

## CURRICULUM VITAE

October 2009

NAME: Jerald Hage

PRESENT RANK: Director, the Center for Innovation

FORMAL EDUCATION: B.B.A. (Business Administration), 1955  
University of Wisconsin  
Madison, Wisconsin

PH.D. (Sociology), 1963  
Columbia University  
New York, New York

DOCTORAL DISSERTATION: Organizational Response to Innovation, August, 1963,  
Etzioni, Hyman, and Merton

### RESEARCH AND EDUCATIONAL OBJECTIVES:

My research and educational objectives can be easily divided into four distinctive areas: (1) construction of new theories and paradigms in socio-economics; (2) research studies to test these and to aid in their development; (3) creation of new evaluation tools and techniques for policy studies of science and technology; and (4) education. For fifty years, I have been working to develop a new paradigm of social change. My first effort in this area has been finished and focuses on new theories for the science of science and innovation policy and is presently being reviewed for publication. The title is Restoring the Innovative Edge: Protecting American Employment and it outlines six steps to stimulate innovation in the United States. Although this book focuses on policy, the theory that undergirds it is a new paradigm of socio-economics based on the evolution of knowledge. Presently, I have started to write the book to explicate this theory and indicate how it can be used to synthesize a number of recent new concepts, update classical sociological theory, and provide an evolutionary theory for economics. The evolutionary theory predicts both evolution via institutional changes and failures in evolution because path dependency prevents co-evolution.

Presently I am conducting two research studies funded by the National Science Foundation. One is on the profiles of research teams and whether they fill the gaps in the idea innovation network. Another is on measuring the social and economic benefits of medical research. Both contribute to the development of new research tools and techniques in evaluation and the development of the science of science and innovation policy. The Center of Innovation that I direct continues to work closely with STAR, the applied research wing of the National Oceanographic and Atmospheric Administration on problems in science and technology.

After a long hiatus from teaching, I became interested in teaching two kinds of courses, one on the evaluation techniques for science and innovation policy and the other on the new paradigm of social change that I am presently working on. In addition, I have been accepting visiting professorships and a Fulbright to teach in other countries.

**HONORS:**

- 2009 NSF research study selected represent the American Sociological Association and to present to Congress in poster show.
- 2009 Fulbright Award to visit Chile
- 2007 Best Conference Paper (with Mote) at Georgia Tech Evaluation Conference
- 2004 Visiting Professor, University of Tilburg, Tilburg, the Netherlands
- 2001 Visiting Professor, Eindhoven Technological University, Eindhoven, the Netherlands
- 2000 Institute for Advanced Studies, Vienna, Austria
- 1998 - 99 Fellow, Netherlands Institute for Advanced Studies
- 1998 Research Associate, La Maison de Science de l'Homme, Paris, France
- 1998 Stuart A. Rice award for life Time Achievement, D.C. Sociological Society
- 1997 Fellow, Japan Society for the Promotion of Science
- 1997 Institute for Advanced Studies, Vienna, Austria
- 1997 - 98 President, the Society for Advancement of Socio-Economics
- 1996 Rockefeller Grant for Residence at Bellagio, Italy.
- 1996 External Review Panel of the Sociology Department, Hunter University, New York, N.Y.
- 1995 Visiting Professor, Bocconi University, Milan, Italy
- 1994 Ida Beam Distinguished Visiting Professorship University of Iowa
- 1994 Centennial Chair, Visiting Research Professorship, London School of Economics, London, England
- 1992 Chair, External Review Panel of the Sociology Department, Emory University, Atlanta, GA.
- 1991 State Intervention in Medical Care was awarded prize for best book in Comparative Public Policy by the International Political Science Association.
- 1989 - 90 Invited by the Chinese Academy of Social Sciences (declined)
- 1986 - 87 Distinguished Scholar-Teacher, University of Maryland
- 1984 & 92 Appointed Distinguished Professor, Institute for Advanced Studies, Indiana University (The only person to have received this award twice.)
- 1984 - 85 Awarded a fellowship the Netherlands Institute for Advanced Studies (declined)
- 1983 Elected to the Sociological Research Association, an honorary society with limited membership
- 1982 Distinguished Professor Lecture Series at the Consortium of Georgia Universities
- 1981 Johnson Wax Visiting Professor, University of Surrey, Surrey, England
- 1978 Invited by the Polish Academy of Sciences (declined)
- 1976 Visiting Professor, Technion, Haifa, Israel
- 1975-76 Visiting Professor Ecole des Mines, Paris, France
- 1968 (winter and spring) Visiting Senior Lecturer, Aston University, Birmingham, England
- 1963 - 64 Post Doctoral Fellow, N.I.M.H., University of Wisconsin

