REPORT RESUMES

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REFERENCES ON NETWORK PLANNING IN EDUCATION, RESFARCH MANAGEMENT, PROJECT SELECTION, AND PROGRAM MANAGEMENT. (TITLE SUPPLIED).

BY- COOK, DESMOND L.

OHIO STATE UNIV., COLUMBUS, EDUC. RES. MANAGE.CTR.

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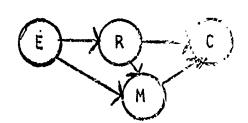
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THIS BIBLIOGRAPHIC LISTING OF 109 RELATED ADDRESSES, ARTICLES, BOOKS, MICROFILMS, MONOGRAPHS, REPORTS, AND OTHER ITEMS, PUBLISHED BETWEEN 1959 AND 1968, INCLUDES 39 ITEMS ON NETWORK PLANNING, 48 ITEMS ON RESEARCH MANAGEMENT, 13 ITEMS ON PROJECT SELECTION, AND NINE ITEMS ON PROGRAM MANAGEMENT. (JK)



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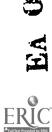
Educational Research Management Center
School of Education
The Ohio State University
Columbus, Ohio 43210

Desmond L. Cook, Director

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References on Network Planning in Education

- 1. Babigan, G. R., "The Use of the Critical Path Method in Building Schools," School Board Journal, August 1965, pp. 26-27.
- 2. Benson, Ellis M., <u>Time and Sequence Analysis of Critical Steps in the Establishment of California Junior Colleges</u>, Unpublished doctoral dissertation, University of California at Los Angeles, 1963 (University Microfilm No. 63-7869).
- 3. Cook, Desmond L , A New Approach to the Planning and Management of Educational Research. Occasional Paper 64-173, Bureau of Educational Research and Service, 7 a Ohio State University, October 1964
- 4. Cook, Desmond L, An introduction to PERT. Occasional paper 64-156,
 Bureau of Educational Research and Service, The Ohio State
 University, 1964.
- 5. Cook, Desmond L., <u>Applications of PERT to Education</u>. Address presented at the PERT Workshop, The Ohio State University, May 1965.
- 6. Cook, Desmond L., "Applications of PERT to Education." Research
 Development and Coordination Seminar Report, Center for
 Vocational and Technical Education, The Ohio State University,
 1966.
- 7. Cook, Desmond L., PERT. Applications in Education. Cooperative Research Monograph, U. S. Office of Education, Department of Health, Education, and Welfare, Washington, D. C., 1966.
- 8. Cook, Desmond L,, <u>PERT Applications in Educational Planning</u>, <u>Paper</u> presented at Annual Meeting of the Association of Educational Data Systems, Philadelphia, Pennsylvania, May 3, 1966.
- 9. Cook, Desmond L., "PERT Specialists" Opinions About Applying PERT Techniques to Educational Research and Development Projects," Bulletin II, PERT Project, School of Education, The Ohio State University, August 5, 1964.



- 10. Cook, Desmond L., "Some Preliminary Considerations in Applying PERT to Educational Research and Development Activities," Bulletin 10, PERT Project, School of Education, The Ohio State University, July 27, 1964.
- 11. Coon, Lewis H., Applying PERT to a Variable Manipulating Project.

 Occasional Paper 64-157, The Bureau of Educational Research
 and Service, The Ohio State University, 1964.
- 12. Deck, L. Linton, Jr., PERT and Educational Administration, Doctorate Qualifying Paper, Harvard University, May 1966.
- 13. Dombrow, Roger T., "How CPM Works for a School District," School Management, 7.104ff, July 1963.
- 14. Dombrow, Roger T., "How to Meet Your Construction Deadlines,"
 School Management, 7:99-103, July, 1963.
- 15. Haga, E. J., "PERT, What it is, How it Works," <u>Journal of Business</u>
 <u>Education</u>, November 1965, pp. 72-73.
- 16. Kaimann, Richard A., "Educators and PERT," <u>Journal of Educational</u>

 <u>Data Processing</u>, Vol. 3, No. 2, Spring 1966, pp. 43-57.
- 17. Klein, Herbert E., "Psychoanalysis on the Production Line," <u>Dun's</u>
 Review and <u>Modern Industry</u>, 79:54-60, February 1962.
- 18. Knezevich, S. J., "PERT A Powerful Planning, Control, and Decision Making Tool for School Administrators." Address presented at the Convention of American Association of School Administrators, 1966.
- 19. Liebeskind, Morris, "Critical Path Method in School Building Design,"

 American School and University, February & April, 1965, 44ff.
- 20. Nelson, Orville, "Critical Path Analysis in Industrial Arts,"

 Industrial Arts and Vocational Education, September 1965,
 pp. 43-45.
- 21. Pilder, William F., A Study of PERT and Its Application to the Training of Educational Administrators, Master's Thesis, College of Education, The Ohio State University, 1966.
- 22. Rice, Arthur H., "Let PERT Put You in the Driver's Seat," Nation!s
 Schools, 76: 28-29, August 1965.
- 23. Simons, Howard, "PERT: How to Meet a Deadline," In Educational Administration: Selected Readings, Walter Hack (Ed), Allyn & Bacon, Boston, 1965, pp. 227-285.

