 p. (SCP)
- NEWMARK, NATHAN M. *An Engineering Approach To Blast Resistant Design, Reprint Series No. 56, v. 53, June 1956*. Urbana, Ill. University of Illinois. (Reprinted from Transactions of the American Society of Civil Engineers, v. 121, 1956), June 1956: 45-64. (ACS)
- REBENSTORF, MELVIN A. *Designing a High Pressure Laboratory*. Industrial and Engineering Chemistry, v. 53, Jan. 1961: 40A-42A. (ACS)
- SAVAGE, R. L. *High-Pressure Laboratories. Laboratory Design, Chapter 9*. New York, N.Y. Reinhold Publishing Corp., 1951: 241-244. (RPC)
- SLIEPCEVICH, C. M. AND R. L. PORTER. *A Portable High Pressure Laboratory*. Industrial and Engineering Chemistry, v. 54, July 1962: 44-47. (ACS)
- STEELE, A. B. AND J. J. DUGGAN. *Safe Handling of "Reactive" Chemicals*. Chemical Engineering, v. 66, Apr. 20, 1959: 157-168. (MHI)
- STENBERG, JOHN F. AND EDWARD G. COFFEY. *Designing a High-Pressure Laboratory*. Chemical Engineering, v. 69, Nov. 26, 1962: 115-118. (MHI)
- STEPHENS, H. R. AND K. E. WALKER. *Safety in Small-Scale High Pressure Experiments*. Industrial and Engineering Chemistry, v. 49, Dec. 1957: 2022-2025. (ACS)
- WEBER, J. P. AND OTHERS. *Detonation Tests Evaluate High Pressure Cells*. Industrial and Engineering Chemistry, v. 53, Nov. 1961: 128A-133A. (ACS)

G. RADIOACTIVE AND HIGH ENERGY LABORATORIES

- AGNON, S. *Mechanical Systems Designed for Safety In Israeli Research Reactor Building*. Heating, Piping and Air Conditioning, v. 39, Oct. 1967: 137-145. (RPC)
- ALLEN, ROBERT C. *Bi-Directional Containment Marks Facility Design*. Laboratory Management, v. 7, May 1969: 38-40, 42-44. (UBP)
- Control and Removal of Radioactive Contamination in Laboratories, Handbook 48*. Washington. U.S. Dept. of Commerce, National Bureau of Standards. U.S. Govt. Print. Off., Feb. 1951. 24 p. (GPO)
- CRILLY, J. B. AND S. H. BASSETT. *Evaluation of Paint Systems for Use in Radioisotope Laboratories, Technical Report R 363*. Port Hueneme, Calif. U.S. Naval Civil Engineering Laboratory, Feb. 1965. 15 p. (DDC)

- HARRIS, W. B. *Laboratories for Handling Radioactive Materials*. Heating and Ventilating, v. 50, Nov. 1953: 74-78. (IPI)
- HELD, BRUCE J. *Planning Ventilation for Nuclear Reactor Facilities*. Industrial Hygiene Journal, v. 23, Jan.-Feb. 1962: 83-87. (HYG)
- KLEIN, J. L. AND J. J. PICKETT, *Investigation of Beryllium Windows from CEA Bubble Chamber, NYO-10742*. Concord, Mass. Nuclear Metals Div. of Textron Inc., Dec. 1965. 157 p. (CFS)
- KNAPP, C. L. *High Energy Fuels: Safe Handling*. Industrial and Engineering Chemistry, v. 55, Feb. 1963: 25-29. (ACS)
- Laboratory Design for Handling Radioactive Materials, Conference Report No. 3*. Washington, D.C. BRAB, National Academy of Sciences-National Research Council, May 1952. 140 p. (NAS)
- MUNOE, JAMES F. *The Architect in the Nuclear Age: Design of Buildings to House Radioactivity*. London, Eng. Iliffe Books limited, Dorset House, 1964. 241 p. (IBL)
- NORTHUP, THAROLD E. *Danger Radioactive*. Laboratory Management, v. 1, Sept.-Oct. 1963: 19-21. (UBP)
- Protection Against Radiations From Sealed Gamma Sources, Handbook 73*. Washington. U.S. Dept. of Commerce, National Bureau of Standards. U.S. Govt. Print. Off., July 1960. 70 p. (GPO)
- Radiation Protection in Educational Institutions, Report No. 32*. Washington, D.C. National Council on Radiation Protection and Measurements, July 1966. 56 p. (NCR)
- Radiation Routs 100 at Hopkins*. The Evening Star. Washington, D.C. Tue., Feb. 21, 1967. (ESN)
- Radiation Safety Guide, rev.* Washington. U.S. Dept. of Health, Education, and Welfare, N.I.H., Public Health Service, 1962, 53 p. (RAD)
- RAFFERTY, W. P. *Whiteshell Plan Illustrates Design of Nuclear Installations in Industrial Buildings*. Building Construction, v. 9, Sept. 1968: 73-78. (CPC)
- Report on Investigation of Explosion & Fire, Experimental Hall, Cambridge Electron Accelerator, TID 22594*, Cambridge, Mass. U.S. Atomic Energy Commission, 1966. 89 p. (CFS)
- Shielding for High-Energy Electron Accelerator Installations, Handbook 97*. Washington. U.S. Dept. of Commerce, National Bureau of Standards, U.S. Govt. Print. Off., July 1964. 66 p. (GPO)
- WANG, CHIN, R. A. ADAMS AND WYMAN BEAR. *Coordinated Design of Radioisotope Laboratories*. New England Nuclear Corp., July 1963. 10 p. (NEN)
- WILLIAMSON, JAMES C. *Mechanical System Design For Texas A & M Cyclotron*. Heating, Piping & Air Conditioning, v. 40, Nov. 1968: 95-99. (RPC)

