

DR. JAY GOLDMAN

PERSONAL INFORMATION

Date of Birth: 4-15-30

Home Address: 6068 Brookhill Circle
Birmingham, AL 35242

Marital Status: Married
Dr. Renitta L. Goldman

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PROFESSIONAL EXPERIENCE

Distinguished Service Professor and Dean Emeritus, School of Engineering, University of Alabama at Birmingham (UAB), 2002 – Present

Associate Director for Research and Scientific Oversight, The UAB University Transportation Center, 2006 – Present

Assistant Director and Co-Principal Investigator, The Southern Consortium for Injury Biomechanics, 2000 – Present

Professor of Engineering, School of Engineering, (UAB), 1984 – 2002

Dean, School of Engineering, UAB, 1984 – 1996

Professor, Department of Civil and Environmental Engineering, School of Engineering, UAB, 2000 – Present

Professor, Department of Health Services Administration, School of Health Related Professions, UAB, 1986 – Present

Senior Scientist, Associate Director for Research and Scientific Oversight and Member of Center Management Committee, Injury Control Research Center, UAB, 1986 – Present

Senior Scientist and Member of Center Advisory Committee, Center for Outcomes and Effectiveness Research and Education, UAB, 1998 – Present

Distinguished Research Engineer and Chair of Center Management Committee, Center for Telecommunications Education and Research, UAB, 1996 – Present

Professor and Chairman, Department of Industrial Engineering, University of Missouri-Columbia (UMC), 1968 – 1984

Professor, Bioengineering/Advanced Automation Program, UMC, 1975 – 1984

Professor, Bioengineering Program, UMC, 1969 – 1975

Professor and Graduate Administrator, Department of Industrial Engineering, North Carolina State University, 1964 – 1968

Research Associate, Department of Hospital Administration, University of North Carolina – Chapel Hill, 1964 – 1968

Acting Chairman, Human and Organization Factors Area and Assistant Professor of Engineering, Washington University in St. Louis (WU), 1963 – 1964

Director, Industrial Engineering Department, The Jewish Hospital of Saint Louis, 1960 – 1964

Assistant Professor, Department of Industrial Engineering, WU, 1956 – 1963

Lecturer, Department of Industrial Engineering, WU, 1955 – 1956

Lecturer, Industrial Management, WU, 1952 – 1955

Graduate Assistant, WU, 1952 – 1954

Assistant, Michigan State University, 1950 – 1951

Assistant, Duke University, 1949 – 1950

PROFESSIONAL ACTIVITIES

Presentations before over 90 business and professional organizations (see supplemental information).

Consultant to 35 local and national organizations as well as the United States Government (see Supplemental Information).

Held national and local office or was a member of over a dozen professional and scientific organizations (see Supplemental Information).

Currently a member of:

Alabama Society of Professional Engineers
American Society for Engineering Education
Engineering Workforce Commission
 Member, Publications and Projects Committee
 Head, Review Board for Engineering Enrollment Survey
Institute of Industrial Engineers
 Fellow of the Institute
 Director of ABET Affairs
 Life Member of the Institute
 Fred C. Crane Distinguished Service Award Recipient
 Medallion Award Recipient
National Society of Professional Engineers
Society for Health Systems

Held membership on 36 Federal, State and University National Advisory Panels and Study Sections (see Supplemental Information).

PROFESSIONAL REGISTRATION

Registered as E.I.T. with Missouri State Board for Architects, Professional Engineers and Land Surveyors, 1955 – 1957

Registered Professional Engineer, Missouri State Board for Architects, Professional Engineers and Land Surveyors, Registration Number E7945, 1957 – Present

PATENTS

Universal Operator Performance Analyzer and Recorder (UNOPAR), Patent No. 2914730

Digital Telepathology Imaging System, Patent Pending

EDUCATION

Duke University, B.S.M.E., June 1950
Michigan State University, M.S.M.E., August 1951
Washington University in St. Louis, D.Sc. (Industrial Engineering), August, 1955

THESIS AND DISSERTATION RESEARCH

Master's Thesis, "Determination of Power Requirements of Slider- Belt Conveyor with Various Loads, Belts, and Beds"

Doctoral Dissertation, "Development and Testing of an Electronic Method for

Determining Acceleration, Constant Velocity, and Deceleration of Body Motions",
Copyright 1956

"Abstract of Development and Testing of an Electronic Method for Determining
Acceleration, Constant Velocity, and Deceleration of Body Motions", Library of
Congress, 1956

ARTICLES

Authored or co-authored 75 technical publications (see Supplemental Information).

MONOGRAPHS AND TEXTBOOK CONTRIBUTIONS

Authored, co-authored or contributed to 17 monographs and textbooks (see
Supplemental Information).

TECHNICAL MOTION PICTURES

Produced or directed six technical motion pictures (see Supplemental Information).

CIVIC ACTIVITIES

Judge for Science Fair, St. Louis, Missouri, 1956

Delegate for St. Louis – St. Louis County White House Conference on Education, 1958

Consultant, St. Louis County Traffic Commissioner, 1958-1959

Vice-President, B'nai Brith Hillel Foundation Building Corporation, State of Missouri,
1970-1975

Vice-President, Spinoza Lodge, B'nai Brith, 1971

Vice-President, Boone County Community Services Council, 1973 – 1976

Member, Executive Committee, Community Relations Committee, Birmingham Jewish
Federation, 1988 – 1997

Treasurer, 1991 – 1992

Vice President, 1992 – 1996

Member, Board of Directors, Birmingham Jewish Federation, 1989 – 1995

Member, Budget Committee, Birmingham Jewish Federation, 1995 – 1998

Member, Board of Directors, Sloss Furnaces National Historic Landmark, 1989 –
Present

Vice Chair – Board of Directors, 1995-97

Member – Board Committee on Metal Arts, 1990-91

Chair – Board Committee on Preservation and Development, 1990 – 1993

Member – Board Committee on Buildings and Grounds, 1993 – Present

Member, Steering Committee, Alabama School of Fine Arts Math-Science
Program, 1989 – 2000

Member, Board of Directors, Temple Emanu El, Birmingham, AL, 1989 – 1993

Treasurer, Sloss Center for Metal Arts, 1990 – 1991

Member, Executive Review Board, 1991 Engineering and Science Explorers' Conference, 1990 – 1991
Member, Vocational Consultation Committee, Jewish Family Services of Birmingham, 1992 – Present
Member, Board of Directors and Executive Committee, Jewish Family Services of Birmingham, 1997
Treasurer, Jewish Family Services of Birmingham, 1997
Member, Finance Committee, Jewish Family Services of Birmingham, 1996 – 1997
Member, Executive Advisory Board, Engineering Council of Birmingham, 1992 – 1996
Member, Coalition Against Hate Crimes, 1992 – Present
Member, Board of Directors, Alabama Engineering Hall of Fame, 1995 – 1997
Member, Legislative Council, State of Alabama Office of the Lieutenant Governor, 1996 – 1998
Member, State Technology Steering Committee, Alabama Department of Economic and Community Affairs, 1996 – 1998
Member, MAX Transit Advisory Committee, 2003 – 2004