**NATIONAL AND INTERNATIONAL PANELS AND COMMITTEES:**

- 1999 - 2002 Oversight Board for a European funded study of innovation in the Netherlands, Austria, Finland and Germany
- 1997 - 1999 Committee to Select the Most Distinguished Career in Sociology for the American Sociological Association
- 1995-1996 Program Committee, Society for the Advancement of Socio-Economics
- 1992 - 1993 Adviser, Commissariat du Plan, France on design of educational school system
- 1991 Panel for President's Commission on the Skilling of the Workforce
- 1990 - 1992 Council, Society for the Advancement of Socio-Economics
- 1990 - 1992 Program Committee, Society for the Advancement of Socio-Economics

1990 - 1991 Selection Panel for Western European National Resource Grants, Department of Education

1989 - 1992 Oversight Panel, National Cancer Institute for an evaluation study of the COOPS program

1989 - 1990 Review Panel, National Center for Evaluation of Health Care Technology

1989 - 1993 Advisory Board, Center for Philanthropy, Dissertation Review board, Indiana University

1986 - 1988 Chair, Ad Hoc Committee for the selection of Nominations for Prestigious Awards, A.S.A.(appointed)

1986 Member, Review Panel for President's Young Scientists Awards, National Science Foundation (appointed)

1983 - 1984 Chair of COFRAT Committee of American Sociological Association (appointed)

1982 - 1984 Member Advisory Board for NSF, The Industrial Science and Technological Innovation Advisory Committee (appointed)

1982 - 1984 Committee on Freedom of Research and Teaching, (COFRAT), American Sociological Association (appointed)

1981 - 1982 Candice Rogers Award Committee, Eastern Sociological Association (appointed)

1981 - 1982 Chair, section on organizations and occupations, American Sociological Association (elected)

1981 - 1984 Secretary, section on theory, American Sociological Association (elected)

1976 - 1979 Co-Chairman Macro Social Change Network, Social Science History Association (appointed)

1976 - 1980 Council. Section on Theory, American Sociological Association (elected)

1975 - 1977 Council. Section on Organizations and Occupations, American Sociological Association (elected)

1974 - 1975 Selection Committee for Western European Fellowships, Social Science Research Council (appointed)

1973 - 1974 Screening Committee for Western European Fellowship, Social Science Research Council (appointed)

### ***RESEARCH PROJECTS AND TRAINING PROGRAMS:***

#### **Awarded Proposals**

2009 – 2010 National Science Foundation, program in the science of science and innovation policy to measure technical progress in real time in medical research.

2007 - 2010 National Science Foundation, program in the science of science and innovation policy to help build the theory about the science of science and innovation policy

2004 - 2010 Annual contract grants from the STAR division of the National Oceanographic and Atmospheric Agency to study the processes of innovation and evaluate the value of the new innovative products that are developed.

2002 - 2004 Two contract grants from the Department of Energy, office of strategic planning, to hold two international and inter-disciplinary conferences and to publish a book on the frontiers of research in innovation

2004 - 2010 Annual contract grants from Sandia National Laboratories to study the processes of innovation, evaluate organizational change, and develop instruments and frameworks for evaluating innovation

1997 - 2000 Research Grant National Science Foundation, program in the history of science, to study the organization of bio-medical research, (joint with J. Rogers Hollingsworth)

1996 Graduate School Research Award

1993 - 1996 Research grant from the equivalent to the National Institutes of Health in Sweden to do a study of Nobel Prize winners in medicine and physiology (joint with Ragner Bjok and J. Rogers Hollingsworth)

1992 - 1993 Contract Grant from the Commissariat du Plan, France, to do special data analysis on investments in education in Britain, France, and Germany (joint with Maurice Garnier)

1992 - 1993 Contract Grant from the Department of Education Vocational Education to do a review of the literature on vocational education in the U.S., Britain, France, and Germany (joint with Maurice Garnier)

1992 - 1993 Contract grant from the Ministry of Education, France to do a comparative study of policy shifts in education in Britain, France, and Germany and their impact on economic growth in the post-Second World War (joint with Maurice Garnier)

1990 - 1991 American Sociological Association for a formal theory construction conference at the University of Maryland.

1989 - 1990 Graduate School Research Award

1988 - 1990 Co-Investigator, Role of the State in Coupling Education to Economic Growth in Britain, France, Germany and Italy (with Garnier) National Science Foundation (sociology)

1988 - 1989 College of Behavioral and Social Sciences Research Award

1987 - 1988 Co-Investigator of the project on unblocking of Chilean society, Chilean National Science Foundation (with Wormald, Estevez, and Falabella)

1986 - 1988 Co-Investigator of the role of the state in school expansion in Britain, France, Germany, and Italy, National Science Foundation (with Garnier and Fuller) (sociology).