H. ELECTROMAGNETIC SHIELDING

- HELENE, SIDNEY JULES. *Shielding the EEG Installation*. Architectural and Engineering News, v. 7, Nov. 1965: 95-96 and 115. (HPC)
- HENNY, GEORGE C. *How To Spot, Stop Electronic Interference*. The Modern Hospital, v. 103, Oct. 1964: 134-140. (MHP)

LASITTER, H. A. *Building Materials for Attenuating Electromagnetic Interference, Technical Report 359, AD612149.* Port Hueneme, Calif. U.S. Naval Civil Engineering Laboratory, Mar. 1965. 38 p. (CFS)

Shielding for Medical Instrumentation, Laboratory Design Notes. Bethesda, Md. N.I.H., Division of Educational and Research Facilities, Office of Architecture and Engineering, Sept. 1966. 7 p. (DER)

SUBER, JAMES T. AND RALPH ARONSON. *Preventing Radio Frequency Interference.* Architectural and Engineering News, v. 11, Mar. 1969: 70-72. (HPC)

APPENDIX

PUBLISHERS AND DISTRIBUTION SOURCES

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| AAA | American Association for the Advancement of Science
1515 Massachusetts Avenue
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| AAC | American Association for Contamination Control
6 Beacon Street
Boston, Mass. 02108. | AIB | American Institute of Biological Sciences
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Washington, D.C. 20016. |
| AAL | American Association for Laboratory Animal Science
Post Office Box 10
Joliet, Ill. 60434. | AIP | American Institute of Physics
335 East 45th Street
New York, N.Y. 10017. |
| AAM | Association of American Medical Colleges
2530 Ridge Avenue
Evanston, Ill. 60201. | AIS | American Iron and Steel Institute
150 East 42d Street
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| ACC | Advisory Council of College Chemistry
Department of Chemistry
Stanford University
Stanford, Calif. 94305. | ALA | American Library Association
50 East Huron Street
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| ACG | American Conference of Governmental Industrial Hygienists
1014 Broadway
Cincinnati, Ohio 45202. | AMA | American Medical Association
535 North Dearborn Street
Chicago, Ill. 60610. |
| ACS | American Chemical Society
1155 16th Street, N.W.
Washington, D.C. 20036. | APC | Air Pollution Control Association
4400 Fifth Avenue
Pittsburgh, Pa. 15213. |
| AEC | Atomic Energy of Canada, Limited
150 Kent Street
Ottawa 4, Ontario, Canada. | APH | American Public Health Association
1790 Broadway
New York, N.Y. 10019. |
| AEI | Autoclave Engineers Inc.
2930 West 22nd Street
Erie, Pa. 16506. | APP | Association of Physical Plant Administrators
Director of Physical Plant
Earlham College
Richmond, Ind. 47374. |
| AHA | American Hospital Association
840 North Lake Shore Drive
Chicago, Ill. 60611. | ARC | Architectural Services Staff
National Science Foundation
Washington, D.C. 20550. |