HONORS

Alpha Pi Mu
Omicron Delta Kappa
Phi Kappa Phi
Society of Sigma Xi – Full Member
Tau Beta Pi
First Place - College Award, R.H. Landes Method Improvement Competition, Industrial Management Society for Washington University in St. Louis, 1953 – 1954
Foundation for Economic Education Fellowship, 1955
Hospital Management Magazine Editorial Award, 1969
Institute of Industrial Engineers, Health Services Division Award, 1981
University of Missouri-Columbia, Faculty – Alumni Award, 1981
Member, The Order of the Engineer, 1987
Engineering Educator-of-the-Year, State of Alabama, Alabama Society of Professional Engineers – PEE Division, 1992
Engineer-of-the-Year, Alabama Society of Professional Engineers, Birmingham Chapter, 1992
Engineer-of-the-Year, Engineering Council of Birmingham, 1992
Engineer-of-the-Year, State of Alabama, 1993 – 1994
Honorary Alumnus Award, UAB National Alumni Society, 1996
Fellow, Accreditation Board for Engineering and Technology, 1998
Fred C. Crane Distinguished Service Award, Institute of Industrial Engineers, 1999
Medallion Award, Institute of Industrial Engineers, 2004

LISTINGS

Who's Who in America
Who's Who in Engineering
Who's Who in Science and Engineering
Who's Who in American Education
American Men and Women of Science
Who's Who in Technology
Leaders in American Science
National Directory of Injury Prevention Professionals
Who's Who in the South and Southwest
Who's Who of Birmingham
Who's Who in the Midwest
Dictionary of International Biography

DR. JAY GOLDMAN

SUPPLEMENTAL INFORMATION

PROFESSIONAL ORGANIZATIONS

Alabama Council of Engineering Deans, 1984-96

Alabama Society of Professional Engineers, 1984-
Vice President, Birmingham Chapter, 1987-88
Secretary, Birmingham Chapter, 1986-87
Chairman, Engineering Education Standing Committee, State Society, 1986-87
Chairman, Professional Engineers in Education, State Society, 1987-88
Chairman, Engineer-of-the-Year Award Committee, 1995-96

American Association of Engineering Societies, 1994-
Engineering Workforce Commission
Member, Publications and Projects Committee, 1997-
Head, Review Board for the Enrollment Survey, 1997-

American Materials Handling Society, 1955-57
Librarian, St. Louis Chapter, 1955-56

American Society for Engineering Education, 1956-75, 1985-
Member, Relations with Industry Division, 12th Annual Conference Committee, 1959
Secretary, Missouri-Arkansas Section, 1963
Engineering Dean's Council, 1984-96
Campus Liaison Board, 1985-88

American Society for Heating, Refrigeration and Air Conditioning, 1970-76
Member, National Technical Committee on Physiology and Human Comfort,
1970-76

Institute of Industrial Engineers, 1954-
National Activities
Co-Chairman, National Research Information Committee, 1956-58
Chairman, National Research Information Committee, 1958-69
Member, National Publications Coordination Committee, 1959-60
Representative to Engineers Joint Council Committee on Engineering Information
Services, 1961-67
Vice-President, Midwest Region, 1961-62
Member, Board of Trustees, 1961-62 and 1981-83 and 1984-86
Member, Editorial Board of Journal of Industrial Engineering, 1965-69
Member, National Research and Development Group, 1967-69
Member, Editorial Board of I.I.E. Transactions, 1969-89

National Director, Research and Development, 1969-73
Program Director, Hospital and Health Services Division, 1970
National Director, Hospital and Health Services Division, 1971-72
Member, Academic Program Committee, Hospital & Health Services Division,
1975-80
Fellow of the Institute, 1978-
National Director of Academic Affairs, 1980-81
Vice-President, Education & Professional Development, 1981-83
Chairman, Education Policy Board, 1981-83 and 1995-00
Member, Education Policy Board, 1987-91
Chairman, Student Advisory Board, 1981-83
Member, National Nominating Committee, 1981 and 1984
Executive Vice President, 1984-86
National Director of ABET Affairs, 1987-
Member, Program Advisory Council, 1988-90
Life Member of Institute, 1989-
Member, Women, Minorities and Handicapped in Engineering Task Force,
1990-91
Fred C. Crane Distinguished Service Award, 1999
Medallion Award, 2004

Local Activities (St. Louis Chapter):

Faculty Advisor, Washington University Student Chapter, 1956-57
Chairman, Student Relations Committee, 1956-57
Member, Program Committee for Midwest Regional Work
Measurement Conference, 1957
Chairman, Research Committee, 1957-58
Member, Program Committee, 1957-58
Chairman, Professional Registration Project, 1957-58
Chairman, Special Projects Committee, 1958-59
Vice-President, 1958-59
President, 1959-60
Member, Board of Directors, 1958-62
Chairman, Job Opportunities Committee, 1960-64

Local Activities (Eastern North Carolina Chapter):

Chairman, Program Committee, 1965
Director, 1967-68

Joint Council of the Associated Engineering Societies of St. Louis, 1958-60

Chairman, Education Committee, 1958-60

Missouri Academy of Science, 1969-72

Missouri Society of Professional Engineers, 1956-62

Member, Educational Committee, St. Louis Chapter, 1956-57

Chairman, Educational Committee, St. Louis Chapter, 1957-60
Vice-Chairman, Educational Committee, Missouri State Society, 1959-60

Council of Industrial Engineering Academic Department Heads, 1968-84
Assistant Secretary and Treasurer, 1976-77
Secretary, 1977-78
Vice Chairman, 1978-79
Chairman, 1979-80
Member, Executive Committee, 1976-81
Member, Annual Conference Committee, 1982-83

National Society of Professional Engineers, 1956-62 and 1984-
Member Liability Committee, PEE Division, 1986-90

Operations Research Society of America (Full Member), 1969-82
Vice-Chairman/Chairman Elect, Health Applications Section, 1972
Chairman, Health Applications Section, 1973-74
Member, Health Applications Section Council, 1972-76
Member, Health Applications Section, 3rd Annual Symposium Committee, 1975
Member, Health Applications Section, Nominations Committee, 1977

Society for Design and Process Science, 1999-2002

Society for Health Systems, 1988-
President, 1988-89
Past President, 1989-90
Chair, SHS Nominating Committee, 1989-90
Chair, SHS Honors and Awards Committee, 1989-90
Member, Board of Directors, 1988-90

SPONSORED RESEARCH ACTIVITIES

Project Director, Office of Naval Research Contract NONR 816-08, Washington
University in St. Louis, 1956-58

Project Director, N.S.F. Undergraduate Research Participation Grant 61410-0207, North
Carolina State University, 1965-66

Co-Principal Investigator, U.S. Public Health Service Research Grant HM 00479, "Unit
Administrator Plan", Duke University Medical Center, 1966-68

Investigator, U.S. Public Health Service Research Grant RM 00009- 0100RSD,
"Operations Research and Systems Design", Missouri Regional Medical Program,
1970-71

Investigator, U.S. Public Health Service Research Grant HS00646, "Missouri Automated

Radiology System", University of Missouri-Columbia (UMC),1971-73

Staff Member, Missouri Regional Medical Program Central Core Planning Staff,
Missouri Regional Medical Program, 1971-73

Co-Principal Investigator, National Center for Health Services Research and
Development Contract HSM110-72-119, "Operation of an Automated Physician's
Assistant System", UMC, 1973-75

Project Director, U.S. Public Health Service Research Fellowship Grant HS00103,
"Health Care Systems Design Training Grant", UMC, 1975-80

Chairman, Executive Committee, National Center for Health Services Research Grant
HS02569 "Health Services Research Center and Special Emphasis Health Care
Technology Center", UMC, 1976-80

Investigator, Missouri Kidney Program Research Grant, "A Methodology for Predicting
the Effects of Applying Alternative End Stage Renal Disease Cost Containment
Strategies", Missouri Kidney Program, 1981-82