1985 - 1986 Joint grant from National Science Foundation (USA) and C.N.R.S. (France) to do a pilot study of small, high tech companies (with Terry Shinn, C.N.R.S.).

1985 - 1986 Grant from the National Library of Medicine (N.I.H.) to write a book on hospitals (with Joseph Lengermann)

1983 - 1986 Post-Doctoral Program in Family Mental Health, National Institute of Mental Health

1982 - 1985 Co-Investigator on the study of the organization of agricultural research in Brazil, World Bank (with EMBRAPA).

1981 - 1982 Co-Director of Data Archives Grant President Toll Grant (with Reeve Vanneman)

1980 - 1983 Co-Investigator of the relationship between organizational design, environmental niche, and kind of innovation in 110 industrial plants (with Frank Hull) National Science Foundation grant (Technology and Policy)

1980 - 1983 Co-Investigator of the present state of theory regarding hospitals qua organizations (with Joseph Lengermann) U.S. Public Health Service grant

1980 - 1982 Co-Director of Research Practicums and Applied Research (with Kurt Finsterbusch) in Prince George's County Grant

1977 - 1978 Associate Researcher, La Maison de Science de l'Homme, Paris, France

1976 - 1979 Co-Investigator of the Relationship Between Resource Allocation and the Processes of Modernization and Development in Grant Britain, France, Germany, and Italy (with Edward Gargan) National Science Foundation grant (Sociology)

1975 - 1979 Co-Investigator of the Relative Importance of Centralization and of Interest Groups in Determining Innovation, Equality, and Efficiency in Health and in Education in the United States, Great Britain and France (with Hollingsworth and Sorensen) various small grants from various places, N.S.F. grant (sociology)

1971 - 1975 Co-Investigator of Interdisciplinary Investigation into the Comparative Causes of Societal Stability and Instability: A Longitudinal Analysis of Great Britain, Germany, France and Italy for the Period of 1825-1965 (with Edward Gargan) N.S.F. grant (social indicators)

1969 - 1971 Co-Director of the Coordination of Services for the Mentally Retarded: A Comparison of Five Community Efforts (with Michael Aiken) Social and Rehabilitation Services grant

- 1965 - 1966 Co-Director of Formal Properties of Role Relationships (with Gerald Marwell) U.S. Air Force grant  
 1964 - 1967 Co-Director of the Relationship between Organizational Factors and the Acceptance of Mental Retardation Programs (with Michael Aiken) Vocational Rehabilitation Services grant

***EDITORIAL POSITIONS HELD:***

- 1990 - 1993 Editorial Board, American Sociological Review (the official journal of the American Sociological Association)  
 1986 - 1998 Advisory Board, Organizational Studies  
 1978 - 1986 Editorial Board, Organizational Studies (official journal of the European Group of Organizational Studies)  
 1980 - 1983 Editorial Board Theory Journal (official journal of the American Sociological Association)  
 1977 - 1980 Editor, Perspectives, Theory Newsletter, American Sociological Association  
 1974 - 1977 Editorial Board, Organization and Administrative Sciences  
 1972 - 1975 Editorial Board, Social Forces  
 1968 - 1971 Editorial Board, Administrative Science Quarterly

***TEACHING POSITIONS HELD:***

- 1978 - 2000 Professor, Department of Sociology, University of Maryland  
 1971 - 1978 Professor of Sociology, University of Wisconsin  
 1968 - 1971 Associate Professor, University of Wisconsin  
 1964 - 1967 Assistant Professor, University of Wisconsin  
 1964 (Spring) Special Lecturer, University of Wisconsin

***UNIVERSITY AND CAMPUS ADMINISTRATION:***

**A. University of Maryland**

- 1996 - 1999 Member Advisory Board for Provost Hampton, Dean of Undergraduate Education.  
 1995 - 1996 Member Steering Committee, Mid Atlantic States Review  
 1995 - 1996 Chair, Task Force on Graduate Education for the Mid Atlantic States Review  
 1995 Review of the History Department, College of Arts and Humanities  
 1991 - 1992 University Planning Committee  
 1990 - 1993 Academic Planning Advisory Committee  
 1990 - 1991 Chair, Graduate Academic Affairs Committee  
 1990 - 1991 College of Behavioral and Social Sciences Promotion Committee  
 1989 - 1990 Human Development Review Committee, College of Education  
 1989 - 1990 Undergraduate Teaching Innovations Committee  
 1988 - 1990 Graduate Academic Affairs Committee  
 1988 - 1990 Educational Affairs Committee, Senate  
 1987 - 1990 Truman Scholarship Selection Committee  
 1987 - 1989 Graduate Council  
 1986 - 1989 Faculty Senate  
 1986 - 1987 Advisory Committee, College of Behavioral and Social Sciences  
 1985 - 1989 B.S.O.S. Faculty Incentives Committee  
 1986 - 1987 Graduate Council, Program Review Committee, Graduate School  
 1985 - 1986 Middle States Review, Curriculum Sub-Committee  
 1983 - 1986 Member, Undergraduate Committee for General University Requirements  
 1985 - 1986 Chair, Latin American Committee  
 1985 - 1986 Member, Divisional Ad Hoc Committee on General Education  
 1982 - 1984 Chair, Graduate PCC Committee  
 1982 - 1984 Member, Ad Hoc Committee on Division Curriculum