- 24. Smith, Edwin D., "The Use of PERT in Education," <u>Proceedings of the Ninth College and University Machine Records Conference</u>,

 Don Morrison (Ed.), Monograph No. 4, Educational Systems
 Corporation, Falo Alto, California, 1964.
- 25. Stufflebeam, D. L., <u>Applying PERT to a Test Development Project</u>.

 Occasional Paper 64-162, Bureau of Educational Research and
 Service, The Ohio State University, 1964.
- 26. Taylor, H. A. and McIsaac, D. N., "How PERT Works to Speed School Building Programs," Nation's Schools, 73:46-47, June 1964.
- 27. Thier, Herbert D. PERI and the Administration of Curriculum Innovation, Science Curriculum Improvement Study, University of California, Beckeley, California (Mimeo).
- 28. Vento, Charles J., "PERTing the Automated Catalog," <u>Audio-Visual</u> <u>Instruction</u>, Vol. II, No. 3, March 1966, pp. 182-185.
- 29. Voorsanger, Neil, <u>Management Decision-Making for Educators</u>, Paper presented at Conference on the Impact of Educational Technology, American Management Association, July 1965.
- 30. Ray, Willis E. and Towers, Edward R., "PERT--A New Approach for Planning and Managing Research in Vocational Education,"

 Journal of Industrial Teacher Education, Vol. 3, No. 3,

 Spring 1966, pp. 19-24.
- 31. Robert, Charles, "Car the Computer Design a School Building?"
 Proceedings of the 42nd Annual Meeting, National Council on Schoolhouse Construction, 1964, pp. 32-37.
- 32. Meals, Donald W., Heuristic Models for Systems Planning, Phi Delta Kappan, 48:199-203, January 1967.
- 33. Stephen, E. Robert, A PERT Network Analysis for the Area X Vocational School, lowa Center for Research in School Administration, University of Iowa, May 1966.
- 34. Introduction to PERT, State Board for Vocational Education, Olympia, Washington, 1964.
- 35. Schneider, Erwin H. and Henry L. Cady, <u>Education and Synthesis of Research Studies Related to Music Education</u>. Final Report, Cooperative Research Project No. E-016, U. S. Office of Education, 1965.
- 36. G. Truman Hunter, "An Information System for School Management,"

 Educational Data Processing Newsletter, Vol. 4, June-July, 1965.
- 37. D. R. Krathwohl, <u>How to Prepare a Research Proposal</u>, Syracuse University Bookstore, 303 University Place, Syracuse, New York 13210.



- 38. J. E. Justus, "PERT A Management Tool You Can Use" <u>School Management</u>, vol. 11. December, 1967, pp. 24-29.
- 39. Jerry C. Garlock. "PERT: A fectorique for Education" Educational Leadership, vol. 25, January 1968, pp. 345-353.



Educational Research Management Center School of Education The Ohio State University Columbus, Ohio 43210

REFERENCES ON RESEARCH MANAGEMENT

1

- 1. R. D. Archibald and R. L. Villoria, <u>Network-Based Management Systems</u>, John Wiley & Sons, New York, New York, 1967.
- 2. The Administration of Government Supported Research at Universities, Bureau of the Budget, March 1966.
- 3. The Administration of Research Grants in the Public Health Service, 9th Report of the Committee on Government Operations, House of Representatives, 90th Congress, October 20, 1967.
- 4. Gwen Andrew, "Some Observations on Management Problems in Applied Social Research", The American Sociologist, May 1967, pp. 84-89.
- 5. Applied Science and Technological Progress, A Report to the Committee on Science and Astronautics, U.S. House of Representatives by The National Academy of Sciences, June 1967.
- 6. E. M. Babb and L. M. Eisgruber, <u>Management Games for Teaching and Research</u>, Educational Methods, Inc., 20 E. Huron Street, Chicago, Illinois 60611, 1966.
- 7. John S. Baumgartner, <u>Project Management</u>, Richard D. Irwin, Homewood, Illinois, 1963.
- 3. D. Beckler, "Strategic Federal Decision-Making in R and D", <u>Research Management</u>, 9:319-333. September 1966.
- 9. Robert H. Bock and William K. Holstein, <u>Production Planning and Control</u>, Charles E. Merrill Books, Inc., Columbus, Ohio, 1963.
- 10. Arthur H. Brayfield, "Inquiry on Federally Sponsored Social Research", <u>The American Psychologist</u>, 22:893-903, November 1967.
- 11. Harvey Brooks, "Science and the Allocation of Resources", The American Psychologist, 22:187-201, March 1°7.
- 12. Jesse Burkhead, <u>Input and Gutput in Large City Schools</u>, Syracuse University Press, 1977 (Chs. 2 and 6).
- 13. Edward C. Bursk and John F. Chapman (Eds.), <u>New Decision-Making Tools for Managers</u>, Harvard University Press, 1963.
- 14. Ralph I. Cole (Editor), <u>Improving Effectiveness in R and D</u>, Thompson Book Co., Washington, D. C., 1967.
- 15. <u>Current Issues in the Administration of Federal Social Research</u>, The Use of Social Research in Federal Domestic Programs, Committee on Government Operations, House of Representatives, 90th Congress, April 1967.