- ARS Agricultural Engineering Research Division
U.S. Department of Agriculture
Beltsville, Md. 20705.
- ASA U.S. of America Standards Institute
10 East 40th Street
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- ASC American Society of Civil Engineers
33 West 39th Street
New York, N.Y. 10018.
- ASE American Society of Safety Engineers
5 North Wabash Avenue
Chicago, Ill. 60602.
- ASH American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
345 East 47th Street
New York, N.Y. 10017.
- ASM American Society of Medical Technologists
Herman Professional Building
Houston, Texas 77025.
- AWI The Animal Welfare Institute
22 East 17th Street
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- BNP Business News Publishing Company
450 West Fort Street
Detroit, Mich. 48226.
- BPC Bittenheim Publishing Corporation
757 Third Avenue
New York, N.Y. 10017.
- BSR British Society for Research in Agricultural Engineering
Academic Press Berkeley Square House
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- CAC Carrier Air Conditioning Co.
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- CAM Campus Publishers
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- CAR Center for Architectural Research, School of Architecture
Rensselaer Polytechnic Institute
Troy, N. Y. 12180.
- CBM Conference Board of the Mathematical Sciences
1346 Connecticut Avenue N.W.
Washington, D.C. 20036.
- CEF Clearinghouse of Educational Facilities
Educational Resources Information Center
606 State Street, Room 314
Madison, Wis. 53703.
- CFS Clearinghouse for Federal Scientific and Technical Information
National Bureau of Standards, U.S. Department of Commerce
5285 Port Royal Road
Springfield, Va. 22151.
- CMA Canadian Medical Association
150 St. George Street
Toronto 5, Ontario, Canada.
- CON Construction Practices Council of New Mexico
Director of Physical Plant
University of New Mexico
Albuquerque, N. Mex. 87106.
- CPC Cahners Publishing Co., Inc.
5 South Wabash Avenue
Chicago, Ill. 60603.
- CRC Chemical Rubber Company
18901 Cranwood Parkway
Cleveland, Ohio 44128.
- CSI Commonwealth Scientific and Industrial Research Organization
Post Office Box 89, East Melbourne
Victoria 30002, Australia.
- CTP Charles Thomas, Publisher
301 East Lawrence Avenue
Springfield, Ill. 62703.

- DDC Defense Documentation Center
Cameron Station
Alexandria, Va. 22314.
- DER Division of Educational and Research Facilities
National Institutes of Health,
Bldg. 31
Bethesda, Md. 20014.
- DOI Department of the Interior
Washington, D.C. 20240.
- EDB Engineering Design Branch,
Division of Research Services
National Institutes of Health,
Bldg. 13
Bethesda, Md. 20014.
- EFL Educational Facilities Laboratories, Inc.
477 Madison Avenue
New York, N.Y. 10022.
- ERB University of Michigan
Department of Engineering Research
Ann Arbor, Mich. 48104.
- ESB Environmental Services Branch, Division of Research Services
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- ESN Evening Star Newspaper,
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- FWD F. W. Dodge Corporation
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- GSA General Services Administration
Washington, D.C. 20405.
- HAY Hayden Publishing Company
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- HPC Hagan Publishing Corporation
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- H Y G Hygiene Association
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- IBL Iliffe Books Limited, Dorset House
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- IRI Industrial Research, Inc.
Beverly Shores, Ind. 46301.
- IOB Institute of Biology
41 Queen's Gate
London, S.W. 7, England.
- LEP Laboratoires d'Electronique & de Physique Appliquee
3 avenue Descartes
Limeil-Brevannes France.
- LIA Lead Industries Association
292 Madison Avenue
New York, N.Y. 10017.
- MCA Manufacturing Chemists' Association, Inc.
1825 Connecticut Avenue,
NW.
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- MCC Monsanto Chemical Company
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- MEC American Society of Mechanical Engineers
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- MHI McGraw-Hill, Inc.
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- MHP McGraw-Hill Publishers
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- MOH Michigan Department of Health
Lansing, Mich. 48914.
- MPG Management Publishing Group
22 Putnam Avenue
Greenwich, Conn. 06030.
- MPI Medalist Publications, Inc.
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- NAC National Cash Register Company
4936 Fairmont Avenue
Bethesda, Md. 20014.
- NAS National Academy of Sciences-National Research Council
2101 Constitution Avenue, NW.
Washington, D.C. 20418.
- NAT National Aeronautics and Space Administration
Code Y
Office of University Affairs
Washington, D.C. 20546.
- NBS National Bureau of Standards
Washington, D.C. 20234.
- NCR National Council on Radiation Protection and Measurements
NCRP Publications
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- NDP Notre Dame Press
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- NEN New England Nuclear Corp.
575 Albany
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- NFP National Fire Protection Association International
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5454 Wisconsin Avenue
Chevy Chase, Md. 20015.
- NRC National Research Council of Canada
Division of Building Research
Ottawa, Ontario, Canada.
- NSC National Safety Council
425 North Michigan Avenue
Chicago, Ill. 60611.
- NST National Science Teachers Association
1201 16th Street, NW.
Washington, D.C. 20036.
- NYU New York University,
University Heights
College of Engineering
Research Division
New York, N.Y. 10452.
- OEC Organization for Economic Co-Operation and Development
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- OED Office of Education
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Washington, D.C. 20202.
- ORA Office of Research Administration
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- OUP Oxford University Press
Amen House
Warwick Square
London, E.C. 4, England.
- PCI Producer's Council, Inc.
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- PHS Inquires Branch HSMHA/
PHS
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Education, and Welfare
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- RES Research Section
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Structural Clay Products
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- TEX Texas A&M University,
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Center
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Toronto 5, Ontario, Canada. | WHO | World Health Organization
Division of Public Informa-
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| USA | U.S. Army, A. G., Publica-
tions Center
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Wooster, Ohio 44691. |
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