- 1982 - Co-Director, Center of Innovation
- 1982 - 1986 Advisory Council, Institute for Research in Higher Education
- 1981 - 1982 Member, Graduate PCC Committee
- 1980 - 1981 Member, Search Committee, School of Public Affairs
- 1979 - 1981 Chair, Divisional Speakers Committee
- 1978 - 1984 Chair, Department of Sociology, University of Maryland, College Park, Maryland

**B. University of Wisconsin**

- 1972 (Spring) Chairman, Program in Western European Studies, 1974 - 1975

***DEPARTMENTAL COMMITTEES AND ADMINISTRATION:***

**A. University of Maryland**

- 1996 Graduate Program Review Committee
- 1990 - 1996 Graduate Committee
- 1990 - 1991 Faculty Recruitment
- 1990 - 1991 Scheduling Committee
- 1989 - 1990 Teaching Evaluation Committee
- 1987 - 2000 Coordinator of Program in Political Economy
- 1987 - 1989 Chair, Graduate Program Committee
- 1986 - 1988 Policy Committee
- 1986 - 1987 Merit Sub-Committee
- 1985 - 1986 Chair Search Committee
- 1985 - 1986 Undergraduate Teaching Committee
- 1984 - 1985 Graduate Committee

**B. University of Wisconsin**

- 1973 - 1974 Member, Graduate Committee, Sociology Department
- 1968 - 1970 Chair, Curriculum Committee, Sociology Department

***CONSULTING POSITIONS HELD:***

- 2008 Consultant on the building of a Center for Innovation at the University of Santiago, Chile
- 2008 Consultant on the development of micro and meso indicators of the economic and social value of medical research for the Canadian Academy of Health Sciences
- 2001 - 2009 Consultant on measuring organizational characteristics that facilitate innovation in research organizations, the measurement of technical progress in scientific and technological research, the analysis of experiments to produce organizational change, the analysis of research environment surveys, development of performance managements systems for both research organizations and for Sandia National Laboratories with a grant from Basic Energy Sciences, DOE
- 2001 - 2002 Consultant on measuring the value added by networks in community interventions to improve women's health for a consortium of NGOs funded by USAID in the country of Nicaragua
- 2000 - 01 Review Panel on Innovation, DOE
- 1995 Pelfish in Indonesia ORSTROM, Paris, France
- 1995 Innovation in Complex Engineering Projects, University of Montreal, Quebec, Canada
- 1994 Commencor, Santiago, Chile
- 1993 - 1994 Review of Technical Education, Department of Education
- 1992 - 1993 Commissariat du Plan, France
- 1986 - 1987 Perry Cohen Associates
- 1985 - 1986 Transnational Corporation
- 1985 - 1986 N.A.S.P.A.A.
- 1984 - 1985 U.S. Agency for International Development (U.S.A.I.D.)
- 1982 - 1985 EMBRAPA - Brazil

1980 - 1983	National Science Foundation (section on technology and policy) - reviews of proposals
1980 - 1981	Health Care Finance Administration
1980 - 1981	ABT Associates
periodic	National Science Foundation (sociology), occasional reviews of proposals
periodic	Canadian Social Science Foundation, occasional reviews of proposals