Investigator, Society for Manufacturing Engineers Grant, "Manufacturing Engineering
Education", UMC, 1982-83

Co-Director, Small Business Administration Grant, "Integrated Manufacturing
Technology Project", UMC, 1983-84

Co-Primary Investigator, State of Missouri Contract, "Productivity Enhancement
Program for Missouri Industry", UMC, 1983-84

Member, Center Management Committee and Investigator, Centers for Disease Control
Grant R49/CCR403641, Injury Control Research Center, University of Alabama
at Birmingham (UAB), 1989-

Co-Principal Investigator, BellSouth Corporation Contract, "Anatomic TelePathology
Applications Research Project", Center for Telecommunication Education and
Research, UAB, 1995-97

Investigator, National Institute of Standards and Technology Contract 634394,
"Anatomic Telepathology Applications Research", UAB, 1996-99

Co-Principal Investigator, US Department of Transportation, F.T.A. Cooperative
Agreement AL-26-7021, "The Greater Cities Universities Transportation Initiative",
2000 –

Co-Principal Investigator, U.S. Department of Transportation, FHWA Contract 180122,
"The Southern Consortium for Injury Biomechanics at the UAB ICRC-Phase 2", 2002

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Co-Principal Investigator, U.S. Department of Transportation, NHTSA Project, “The Southern Consortium for Injury Biomechanics at the UAB ICRC-Phase 1”, 2002-

ADVISORY PANELS AND STUDY SECTIONS

Member, Advisory Board, Cooperative Information Center for Hospital Management Studies, 1964-68

Member, Health Facilities Demonstration Grants Advisory Committee, Bureau of State Services, USPHS, DHEW, 1967-68

Member, Health Care Systems Study Section, National Center for Health Services Research and Development, H.R.A., DHEW, 1968-72

Member, Advisory Panel, System Safety Engineering Program, North Carolina State University, 1968-74

Member, National Advisory Panel of Health Care Systems Graduate Program, Rensselaer Polytechnic Institute, 1971-73

Member, National Advisory Panel, National Cooperative Services Center for Hospital Management Engineering, Hospital Research and Educational Trust, AHA, 1973-75

Member, Health Services Developmental Grants Study Section, National Center for Health Services Research, DHEW, 1973-77

Member, Blood Diseases and Resources Advisory Committee, National Heart, Lung and Blood Institute, NIH, DHEW, 1974-77

Member, Certificate of Need Legislation Task Force, State of Missouri, 1975

Member, National Advisory Committee, Center for Hospital Management Engineering, AHA, 1976-77

Member, Chronic Disease Information System Panel, National Center for Health Services Research, DHEW, 1976-79

Member, Committee on Health Services Research, Institute of Medicine, National Academy of Science, 1977-78

Member, Cost Containment Review Panel, Missouri Kidney Program, 1977-80

Member, Research Contract Review Group, National Heart, Lung and Blood Institute, N.I.H., DHEW, 1980

Member, Editorial Board, Hospital Information Management, Brentwood Publishing Corporation, 1981-82

Chairman, Cost Containment Review Panel, Missouri Kidney Program, 1981-83

Member, Technical Review Group for Community Cancer Care Evaluation, National Cancer Institute, N.I.H., D.H.H.S., 1983

Member, Board of Directors, Accreditation Board for Engineering and Technology, Inc.(ABET), 1983-94

Program Committee, ABET's 53rd Annual Meeting, 1985

Nominating Committee, 1986-88

Finance Committee, 1987-90 and 1991-94

Chair, 1987-88 and 1989-90

Constitution and Rules of Procedure Committee, 1990-91

Industrial Involvement Committee, 1990-91

Program Evaluator and Team Chair Training Task Force, 1991-92

Treasurer, 1991-94

Executive Review Committee, 1992-94

Fellow, 1998

Member, Community Clinical Oncology Program Evaluation Advisory Committee, National Cancer Institute, N.I.H., D.H.H.S., 1983-87

Member, Blue Ribbon Committee, Association of Textile Industrial Engineers Scholarship Award Program, 1986-89

Member, Medical Informatics Research Training Special Review Committee, National Library of Medicine, N.I.H., D.H.H.S., 1987

Chairman, Technical Review Group for Assessment of the Community Clinical Oncology Program, National Cancer Institute, N.I.H., D.H.H.S., 1987

Chairman, Community Clinical Oncology Program Evaluation Advisory Committee, National Cancer Institute, N.I.H., D.H.H.S., 1988-92

Member, CIT Technical Evaluation Review Group, National Library of Medicine, N.I.H., D.H.H.S., 1988

Member, Outreach Program Panel, National Library of Medicine, N.I.H., D.H.H.S., 1988-89

Member, PDQ Technical Review Group, National Cancer Institute, N.I.H., D.H.H.S., 1990

Member, Safety and Occupational Health Study Section, Centers for Disease Control, D.H.H.S., 1990-93

Chairman, Safety and Occupational Health Study Section, Centers for Disease Control and Prevention, D.H.H.S., 1992-93

Member, Commission on Education for the Engineering Professions, National Association of State Universities and Land Grant Colleges, 1991-92

Member, Joint Curriculum Development Task Force, National Consortium for Technology in Business, 1992

Member, Technical Evaluation Group, National Library of Medicine, N.I.H., D.H.H.S., 1993

Member, National Advisory Committee, School of Engineering Technology, University of Nebraska at Omaha, 1994

Chairman, Committee to Study the Registration Law Regulating the Practices of Engineering and Land Surveying in the State of Alabama, 1994-95

Member, Fundamentals of Engineering Examination Advisory Board, Professional Publications, 1995-

Member, Board of Directors, Alabama Engineering Hall of Fame, 1995-97

Member, State Technology Steering Committee, Alabama Department of Economic and Community Affairs, 1996-98

Member, National Library of Medicine Long Range Planning Group, 1999

ARTICLES

1. "Analyzing Your Materials Handling Problem", Mill and Factory June, 1954; Co-author G. Nadler
2. "Electronics for Measuring Human Motions", Science, October, 1956; Co-author G. Nadler
3. "The UNOPAR", Journal of Industrial Engineering, January- February 1958; Co-author G. Nadler
4. "Operator Performance Studies I: One-Plane Motion Learning", Journal of Industrial Engineering, May-June, 1958; Co-author G. Nadler
5. "Measuring the Components of Work Performance", Research, September,

- 1958; Co-author G. Nadler
6. "Measuring Human Motions for Designing Machines", The Engineering Journal, June, 1959; Co-author G. Nadler
 7. "Measuring Human Work Performance", Electronics, March, 1961; Co-author D.K. Ross
 8. "A Look at Human Measurements in Industry", Proceedings of the Interdisciplinary Clinic on the Instrumentation Requirements for Psychophysiological Research, Foundation for Instrumentation Education and Research, May, 1961
 9. "We Combined Intensive and Recovery Units", The Modern Hospital, January, 1963; Co-authors P. Bassin and S. Sandler
 10. "Can We Train More Effectively?" Journal of Industrial Engineering, March-April, 1963; Co-author H. Eisenberg
 11. "Operator Performance Studies II: Three-Plane Motion Learning", Journal of Industrial Engineering, September-October, 1963; Co-author G. Nadler
 12. "Work Design", Proceedings of the International Conference, American Institute of Industrial Engineers, September, 1963
 13. "On the Job Learning", Electronic-Electromechanical Production, November-December, 1963; Co-author H. Eisenberg
 14. "Design of a Hospital Medication System", The Modern Hospital, September, 1964; Co-author P. Bassin
 15. "Information Theory and Industrial Learning", Journal of Industrial Engineering, September-October, 1965; Co-author L.W. Hart, Jr.
 16. "Effects of Computers on Patient Care", Medical College of Virginia Quarterly, Winter, 1966
 17. "Implementation of a Change", Nursing Research, May-June, 1968; Co-author L. R. Freund
 18. "Simulation of Operating Room Scheduling Policies", Proceedings of the 19th Annual Conference, American Institute of Industrial Engineers, 1968; Co-author H.A. Knappenberger
 19. "Evaluating Bed Allocation Policy with Computer Simulation", Health Services Research, Summer, 1968; Co-authors H. A. Knappenberger and J.C. Eller