- 16. Burton V. Dean (Ed.), Operations Research in Research and Development, John Wiley and Sons, New York, 1963.
- 17. Stephen Enke (Ed.), <u>Defense Management</u>, Prentice Hall, Inc., Englewood Cliffs, New Jersey, 1967.
- 18. Federal Support for Academic Science and Other Educational Activities in Universities and Colleges, 1963-1966, NSF67-14, National Science Foundation, 1967.
- 19. E. Glatt, "Research and Application: An Approach to Management Problems in an R and D Laboratory", <u>ILEE Transactions on Engineering Management</u>, Vol. EM-11, 90-94, September 1964.
- 20. Nathan Goldford and William Kaiser, <u>Gantt Charts and Statistical Quality Control</u>, Hofstra University Yearbook of Business, Vol. 1, Series 1, Hofstra University, Hempstead, New York, March 1964 (pages 1-115, 306-313).
- 21. D. S. Greenberg, 'Research Administration: Study Urges Universities to Improve Methods', Science, 152:624-262, April 29, 1966.
- 22. P. E. Haggerty, "Research Management: A Survival Issue", <u>IIEE Transactions</u> on Engineering Management, Vol. Em-11, 3-7, March 1964.
- 23. G. Huber, "Implications of Organization Theory for Research Management", Research Management, 10:301-307, September 1967.
- 24. Thomas W. Jackson and Jack M. Spurlock, Research and Development Management, Dow Jones-Irwin, Inc., Homewood, Illinois, 1966.
- 25. Richard A. Johnson, Fremont E. Kast, and James E. Rosenzweig, <u>The Theory and Management of Systems</u>, McGraw-Hill Book Company, 1963.
- 26. Leonard J. Kazmier, Principles of Management, McGraw-Hill Company, 1964.
- 27. Charles E. Kepner and Benjamin B. Tregoe, <u>The Rational Manager</u>, McGraw-Hill Book Company, 1966.
- 28. Preston P. LeBreton and Dale A. Henning, <u>Planning Theory</u>, Prentice-Hall, N.J., 1961.
- 29. B. C. Lemke and James D. Edwards (Eds.), <u>Administrative Control and Executive Action</u>, Charles E. Merrill Books, Inc., Columbus, Ohio, 1961.
- 30. Ross Mooney, "Problems in Initiating a Project", Theory Into Practice, 5:139-143, June 1966.
- 31. William H. Newman and Charles E. Summer, <u>The Process of Management</u>, <u>Prentice</u>-Hall, Englewood Cliffs, New Jersey, 1961
- 32. A. H. Nissan, "Similarities and Differences Between Industrial and Academic Research", Research Management, 9:211-219, July 1966.