***PUBLICATIONS, CURRENT WORK AND PROPOSED WORK BY AREA:***

**A. Organizations, Networks and Environments**

**I. Books Published:**

1. Social Change in Complex Organizations, (with Michael Aiken). Random House, 1970, New York: 170 pages. (Translated into both Danish and Dutch.)  
Chapter Three reprinted in Leigh Marlowe (ed.), Basic Topics in Social Psychology: An Interdisciplinary and Intercultural Reader, 1972 for Holbrook Press of Allyn and Bacon.
2. Organizational Systems: A Text Reader in the Sociology of Organization, (with Koya Azumi) D.C. Heath, Lexington, Massachusetts, 1972: 582 pages of which 90 pages is original text.
3. Communication and Organizational Control: A Cybernetics Perspective in a Health and Welfare Setting, Wiley-Interscience, New York, 1974: 273 pages.
4. Coordinating Human Services, (with Aiken et al.), Jossey-Bass, 1975.
5. Theories of Organizations: Form, Process, and Transformation, Wiley-Interscience, New York, 1980: 550 pages. (Book is translated into Chinese.)
6. Organizational Change as a Developmental Strategy: Theoretical Possibilities and Case Studies, (with Kurt Finsterbusch), Lynne Rienner Publisher, Inc., Boulder, Colorado, 1987.
7. The Futures of Organizations, editor, D.C. Heath, Lexington Series, Lexington, Mass., 1988.
8. Organizations Working Together (with Catherine Alter), Newbury Park, CA: Sage, 1993.
9. Organizational Innovation, editor, Ashford Press Dartmouth Publishing 1998
10. Innovation, Science and Institutional Change: A Handbook of Research (edited with Marius Meeus) Oxford: Oxford University Press

**II. Articles or Chapters Published or in Press**

1. "An Axiomatic Theory of Organizations." Administrative Science Quarterly, December, 1965: pp. 289-320.  
Reprinted in:
  - a. Carver, Fred D. and Serquovanni, Thomas J. (eds.), Organizations and Human Behavior, New York, McGraw-Hill, 1969: pp. 91-110.

- b. Koya Azumi and Jerald Hage, (eds.), Organizational Systems: A Text-Reader in the Sociology of Organizations, D.C. Heath, Lexington, Massachusetts, 1972: pp. 264-281.
  - c. Translated into German, published in 1976.
  - d. To be published: A two volume collection Classics in Management Thought Cary Couper (ed.) Cheltenham, UK, Edward Elgar
2. "Organizational Alienation: A Comparative Analysis," (with Michael Aiken) in American Sociological Review, August, 1966: pp. 497-507.
- Reprinted in:
- a. Oscar Grusky and George A. Miller (eds.), Sociology of Organizations: Basic Studies, Free Press: New York, 1971.
  - b. Jerold Starr, (ed.), Character and Social Structure, Little, Brown, and Company, 1973.
  - c. Delbert C. Miller, (ed.), Handbook of Research Design and Measurement, 1979.
  - d. Compendium of Instruments, Academic Press, 1981.
3. "Physician Attitudes Toward a Hospital Program in Medical Education," Journal of Medical Education, October, 1966: pp. 913-946 (with John Butler).
4. "Program Change and Other Organizational Properties: A Comparative Analysis," (with Michael Aiken) American Journal of Sociology, March 1967: pp. 503-519.
- Reprinted in:
- a. Harry A. Schatz (ed.), Social Work Administration: A Resource Book, 1970, Council on Social Work Education: pp. 114-131.
  - b. Koya Azumi and Jerald Hage (eds.), Organizational Systems: A Text-Reader in the Sociology of Organizations, 1972: pp. 482-491.
  - c. Richard English, and Yeheskel Hasenfeld (eds.). Human Service Organizations: A Book of Readings, 1974: pp. 720-742.
  - d. Translated into German and published in a book of readings in 1976.
  - e. Herman Resnick, and Patti J. Reno (eds.), Humanizing Social Welfare Organizations, 1980, Temple University Press, Philadelphia: pp. 159-182.
5. "Relationship of Centralization to Other Structural Properties," (with Michael Aiken) Administrative Science Quarterly, June, 1967: pp. 72-92.
6. "Organizational Interdependence and Intra-Organizational Structure," (with Michael Aiken) American Sociological Review, December, 1968: pp. 912-931.
- Reprinted in:
- a. Merlin B. Brinkerhoff and Philip R. Kun, Complex Organizations and Their Environments, William C. Brown Company, Dubuque, Iowa, 1972: pp. 367-394.
  - b. Wolf V. Heydebrand (ed.) Comparative Organizations: The Results of Empirical Research, Prentice-Hall, Englewood Cliffs, New Jersey, 1973: pp. 269-294.
  - c. Richard H. Hall (ed.) The Formal Organization, Basic Books, 1972: pp. 236-267.
  - d. John O. Maurer (ed.) Readings in Organizational Theory: Open Systems Approaches, Random House, New York, 1973.
  - e. Richard English and Yeheskel Hasenfeld (eds.) Human Service Organizations: A Book of Readings, University of Michigan Press, 1974: pp. 584-613.
  - f. Mary Zey-Ferrel (ed.) Readings on Dimensions of Organizations, San Francisco: Goodyear, 1979: pp. 59-82.