20. "How to Determine the Optimum Number of Operating Rooms", The Modern Hospital, September, 1968; Co-author H. A. Knappenberger
21. "An Evaluation of Operating Room Scheduling Policies", Hospital Management, April, 1969; Co-authors H. A. Knappenberger and E.W. Moore
22. "A Study of the Variability of Surgical Estimates", Hospital Management, September, 1970; Co-authors H. A. Knappenberger and W.R. Shearon
23. "The Role of Industrial Engineering in the Development and Evaluation of Radiological Systems", Proceedings of the Computer Applications in Radiology Conference, 1970
24. "System Design and Evaluation", Proceedings of the Computer Assisted Food Systems Management Conference, 1971
25. "Resource Allocation and Comprehensive Health Care Planning", Technical Papers of the 22nd Annual Conference, American Institute of Industrial Engineers, 1971; Co-author H.A. Knappenberger
26. "Health Systems Research: Current Status and Future Goals", Proceedings of the Third Annual AIIE Hospital and Health Services Division National Conference, 1972; Co-author H.A. Knappenberger
27. "Current Status of Health Systems Educational Programs", Technical Papers of the 23rd Annual Conference, American Institute of Industrial Engineers, 1972; Co-author H.A. Knappenberger
28. "Narrowing the Gap Between Industrial Engineering and Health Applications", Biocharacterist, Vol. 2, No. 5; November-December, 1972
29. "Impact Assessment of Technological Change: An Application in Radiology", Proceedings of the 24th Annual Conference, American Institute of Industrial Engineers, 1973; Co-author W.L. Fairman
30. "Task Delegation to Physician Extenders - Some Comparisons" American Journal of Public Health, January, 1976; Co-author J.K. Glenn
31. "Strategies for Productivity with Physician Extenders", The Western Journal of Medicine, March, 1976; Co-author J.K. Glenn
32. "Health Care System Evaluation Framework with Applications", Proceedings of the 27th Annual Conference, American Institute of Industrial Engineers, May, 1976; Co-author W. L. Fairman

33. "Effectiveness Evaluation - Resource Allocation Process", Papers of the Operations Research Society of America/The Institute of Management Science National Meeting, November 1977; Co-authors W.L. Fairman and J. Nackel
34. "Issues for Research in Health Services - Research in Health Care Technology", Papers of the Operations Research Society of America/The Institute of Management Science National Meeting, November, 1977
35. "The Productivity of Hospital Management Engineering Manpower-Industrial Engineering Faculty Interest Approach", Proceedings of the Ninth Annual AIIE Health Services Division National Conference, February, 1978
36. "A Group Decision Process for Resource Allocation in the Health Setting", Management Science, Vol. 24, No. 12, September, 1978; Co-authors J.G. Nackel and W.L. Fairman
37. "A Component Approach to Health Systems Design", Journal of Medical Systems, Vol II-Issue 3, 1978; Co-authors M.C. Smith and W.L. Fairman
38. "A Quality of Care Evaluation Measure for Emergency Medical Service Systems", Journal of Medical Systems, Vol II-Issue 4, 1979; Co-authors W. Headrick and M.S. Leonard
39. "Evaluation of Information Technology", Proceedings of the Third World Conference on Medical Informatics (MEDINFO 80 Tokyo), North Holland Publishing, 1980
40. "Use of the AHIS Component Catalog in Hospital Information Systems Design", Proceedings of the 12th Annual AIIE Health Services Division National Conference, February, 1981; Co-author M.S. Leonard
41. "The Design of Hospital Information Systems Using the Automated Hospital Information System Catalog", Proceedings of the Fifth Annual Symposium on Computer Applications in Medical Care, November, 1981; Co-author M.S. Leonard
42. "Health Information System Transferability Evaluation", Computers and Biomedical Research, Vol. 14, pp. 559-569, December, 1981; Co-authors J.T. Dittmann and M.S. Leonard
43. "A Status Report on Automated Hospital Information Systems", Proceedings of the 15th Annual Hawaii International Conference on Systems Sciences, January, 1982; Co-authors M.S. Leonard, M. Smith, and W.B. Ashton
44. "Assessment of Health Information System Transferability", Proceedings of the 10th Annual Hospital Management System Society Annual Conference,

February, 1982; Co-authors J.T. Dittmann and M. S. Leonard

45. "Component Design Strategy Permits Selection of Most Suitable Hospital Information System", Industrial Engineering, Vol. 14, No. 2, pp. 55-64, February, 1982; Co-author M.S. Leonard
46. "An Off Line Design Procedure for the Work Station of Assembly Robots", Proceedings of the National Fall Conference, Institute of Industrial Engineers, November, 1982; Co-author C.A. Chang
47. "Simplify Robot Vision Systems with Feature Marks", Proceedings of the National Spring Conference, Institute of Industrial Engineers, May, 1983; Co-authors C.A. Chang, J.M. Pan, M.S. Leonard and O.W. Miller
48. "An Automated Risk Management Information System for Hospitals", Modern Healthcare, June, 1983; Co-authors T. Raz and G.P. Kraus
49. "A Strategy for the Design of Automated Information Systems", Proceedings of the Fourth World Congress on Medical Informatics (MEDINFO 83 Amsterdam), North Holland Publishing, 1983; Co-author M.S. Leonard
50. "Locating Parts with Feature Marks for Robot Vision Systems", Proceedings of the VIIth International Conference on Production Research, August, 1983; Co-authors C.A. Chang, J.M. Pan, M.S. Leonard and O.W. Miller
51. "A Quality Control Issue in Automated Manufacturing Systems", Proceedings of National Fall Conference, Institute of Industrial Engineers, November, 1983; Co-authors C.A. Chang, O.W. Miller and Y. Lee
52. "Use Computer Vision as a Proximity Sensing Method", Proceedings of National Spring Conference, Institute of Industrial Engineers, May, 1984; Co-authors C.A. Chang, J. Pan, S. Yeralan and T.Y. Tseng
53. "An Overview of Artificial Intelligence", Computer and Information Systems Newsletter, Vol. 18-3, Winter, 1984; Co-author C.A. Chang
54. "A Strategy for the Implementation of Automated Information Systems", Medical Informatics, Vol. 9, No. 4, 1984; Co-author M.S. Leonard
55. "An Off Line Design Procedure for the Work Station of Assembly Robots", Industrial Engineering, Tanghai University, Vol. 29, June, 1984; Co-author C.A. Chang
56. "Demonstration of a Statewide Productivity and Quality Enhancement Program", Proceedings of Annual International Industrial Engineering Conference, Institute of Industrial Engineers, May, 1985; Co-authors M.S.