- 33. David Novick, Program Budgeting, Harvard University Press, 1966.
- 34. Stanford L. Optner, <u>Systems Analysis for Business Management</u>, Prentice-Hall, New York, 1960 (Chapters 1-9).
- 35. D. C. Pelz and F. M. Andrews, <u>Scientists in Organizations: Productive</u>
 Climates for Research and Development, John Wiley and Sons, New York, 1966.
- 36. Alan Pons, Research Management, Organization for Economic Cooperation and Development, Paris, 1965.
- 37. The Program Management Officer: A Developing Management Concept, Public Health Monograph, No. 75, U. S. Department of Health, Education, and Welfare, 1965.
- 38. Wilson Randle, "Problems of R and D Management", <u>Harvard Business Review</u>, 37:128-136, February 1959.
- Report of the Secretary's Advisory Committee on the Management of NIH Research Contracts and Grants, U. S. Department of Health, Education, and Welfare, March 1966.
- 40. Research Program Effectiveness (M. C. Yovits, et al, Ed.), Proceedings of the Conference sponsored by the Office of Naval Research, Washington, D. C., July 27-29, 1965. Gordon and Beach, Science Publishers, Inc., 150 Fifth Avenue, New York, New York, 10011, 1966.
- 41. E. B. Roberts, "Research on the Management of Technology-Based Enterprises", IIEE Transactions on Engineering Management, Vol. EM-11, 99-102, September, 1964.
- 42. D. D. Roman, "An Overview of the R and D Managerial Problem" in Ralph Cole (Ed.), Improving Effectiveness în R and D, Academic Press, 1964.
- 43. Study of the United States Office of Education, Committee on Education and Labor, House of Representatives, 89th Congress, 1967.
- 44. Sam Sieber, The Organization of Educational Research in the U. S., Final Report, Cooperative Research Project No. 1974, Office of Education, U. S. Department of Health, Education, Welfare, 1966.
- 45. R. Villers, Research and Development: Planning and Control, Financial Executives Research Foundation, Inc., New York, 1964.
- 46. H. M. Vollmer, Work Activities and Attitudes of Scientists and Research Managers, Stanford Research Institute, Menlo Park, California, May 1965,
- 47. H. S. Woodgate, <u>Planning by Network</u>, Business Publications Limited, London, England, 1964. (Available from Ambassadors Books, 370 Alliance Avenue, Toronto 9, Ontario, Canada.)
- 48. M. C. Yovits, "Information Requirements and Use for Research and Development Planning" in J. Spiegel and D. Walker (Editors), <u>Proceedings of the Second Congress of the Information System Sciences</u>, Spartan Books, Inc., Washington, D. C., 1965.



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REFERENCES ON PROJECT SELECTION

- 1. N. R. Baker and W. H. Pound, "R and D Project Selection: Where We Stand", ILEE Transactions on Engineering Management, Vol. EM-11, pp. 124-134, December 1964.
- R. G. Brandenburg, "Project Selection in Industrial R & D: Problems and Decision Processes", <u>Research Program Effectiveness</u> (M. Yovits, Ed.), 1966.
- 3. C. K. Buell, "When to Terminate a Research and Development Project", Research Management, 10:275-284, July 1967.
- 4. R. H. Collcut and R. D. Reader, "Choosing the Operational Research Program for B.I.S.R.A.", Operational Research Quarterly, 18:219-242.
- 5. David B. Hertz and Phillip G. Carlson, "Selection, Evaluation, and Control of Research and Development Projects" in <u>Operations Research in Research and Development</u>, (B. Dean, Ed.), John Wiley & Sons, 1963.
- 6. N. M. Kamranz, et al, A Heuristic Investment Model for Nonprofit Research, Systems Development Corporation, Santa Monica, California, August 29, 1966.
- 7. C. M. Mottley and R. D. Newton, "The Selection of Projects for Industrial Research", Operations Research, 7:740-751, November 1959.
- 8. R. Villers, Research & Development: Planning and Control, Financial Executives Research Foundation, New York, 1964, Chapter 4.
- 9. C. K. Robbins, <u>A Management System for Exploratory Development</u>, Air Force Flight Dynamics Laboratory, Wright-Patterson Air Force Base, Ohio (undated).
- 10. H. H. Rosenberg and H. M. Bain, Jr., <u>Program Planning for Research and Development in the Navy</u>, Washington Research Office, Syracuse University, January 1964.
- 1]. J. M. Rosenfeld and Mathew Smith, "R and D Planning in the Decentralized Organization", Research Management, 10:425-438, November 1967.
- 12. A. H. Rubenstein, A Real-Time Study of Information Requirements for Project Selection in Research and Development, The Technological Institute, Northwestern University, Evanston, Illinois, August 1966.
- 13. W. J. Sacco, On the Choice of Long Study Tasks, Ballistic Research Laboratories, Aberdeen Proving Ground, Maryland, August 1965.



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REFERENCES FOR PROGRAM MANAGEMENT

- 1. Gwen Andrew, "Some Observations on Management Problems in Applied Social Research", The American Sociologist, May 1967, pp. 84-89.
- 2. John S. Baumgartner, <u>Project Management</u>, Richard D. Irwin, Inc., Homewood, Illinois, 1963.
- 3. David i. Cleland, "Why Project Management?", Business Horizons, 7:81-88, 1964.
- 4. John Dearden and F. Warren McFarlan, Management Information Systems: Texts and Cases, Richard D. Irwin, Inc., Homewood, Illinois, 1966, (ch. 4).
- 5. Paul O. Gaddis, "The Project Manager", <u>Harvard Business Review</u>, 37:89-97, June 1959.
- 6. IBM System 360, Project Management System Application Description, H20-0201-0, International Business Machines, White Plains, N. Y., 1966.
- 7. Ross Mooney, "Problems in Initiating a Project", Theory Into Practice, 5:139-143, June 1966.
- 8. D. C. Robertson, <u>Project Planning and Control</u>, Chemical Rubber Co., Cleveland, Ohio, 1967.
- 9. H. S. Woodgate <u>Planning by Network</u>, Business Publications, Limited, London, England, 1964.