7. "Routine Technology Social Structure and Organizational Goals," (with Michael Aiken) Administrative Science Quarterly, September, 1969: pp. 366-376.  
Reprinted in:
  - a. Richard H. Hall (ed.), The Formal Organization, Basic Books: pp. 55-72.
  - b. Richard English and Yehenskel Hasenfeld (eds.), Human Service Organization: A Book of Readings, University of Michigan Press, 1974: pp. 298-314.
  - c. Mary Zey-Ferrel (ed.), Readings in Dimensions of Organizations, San Francisco: Goodyear, 1979: pp. 150-164.
  - d. Mayer Zald and George Martin (eds.), Social Welfare Institutions: A Sociological Reader, New York: Columbia Press.
8. "The Organic Organization and Innovation," (with Michael Aiken) Sociology, January, 1971. (Translated into German and published in a book of readings, 1976.)
9. "Organization Structure and Communications," (with Michael Aiken and Cora Marrett), American Sociological Review, October, 1971: pp. 860-871.  
Reprinted in:
  - a. Koya Azumi and Jerald Hage (eds.), Organizational Systems: A Text-Reader in the Sociology of Organizations, D.C. Heath, Lexington, Massachusetts, 1972: pp. 371-382.
  - b. Richard Huseman, Cal Logue and Dwight Freshley (eds.), Readings in Interpersonal and Organizational Communication, Halbrook Press, Boston, Massachusetts, 1973.
  - c. Mary Zey-Ferrel (ed.), Readings on Dimensions of Organizations, San Francisco, California: Goodyear, 1979: pp. 244-279.
  - d. Katz and Kahn (eds.), Organizational Research, 1980.
10. "Elite Values Versus Organizational Structure in Predicting Innovation," (with Robert Dewar) Administrative Science Quarterly, September, 1973: pp. 279-290.
11. "Organizational Perspectives About Education in Social Rehabilitation Schools," in Higher Education and the Social Professions, University of Kentucky, Lexington, Kentucky, June, 1973: pp. 115-137.
12. "A Systems Perspective on Organizational Program Change," in Issues in Organizations and Delivery of Health Services in the United States, University of North Carolina, Public Health School, 1974.
13. "A Proposal for a Strategy for Creating Interdependent Delivery Systems to Meet Complex Needs," in Organization and Administrative Sciences, Volume 5, Spring, 1974: pp. 17-44.
14. "Organizational Communication and Morale," (with Michael Aiken and Cora Bagley Marrett), Human Relations, Volume 28, 1975: pp. 611-626.
15. "Historically Specific vs. Sociologically General Variables: The Case of Organizational Environments," in Lucien Karpik (ed.) Organizational Environments, Sage, 1977.
16. "Constraining Choice and Choosing Constraints," Malcolm Warner (ed.) Choice and Constraint, Heath, 1977.
17. "Size, Technology and Structural Differentiation," (with Robert Dewar), Administrative Science Quarterly, March 1978.

18. "Unsolved Problems in Organizational Theory," in William Evan (ed.), Frontiers in Organization and Management, New York: Praeger, 1980: pp. 35-51.
19. "Strategies for Innovation and Productivity in America and Japan," (with Frank Hull and Koya Azumi), Technovation, 1981.
20. "Organizing for Innovation: Beyond Burns and Stalker," (with Frank Hull), Sociology, 1983: Volume 16, No. 4: pp. 564-577.
21. Chapter on communication and coordination in Shortell and Kaluzny (eds.), Health Care Management: A Text in Organization Theory and Behavior, New York: John Wiley, 1983.
22. "Managing High Technology" (with Koya Azumi and Frank Hull) in Mannari and Befu (eds.), The Challenge of Japan's Industrialization, (Japan: Kwansai Gakuein University), printed in English by Harper and Row, 1983: pp. 111-147.
23. "Organizational Theory and Productivity" in Arthur Brief (ed.), Productivity Research in the Behavioral and Social Sciences, New York: Praeger, 1983, pp. 91-126.
24. "Organizing for Innovation and Productivity," (with Frank Hull and Koya Azumi), Proceedings of the National Science Foundation Conference on Industrial Policy, May 1983.
25. "Technology, Innovation and Organizational Performance," chapter in Strategic Management of R & D, (Lexington, Mass.: Lexington Press, D.C. Heath).
26. "R & D Management Strategies: U.S. vs. Japan," (with Frank Hull and Koya Azumi), IEEE Transactions on Engineering Management, Volume EM-32 #2, May, 1985.
27. "Discontinuous Developments in the Nature of Industry-Government Relationships," in V.V. Murray (ed.), Theories of Business-Government Relations, Toronto, Canada: Trans-Canada Press, 1985: pp. 309-334.
28. "Alternative Industrial Responses to Technological and Market Changes," in Donald Davis (ed.), Managing Technological Innovation, Jossey-Bass, San Francisco, 1986: pp. 44-71.
29. "Conceptualizing Mental Health Delivery Systems: Organizational Theory Applied," in Richard Scott and Bruce L. Black (eds.), The Organization of Mental Health Services: Societal and Community Systems, Beverly Hills, CA.: Sage Publications, Inc., 1986: pp. 53-76.
30. "Reflections on New Technology and Organizational Change," in Johannes Pennings and A. Buitendam (eds.), New Technologies as Organizational Innovation, Cambridge, Mass.: Ballinger Publisher, 1987: pp. 261-276.
31. "Post-Industrial Society and the New Work Organizations," (with Terry Shinn), in Ideology and Technology, 1987, (in French language).