Leonard, O.W. Miller and L.G. David

57. "A Grouping Algorithm for Qualitative Data with a Dichotomous Outcome Variable", IIE Transactions, Volume 17, Number 2, June, 1985; Co-author T. Raz
58. "A Time Buffer Method for Multi-Arm Operational Planning" Material Flow, Volume 3, 1986, Co-authors C.A. Chang and S. Yeralan
59. "Artificial Intelligence: An Overview of Research and Applications" Industrial Management, Volume 28, Number 6, 1986, Co-authors C.A. Chang and M.S. Leonard
60. "Part Positioning with Feature Marks for Computer Vision Systems", IIE Transactions, Volume 19, Number 2, 1987, Co-authors C.A. Chang and J.M. Pan
61. "A Sampling Approach for Computer Vision Inspection in Automated Production Systems", Proceedings of the IXth International Conference on Production Research, August, 1987; Co-authors C.A. Chang, Y. Lee and M.S. Leonard
62. "Automating the Design of Work Systems", Proceedings of the National Fall Conference, Institute of Industrial Engineers, November, 1987, Co-authors K. Kengskool and M.S. Leonard
63. "An Electronic Template for Interactive Workplace Design", Proceedings of the National Spring Conference, Institute of Industrial Engineers, May, 1989; Co-author K.Kengskool
64. "Evaluating Organizational Design to Assure Technology Transfer: The Case of the Community Clinical Oncology Program," Journal of the National Cancer Institute, November, 1989; Co-authors A. Kaluzny, T. Ricketts, R. Warnecke, L. Ford, J. Morrissey, D. Gillings and E. Sondik
65. "Applications of Virtual Reality Technology in Pathology", Medicine Meets Virtual Reality, IOS Press 1997; Co-authors G. Grimes, S.McClellan, G. Vaughn, D.Conner, E. Kujawski, J. McDonald, T. Winokur and W. Fleming
66. "Remote Microscopy for Hi Res Real-Time Interactive Pathology", Advanced Imaging, July, 1997; co-authors, G. Grimes, S. McClellan, G. Vaughn, D. Conner, J. McDonald, T. Winokur, G. Siegal, and W. Fleming.
67. "An Initial Trial of a Prototype Telepathology System Featuring Static Imaging with Discrete Control of the Remote Microscope", American Journal of Clinical Pathology, July, 1998; Co-authors, T.Winokur, S. McClellan, G. Siegal, V. Reddy, C.Listinsky, D. Conner, G. Grimes, G. Vaughn, and J. McDonald.

68. "A Research Applicable Small Animal Model of Diffuse Axonal Injury", Abstract in Journal of Neurotrauma, November, 1998; Co-authors, J. Meythaler, E. Eleftheriou, A. Eberhardt, P. Coan, P. Berger, P. Fine and J. Peduzzi.
69. "Development of Assessment Instruments", Proceedings of American Society for Engineering Education Annual Conference, 1999; Co-author, D.A. Conner.
70. "Design Issues for Products for Special Children", Proceedings of the Fourth World Congress on Integrated Design and Process Technology, 1999; Co-author, R.L. Goldman.
71. "Issues and Techniques in Network-Based Distributed Healthcare: Overview", Proceedings of the Fourth World Congress on Integrated Design and Process Technology, 1999; Co-authors, D.A. Conner, G.J. Grimes, S.A. McClellan, M.M. Tanik, G.L. Vaughn and T.S. Winokur.
72. "Issues of Scalability of Measurement Devices, Communications Infrastructure and Data Processing Systems for Network-Based Distributed Healthcare", Proceedings of the Fourth World Congress on Integrated Design and Process Technology, 1999; Co-authors, G.L. Vaughn, D.G. Green, D.A. Conner, G.J. Grimes, S.A. McClellan, M.M. Tanik, and T.S. Winokur.
73. "Issues and Techniques in Network-Based Distributed Healthcare: Software", Proceedings of the Fourth World Congress on Integrated Design and Process Technology 1999; Co-authors, M.M. Tanik, Y. Tang, D.A. Conner, G.J. Grimes, S.A. McClellan and G.L. Vaughn.
74. "Issues and Techniques in Network-Based Distributed Healthcare: Overview", Journal of Systems Integration, Vol. 10, No.1, 2000; Co-authors, D.A. Conner, G.J. Grimes, S.A. McClellan, M.M. Tanik, G.L. Vaughn and T.S. Winokur.
75. "A Prospective Trial of Telepathology for Intraoperative Consultation (Frozen Sections)", Human Pathology, 31, 2000; Co-authors, D.A. Conner, P. Gore, G.J. Grimes, A.J. Lazenby, C.M. Listinsky, S.A. McClellan, J.M. McDonald, D. Redden, V. Reddy, G.P. Siegal, G.L. Vaughn and T.S. Winokur

TEXTBOOKS AND MONOGRAPHS

1. A Sterile Disposable Nurser System, The Medical Care Research Center Monograph No. 2, 1962, St. Louis, Missouri; Co-authors D. Littauer and A.F. Wessen
2. Progressive Patient Care: An Anthology, Edited by L.E. Weeks and J.R. Griffith, 1964, Chapter 16, University of Michigan Press

3. Improvement Ideas for Hospitals, Addison C. Bennett, 1969, Case Material, Lippicott
4. Planned Change in Hospital, Edited by R.M. Coe, 1970, Chapter 3, Praeger Publications; Co-authors D. Littauer and A.F. Wessen
5. Health Information Systems Evaluation, Edited by R.C. Koza, 1974, Chapter 5, Colorado Associated University Press
6. Operations Research in Health Care: A Critical Analysis, Edited by L.J. Shuman, R.D. Speas and J.P. Young, 1975, Chapter 7, The John Hopkins Press
7. Health Care Technology Evaluation, Editor, 1979, Spring-Verlag
8. Demonstration of the Unit Administration Concept, Hospital Research & Educational Trust, AHA Monograph, 1980; Co-authors C.H. Frenzel, K. J. Schoonhagen, M.L. O'Rorke and M.O. Braaten
9. Robotics and Industrial Engineering: Selected Readings, Edited by E.L. Fisher, 1983, Industrial Engineering and Management Press. Chapters on "An Off Line Design Procedure for the Work Station of Assembly Robots", Co-author C.A. Chang, and "Simplify Robot Vision Systems with Feature Marks", Co-authors C.A. Chang, J. Pan, M.S. Leonard and O.W. Miller
10. Team Effort Advances Missouri - Improving Productivity and Quality Through Teamwork, Edited by P.J. Schmidt, 1985, State of Missouri Department of Economic Development
11. Team Effort Advances Missouri - Improving Productivity and Quality Through Teamwork - Workbook (Parts 1 and 2), Edited by J.M. Amos, 1985, State of Missouri Department of Economic Development
12. Robotics and Industrial Engineering: Selected Readings, Volume II, Edited by E.L. Fisher and O.Z. Maimon, 1986, Industrial Engineering and Management Press, Chapter on "Use Computer Vision as a Proximity Sensing Method", Co-authors C.A. Chang, J.M. Pan, S. Yeralan and T.Y. Tseng
13. Productivity Management Frontiers-I, Edited by D.J. Sumanth, 1987, Elsevier Science Publishers, B.V., Chapter on "Productivity and Quality Enhancement-An Experiment", Co-authors O.W. Miller, M.S. Leonard and L.G. David
14. Trends in Ergonomics/Human Factors IV, Edited by S.S. Asfour, 1987, Elsevier Science Publishers, B.V., Chapter on "An Expert System for Human Operator's Workplace Design", Co-authors K. Kengskool and M.S. Leonard

15. Expert Systems, Edited by N.A. Botten and T. Raz, 1988, Industrial Engineering and Management Press, Chapter on "Automating the Design of Work Systems", Co-authors K. Kengskool and M.S. Leonard
16. Recent Developments in Production Research, Edited by A. Mital, 1988, Elsevier Science Publishers, B.V., Chapter on "A Sampling Approach for Computer Vision Inspection in Automatic Production Systems", Co-authors C.A. Chang, Y.Lee and M.S. Leonard
17. Health Systems - Reflection, Reality and Revelation, Journal of the Society for Health Systems, Vol. 3, No. 4, 1992, Co-Editor, H.A. Knappenberger.