32. "Organizational and Technological Predictors of Change in Automaticity" (with Paul Collins and Frank Hull), Academy of Management Journal, Volume 31, No. 3, September 1988: pp. 512-543.
33. "Technical Systems: A Framework for the Analysis of Technology" (with Paul Collins and Frank Hull), Research in Sociology of Organizations (ed. Sam Bacharach and Nancy DiTomaso), Volume 6 (Greenwich, Conn.: JAI Press, 1988).
34. "Three Strategies of Organizational Change: Organizational Development, Organizational Theory, and Organizational Design" (with Kurt Finsterbusch), International Review of Administrative Sciences, Volume 55, No. 1 (March), 1989: pp. 29-57.
35. "Sobre com administias las empresarios japures if nerte Americanius" in Acuerdo y Conflisto en la Empresa Hay (experiencieas, propuesta, discusion con sindicatos) Santiago, Chile: Vicarici de Pastural Obrora-Ancolesbodi de Santiago) 1989 pp. 47-52. (In Spanish language.)
36. "Strategy, Social Responsibility and Implementation" (with Kenneth Kraft), Proceedings of the Midwest Academy of Management, 1989.
37. "Strategy, Social Responsibility and Implementation" (with Kenneth Kraft), Journal of Business Ethics, 1990.
38. "Structural Determinants of Performance" (with Kenneth Kraft), Proceedings of the Midwest Decision Science Institute, 1991.
39. "Interorganizational Network Systems: A New Institution and Governance Mechanisms" (with Cathy Alter) in Couglinh (ed.), Morality, Rationality and Efficiency: Perspectives in Socio-Economics 1990, (Armonk, NY: Sharpe) 1992.
40. The Impact of Knowledge on the Survival of American Manufacturing Plants (with Paul Collins, Frank Hull and Jay Teachman), Social Forces, September 1993, vol. 72 #1, pp. 223-246.
41. "Ideas about Strategic Alliances" in Improving the Management of Strategic Alliances, Arnold Kaluzny, Howard Zukermann and Thomas Richetts (eds.), (Health Administration Press) 1996.
42. Profiles of Leaders, Followers, and Lagards in Programmable Automation Adoption (with Paul Collins and Frank Hull, I.E.E.E. New Haven: Transactions on Engineering Management 1996, 43, 3 (August).
43. The Evolution of Inter-Organizational Networks(with Catherine Alter) 1997 in J. Rogers Hollingsworth and Robert Boyer (eds.) in Contemporary Capitalism: The Embeddedness of Institutions. New York: Cambridge University Press.
44. "Reflections on Emotional Rhetoric, and Boards for Governance of NPOS 1998 in Walter Powell and Elisabeth Clemens (eds.) Private Action and the Public Good. Yale Press, 291-302.
45. Organizational Innovation and Organizational Change 1999 Annual Review of Sociology, 25:597-622.