TECHNICAL PRESENTATIONS

1. American Materials Handling Society, St. Louis Chapter, February , 1956
2. Boeing Airplane Company, Seminar Series, Summer, 1957
3. American Institute of Industrial Engineers, Seattle Chapter, September, 1957
4. American Society for Engineering Education, Missouri-Arkansas Regional Meeting, June, 1958
5. American Institute of Industrial Engineers, St. Louis Chapter, December, 1958
6. Ordinance Management Engineering Training Agency, Top Management Seminar, Rock Island, Illinois, December 11, 1958
7. American Institute of Industrial Engineers, Work Measurement Clinic, St. Louis Chapter, March 20, 1959
8. McDonnell Aircraft Corporation, Technical Seminars, Summer, 1959
9. Missouri Society of Professional Engineers, St. Louis Chapter, November 24, 1959
10. Steel Foundries Society of America, St. Louis Chapter, December 4, 1959
11. American Society for Engineering Education, 12th Annual Relations with Industry Conference, January 27, 1960
12. American Institute of Industrial Engineers, St. Louis Chapter, February 9, 1960
13. Institute of Internal Auditors, St. Louis Chapter, April, 1960
14. Work Design Intensive Course, Washington University in St. Louis, June, 1960
15. Missouri Association of Medical Records Librarians, Annual Meeting, October 12, 1961
16. National Executive Housekeepers' Association, February 1, 1962
17. American Institute of Industrial Engineers, Central Illinois Chapter, February 9, 1962
18. American Institute of Industrial Engineers, Northeastern Wisconsin Chapter, February 28, 1962
19. Evansville College, Professional Nurse Traineeship Program, March 15, 1962
20. American Institute of Industrial Engineers, Evansville Chapter, March 15, 1962
21. American Institute of Industrial Engineers, Central Indiana Chapter, April 17, 1962
22. American Association of Medical Records Librarians, Annual Meeting, October

- 4, 1962
23. American Institute of Industrial Engineers, Symposium on Industrial Management, Twin City Chapter, December 8, 1962
 24. Ordinance Management Engineering Training Agency, Top Management Seminar, Rock Island, Illinois, December 11, 1962
 25. American Hospital Association, Central Service Management Institute, January 9, 1963
 26. American Institute of Industrial Engineers, Nashville Chapter, April 1, 1963
 27. Veterans Administration Hospitals and Clinics, St. Louis, Medical Area Conference for Chiefs of the Pharmacy Service, April 25, 1963
 28. Western Canada Hospital Institute, May 20, 1963
 29. American Institute of Industrial Engineers, International Conference, September 23, 1963
 30. American Institute of Industrial Engineers, Omaha Chapter, October 19, 1963
 31. American Materials Handling Society, St. Louis Chapter, December 12, 1963
 32. Society for Advancement of Management, St. Louis Chapter, March 19, 1964
 33. American Institute of Industrial Engineers, Eastern North Carolina Chapter, September 9, 1964
 34. American Institute of Industrial Engineers, Fourth Annual Southeastern Area Student Conference, February 12, 1965
 35. Duke University, Department of Hospital Administration, May 18 and 25, 1965
 36. Sixth Biennial Middle Atlantic States Apprenticeship and Training Conference, July 23, 1965
 37. Sixty-first Annual Meeting, Indiana State Nurses' Association, October 15, 1965
 38. Stoneburner Symposium, Medical College of Virginia, April 1, 1966
 39. Duke University, Department of Hospital Administration, May 10, 12, and 17, 1966
 40. 1966 Industrial Engineering Frontiers Conference, Purdue University, October 6, 1966
 41. Second Educational Assembly on Hospital Administration, American College of Hospital Administrators, November 3, 1966
 42. Eighth Annual Hospital Executive Development Institute, North Carolina and South Carolina Hospital Associations, December 6, 1966
 43. Duke University, Department of Hospital Administration, April 25 and May 9, 1967
 44. Duke University Medical Center Dietetic Conference, June 28, 1967
 45. Systems and Procedures Association, November 28, 1967
 46. 19th Annual Conference, American Institute of Industrial Engineers, May 19, 1968
 47. American Institute of Industrial Engineers, Regional Meeting of Academic Department Chairmen, October 4, 1968
 48. University of Missouri Health Services Management, January 18, 1969
 49. 20th Annual Conference, American Institute of Industrial Engineers May 16, 1969
 50. 77th Annual Meeting, American Society for Engineering Education, June 24, 1969

51. Computer Oriented Food Systems Management Conference, July 21, 1969
52. The Institute of Management Science, Missouri-Kansas Chapter, September 10, 1969
53. Unit Management Concepts Conference, October 9, 1969
54. Cooperative Services in Health Care Delivery, May 23, 1970
55. Renal Disease Program Planning Workshop, September 15, 1970
56. Computer Applications in Radiology, September 23, 1970
57. Managing the Patient Care Unit, October 24, 1970
58. 22nd Annual Conference, American Institute of Industrial Engineers, May 17, 1971
59. 23rd Annual Conference, American Institute of Industrial Engineers, June 1, 1972
60. Operations Research Society of America/The Institute of Management Science/American Institute of Industrial Engineers Joint Meeting, November, 1972
61. 4th Annual Health Care Systems Conference, American Institute of Industrial Engineers, Hospital and Health Services Division, February, 1973
62. National Center for Health Services Research and Development, Evaluation Seminar, April, 1973
63. 24th Annual Conference, American Institute of Industrial Engineers, May 13, 1973
64. Health Information Systems Evaluation Conference, Health Care Management Systems, August 15-17, 1973
65. Center Forum, National Cooperative Services Center for Hospital Management Engineering, June 3-4, 1974
66. 27th Annual Conference, American Institute of Industrial Engineers, May 20, 1976
67. Operations Research Society of America/The Institute of Management Science National Meeting, November 7-9, 1977
68. 9th Annual Health Care Systems Conference, American Institute of Industrial Engineers, Health Services Division, February 13-15, 1978
69. Council of Industrial Engineering Academic Department Heads Annual Meeting, May 22-23, 1978
70. Operations Research Society of America/The Institute of Management Science National Meeting, November 13, 1978
71. 11th Annual Health Care Systems Conference, American Institute of Industrial Engineering, Health Services Division, February 23-25, 1981
72. Operations Research Society of America/The Institute of Management Science National Meeting, May 5-7, 1980
73. 12th Annual Health Care Systems Conference, American Institute of Industrial Engineers, Health Services Division, February 23-25, 1981
74. Operations Research Society of America/The Institute of Management Science National Meeting, October 12-14, 1981
75. 10th Annual Systems Conference of the Hospital Management System Society, February 10-12, 1982
76. Operations Research Society of America/The Institute of Management Science

- National Meeting, October 25-27, 1982
77. Institute of Industrial Engineers, Kansas City Chapter, November 9, 1982
 78. 14th Annual Health Care Systems Conference, Institute of Industrial Engineers, Health Services Division, February 7-9, 1983
 79. Operations Research Society of America/The Institute of Management Science National Meeting, April 25-27, 1983
 80. The Fourth World Congress on Medical Informatics, MEDINFO 83 Amsterdam, August 21-26, 1983
 81. Exchange Club of Birmingham, April 25, 1985
 82. Annual International Industrial Engineering Conference, Institute of Industrial Engineers, May 19-23, 1985
 83. 17th Annual Health Care Systems Conference, Institute of Industrial Engineers, Health Services Division, February 10-12, 1986
 84. First Thursday - UAB Honors Program Lecture Series, March 6, 1986
 85. Institute of Industrial Engineers, Birmingham Chapter, January 26, 1987
 86. International Conference on Productivity Research, February 4-6, 1987
 87. American Society for Engineering Education Annual Conference, June 23, 1987
 88. American Society for Quality Control, Birmingham Chapter, June 25, 1988
 89. Annual International Industrial Engineering Conference, May 18, 1992
 90. Annual International Industrial Engineering Conference, May 24, 1993
 91. American Society for Engineering Education Annual Conference, June 21, 1999
 92. Fifth World Congress on Integrated Design and Process Technology, June 2000

CONSULTING

1. G. Nadler & Company, St. Louis, MO
2. Artcraft Venetian Blind Manufacturing Company, St. Louis, MO
3. Goffre, Carbone Company, Buenos Aires, Argentina
4. Boeing Airplane Company, Seattle, WA
5. Dr. LeGear Medicine Company, St. Louis, MO
6. Champagne Industries, St. Louis, MO
7. McDonnell Aircraft Corporation, St. Louis, MO
8. Banner Hardware Company, St. Louis, MO
9. Beltex Corporation, St. Louis, MO
10. The Jewish Hospital of St. Louis, St. Louis, MO
11. Mead Johnson and Company, Evansville, IN
12. Central States Paper & Bag Company, St. Louis, MO
13. F.M. Stamper Company, St. Louis, MO
14. Duke University Medical Center, Durham, NC
15. Rex Hospital, Raleigh, NC
16. Memorial Hospital of Wake County, Raleigh, NC
17. United States Public Health Service, Washington, DC
18. Research Triangle Institute, Raleigh, NC
19. Veterans Administration Hospital, Durham, NC

20. American College of Radiology, Chicago, IL
21. National Center for Health Services Research, Hyattsville, MD
22. Association of American Medical Colleges, Washington, DC
23. Medical College of Virginia, Virginia Commonwealth University, Richmond, VA
24. Tufts University Medical School, Tufts University, Boston, MA
25. State of Nebraska, Bureau of Comprehensive Health Planning, Omaha, NE
26. Veterans Administration, Washington, D.C.
27. University of South Florida Medical School, Tampa, FL
28. National Heart, Lung and Blood Institute, N.I.H., Bethesda, MD
29. Office for Emergency Medical Services, Rockville, MD
30. McDonnell Douglas Corporation, St. Louis, MO
31. CDP Associates, Rockville, MD
32. National Cancer Institute, N.I.H., Bethesda, MD
33. National Library of Medicine, N.I.H., Bethesda, MD
34. Centers for Disease Control, Atlanta, GA
35. Professional Publications Inc., Belmont, CA

UNIVERSITY ACTIVITIES

WASHINGTON UNIVERSITY IN ST. LOUIS

Active participation in all Industrial Engineering Departmental projects
Laboratory coordinator
University College Program Director
Member of Graduate Faculty
Instructor, Annual Motion and Time Study Intensive Course, 1955, 1957 and 1960
Director, Industrial Engineering Intensive Courses, 1958-60
Member, Sever Committee – Graduate Academic Policy Committee, 1959-64
Member, Student Recruiting Program – School of Engineering, 1959-61
Member, High School Visitation Program, 1959-61
Member, Advisory Committee of Engineering Faculty Assembly, 1959-61
Project Director, Medical Care Research Center, 1960-64
Staff Member, Annual Work Design Intensive Course, 1961-62
Research Associate, Social Science Institute, 1961-64
Chairman, Engineering Administration Master's Program Committee, 1962-64
Faculty Advisor, Student Chapter – AIIE
Faculty Advisor, Student Chapter – Alpha Pi Mu
Developed facility layouts for Computer Center and for new Engineering
Laboratories Building
Industrial Management Society, Methods Improvement Competition and Displays,
1953-63
Chairman, American Materials Handling Society and American Institute of Industrial
Engineers Equipment Committees
Chairman, Student Relations Committee – St. Louis Chapter, AIIE, 1956-57
Graduate Entrance Oral Examination Committee, Industrial Engineering
Department, 1956-67
Graduate Oral Examination Committees, 1956-64

Graduate Advisor, Industrial Engineering Department 1958-64
Acting Chairman, Human & Organization Factors Areas, 1963-64

NORTH CAROLINA STATE UNIVERSITY

Member, School of Engineering Research Committee, 1964-66
Member, Graduate Faculty, 1964-68
Member, Committee on Engineering in Medicine and Biology, 1964-68
Representative from I.E. Department to D.H. Hill Library, 1964-68
Graduate Administrator, Department of Industrial Engineering, 1964-68
Member, School of Engineering Graduate Studies Committee, 1966-68

UNIVERSITY OF MISSOURI-COLUMBIA

Member, College Executive Committee, 1968-84
Member, College Facilities Committee, 1968
Member, College Ad Hoc Facilities Committee for E.E., I.E. and MoRMP Programs, 1968-69
Member, Bioengineering Program Committee, 1968
Member, Campus Committee on Planning the Future Architectural Environment of the Health Systems, 1968
Co-Chairman, MoRMP Seminar on Transmission of Health Information, 1969
Chairman, Radiology - Engineering Interface Executive Committee, 1969-71
Member, University Club, Site and Building Committee, 1969-71
Member, College Ad Hoc Teaching at Distance Committee, 1969-71
Member, Medicine - Engineering Interface Committee, 1969-71
Member, Campus Ad Hoc Committee to Consider Doctoral Program in Industrial Engineering, 1970
Member, Campus Logistics Center Planning Committee, 1970
Member, Campus Health Services Planning Grant Committee, 1970
Member, College Ad Hoc Student Scheduling Committee, 1970
Member, School of Medicine Long Range Planning Committee, 1971-72
Chairman, College Technology Transfer Committee, 1972-73
Member, College Human Subject Review Committee, 1972-84
Member, School of Medicine Coordinating Committee and Long Range Planning Faculty, 1972-74
Member, Campus Academic Planning Council, 1973-75
Member, Campus Affirmative Action Committee, 1973-74
Member, Campus Administrative Evaluation Committee, 1974-75
Member, College Technology Transfer Committee, 1973-80
Chairman, Campus Community Planning Program Committee, 1974-75
Member, Campus Faculty of Institute of Public Administration, 1975-76
Member, University of Missouri System Student Information System Advisory Council, 1976
Member, Campus Health Services Management Review and Search Committee, 1978
Chairman, University Hospital Indirect Cost Study Group, 1979-80
Member, School of Nursing Biomedical Research Development Grant Advisory

Committee, 1980-83

Member, Regional Science Committee, 1980-84

Member, Campus Academic Planning Group, 1981-82

Member, Missouri Research and Educational Mirror Fusion Facility Advisory
Committee, 1982-84

Member, Campus Research Assistance Act Review Committee, 1982-84

Member, Advisory Committee for Continuing Engineering Education, 1983-84

UNIVERSITY OF ALABAMA AT BIRMINGHAM

Member, Academic Programs Council, 1995-96

Member, Dean's Council, 1984-96

Member, Campus Planning Committee, 1984-97

Member, ROTC Advisory Committee, 1984-88

Faculty Advisor, Engineering Student Societies Executive Council, 1984-96

Member, Executive Committee, Friends of Sterne Library, 1985-90

Member, Athletic Advisory Committee, 1985-92

Member, UA-UAB Materials Engineering Coordinating Committee, 1985-96

Member, Cancer Control Advisory Committee, 1986-87

Member, Faculty Grant Selection Committee, Sterne Library, 1986-88

Member, Department of Health Services Administration Faculty Search Committee,
1986-88

Member, Advisory Committee, Center for Nuclear Imaging Research, 1986-96

Member, Advisory Committee, International Science and Engineering Fair, 1987-94

Member, Co-op Awards Committee, 1987 and 1990

Chairman, Management Committee, Center for Telecommunications Education and
Research, 1987-

Member, Search Committee for Director, Injury Prevention Research Center,
1987-88

Chairman, Search Committee for Director of Facilities Management, 1987-88

Member, Relationship with Local Business Task Force, UAB President's Council,
1987-89

Member, Southern Research Institute Coordinating Committee, 1987-89

Member, Center Management Committee, Injury Control Research Center, 1988-

Member, Presidential Minority Scholarship Committee, 1989-93

Member, UAB Space Grant Consortium Advisory Committee, 1989-96

Member, UAB Fringe Benefits Committee, 1991-99

Member, Industrial Distribution Program Management Committee, 1991

Member, Search Committee for Vice President for Administration, 1992-93

Member, University of Alabama System International Education Committee, 1993-97

Chairman, UAB Medical Center Strategic Planning Committee on Faculty
Development and Mentoring, 1993-94

Member, Search Committee for Chair of the Department of Rehabilitation Medicine,
1994-95

Member, UAB Cost Accounting Standards Oversight Committee, 1995-96

Co-Chairman, Capital Task Force, Institutional Economic Strategy Cluster, UAB
Strategic Planning, 1995

Member, Outcome Research Work Group, 1996-97
Chairman, UAB Provost Search Committee, 1996-98
Member, IAIMS Administrative Applications Task Force, 1997-
Member, School of Business/School of Engineering Industrial Distribution Program
Committee, 1998-
Member, Center for Outcomes and Effectiveness Research and Education Advisory
Committee, 1998-
Chairman, School of Engineering ABET Planning Group, 1997-01
Chairman, BE&K Scholarship Review Committee, 1997-
Member, Alabama Industrial Professor of Environmental Engineering Steering
Committee, 1998-02
Member, Redshirt Engineering Committee and Coordinator Redshirt Engineering I
Course, 1998
Chairman, School of Engineering Curricula Committee, 1998-
Member, Business-Engineering Interface Committee, 1999-00
Chairman, School of Engineering/School of Business Task Force, 2000-01
Chairman, School of Engineering Intelligent Transportation System Committee,
2000-01
Chairman, School of Engineering Continuous Quality Improvement Committee,
2001-
Chairman, School of Engineering Academic Rank and Tenure Review Committee,
2002-
Member, Search Committee for Chair of the Department of Biomedical Engineering,
2002-

TEACHING AND RESEARCH INTERESTS

Areas

Administrative Organization and System Design for Productivity and Quality
Enhancement in Manufacturing and Service Industries
Design of Man-Machine Work Systems
Measurement of Human Performance
Human Factors Engineering

Research

Examples of Research Directed at Washington University in St. Louis:

Investigation of the Effects of a Number of Information Presentation Systems on a
Psychomotor Task, M.S. Thesis, H. Eisenberg, June, 1960

Establishing Criteria for Planning Electronic Manufacture, M.S. Thesis, L.W. Hart,
Jr., June, 1964

Human Effort Expenditure During Static Performance, M.S. Thesis, D.R. Rippy,

January, 1965

An Investigation of Training for the Case of a Multiple Response Job, M.S. Thesis, W.C. Moore, June, 1965

The Influence of the Supervisor's Attitude on Subordinate Training and Performance in the Situation of Procedural Change, M.S. Thesis, L.E. Freund, June, 1965

Examples of Research Directed at North Carolina State University:

Introduction of Physical Variation in Man-Machine Tasks, M.S. Thesis, L.L. D'Souza, June, 1966

An Investigation of Operating Room Utilization and Performance Through the Use of Simulation, M.S. Thesis, E.W. Moore, Jr., June, 1968

A Study of Hospital Operating Suite Scheduling Procedures, M.S. Thesis, W.T. Shearon, Jr., June, 1969

Examples of Research Directed at University of Missouri-Columbia:

Productivity in Ambulatory Care Systems, Ph.D. Dissertation, John Glenn, December, 1973

An Evaluation of Emergency Medical Services Based on Patient Outcome, Ph.D. Dissertation, Justin Myrick, December, 1974

Patient Care Planning and Scheduling in a Rehabilitation Environment, M.S. Thesis, Brian E. Reynolds, May, 1975

A Group Decision Process for Resource Allocation in the Health Setting, Ph.D. Dissertation, John Nackel, May, 1977; Co-Chairman, W.L. Fairman

A Component Approach to Health Care Systems Design, Ph.D. Dissertation, Michael C. Smith, December, 1977

A Quality of Care Evaluation Measure for Emergency Medical Service Systems, Ph.D. Dissertation, R. Wayne Headrick, April, 1978; Co-Chairman, M.S. Leonard

Production/Physical Distribution Scheduling in a Two Stage Distribution Network, Ph.D. Dissertation, Paraskeva D. Vekris, May, 1978; Co-Chairman, S.C. Moore

Evaluating Staffing of Non-Stationary Hospital Systems, Ph.D. Dissertation, Thomas H. Bowlin, May, 1978; Co-Chairman, S.C. Moore

A Transferability Measurement Model for Hospital Information Systems, Ph.D.

Dissertation, Jay T. Dittmann, August, 1980; Co-Chairman M.S. Leonard

A Hospital Productivity Output Measurement Systems, Ph.D. Dissertation, John A. Coventry, August, 1981

A Methodology for Modeling Adverse Patient Incidents in Hospitals, Ph.D. Dissertation, Tzvi Raz, December, 1982

An Expert System for Productivity Enhancement, Ph.D. Dissertation, Khokiat Kengskool, May, 1986; Co-Chairman M.S. Leonard

A Quality Control Issue in Automated Manufacturing Systems, Ph.D. Dissertation, Young Lee, May, 1987; Co-Chairman C.A. Chang

TECHNICAL MOTION PICTURES

"Mechanical Engineering Laboratory Experiments", Duke University, 1949

"Methods Comparison", Michigan State University, 1953

"What is Pace Comparison?", Washington University, 1953

"Stamping Tags", Washington University, 1953

"Methods Improvement in Inspection Operation", Washington University, 1954

"Aflame with Improvement", Washington University, 1955

SECURITY CLEARANCE

Secret, Defense Supply Agency, DCASR-St. Louis, Missouri, 1968-1984

Secret, Olmstead Air Force Base, Pennsylvania, 1964-1968

Secret, Headquarters, Fifth U.S. Army, 1962-1964

Secret, Consultant to Office of Naval Research, Chicago, 1957-59