46. Die Innovation von Organisationen und die Organisation von Innovationen (in German) 2000 Österreichische Zeitschrift für Geschichtswissenschaften ,11, 1: 67-86
47. A Strategy for Analyses of Idea Innovation Networks and Institutions≅ Organization Studies (Special Issue: The Institutional Dynamics of Innovation Systems), 5, 2000: 971-1004
48. Sectoral Patterns of Interactive Learning: An empirical exploration of a case of Dutch region. (with Meeus and Oerlemans) 2000 Technology Analysis and Strategic Management, 13: 407-31
49. Patterns of Interactive Learning in a High Tech Region. 2001 (with Meeus and Oerlemans) Organization Studies, 22: 145-72
50. Interactive Learning between Industry and Knowledge Infrastructure. An explanation of an extended resource-based model in a high tech region. 2001 (with Meeus and Oerlemans) In S. Bakker, F. Boekema, P. Marshall, R. Retten (Eds.) Knowledge Infrastructure, and Learning Regions, Edward Edgar.
51. Adaptive Costs: A new institutional paradigm of rules for the competitive game 2001 Current Sociology, 49, # 4 (July)
52. Institutional Pathways, Networks, and the Differentiation of National Economies (with J. Rogers Hollingsworth) 2002 in J. Rogers Hollingsworth, Müller and Hollingsworth Advancing Socio-Economics: An institutionalist perspective (London: Rowman and Littlefield): 381-398
53. Minding the gaps: new insights into R&D management and operational transitions of NOAA satellite products. (with Colton, Powell, Jordan, and Mote) 2004 *Proceedings of the International Society for Optical Engineering (SPIE)*. Volume 5548 (October): 1-10.
54. Industrial-Public Knowledge Infrastructure Interaction: Intra-and inter-organizational explanations of interaction learning (with Meeus and Oerlemans) 2004. Industrial Innovation, 11, # 4 (December): 327-352
55. Organizations and innovation: Contributions from organizational sociology and administrative science 2005 in Casper and van Waarden (editors) Innovation and Institutions: A multidisciplinary review of the study of innovation systems (Cheltenham, UK: Edward Elgar): 71-112
56. “Investigating Differences Among R&D Projects and Implications for Managers.” (with Jordan, Mote and Hepler) 2005. R&D Management 35 (5): 501-511.
57. Understanding the Relationship of Maternal Health Behavior Change and Intervention Strategies in a Nicaraguan NGO Network (with Valadez and Vargas) 2005 Social Science and Medicine, 61: 1356-1368
58. Knowledge and Societal Change: Institutional coordination and the evolution of organizational populations 2006 in Sales and Fournier (Editors) Knowledge, Communication and Creativity Sage Studies in International Sociology (London: Sage)

59. Product and Process Innovation, Scientific Research, Knowledge Dynamics, and Institutional Change: An introduction (with Meeus) 2006 in (Hage and Meeus editors) Innovation, Science and Institutional Change: A Handbook of Research Oxford: Oxford University Press: 1-22
60. Introduction to Part II Scientific Research : New Frameworks 2006 in (Hage and Meeus editors) Innovation, Science and Institutional Change: A Handbook of Research Oxford: Oxford University Press: 163-172
61. Conclusion (with Meeus) 2006 in (Hage and Meeus editors) Innovation, Science and Institutional Change: A Handbook of Research Oxford: Oxford University Press: 545-576
62. R&D Integration: How to build a diverse and integrated knowledge community (with Mote and Jordan) 2007 *Proceedings of the Portland International Conference on Management of Engineering and Technology*, 2
63. Measuring Radical Innovation in Real Time (with Jordan and Mote) 2007 International Journal of Technology, Policy and Management, 7 (4): 355-377
64. A Theories Based Systemic Framework for Evaluating Diverse Portfolios of Scientific Work: Part Two, Macro Indicators and Policy Interventions (with Jordan and Mote) Science and Public Policy, 34 (10): 731-741
65. New Directions in the Use of Network Analysis in R&D Evaluation (with Mote and Jordan) 2007 Research Evaluation, 16 (3): 191-203
66. Perceptions of the Research Environment: Examining the role of researchers networks (with Mote, Whitestone, and Jordan) 2007 International Journal of Foresight and Innovation Policy, 4 (3): 246-264
67. Transformational Organizations and Institutional Change: The case of the Institut Pasteur and French science (with Mote) 2008 Socio-Economic Review, 6 (2): 313-336
68. A Theories-Based Systemic Framework for Evaluating Diverse Portfolios of Scientific Work, Part One: Micro and meso indicators (with Jordan and Mote) 2008 in C.L. S. Coryn and Michael Scriven (eds.) Reforming the Evaluation of Research: New Directors for Evaluations, 118: 7-24
69. Transformational Organizations and a Burst of Scientific Breakthroughs: Institut Pasteur and Biomedicine, 1889-1918 (with Jonathan Mote) 2010 *Social Science History*, July

### **III. Minor Publications and Exchanges Published or in Press**

1. Reply to critique of Barton about an "Axiomatic Theory," Administrative Science Quarterly, June, 1966: pp. 141-146.
2. Reply to critique of Tausky about "Organizational Alienation," American Sociological Review, February, 1967: pp. 118-120 (with Michael Aiken).

3. Review of Rocco Carzo, Jr. and John N. Yanouzes, Formal Organization: A System's Approach in Administrative Science Quarterly, December, 1967: pp. 525-529.
4. Review of James L. Price, Organizational Effectiveness: An Inventory of Propositions in Social Forces, December, 1968: pp. 236-237.
5. Review of James L. Price, Organizational Effectiveness: An Inventory of Propositions in Administrative Science Quarterly, June 1968: pp. 167-170.
6. Review of Arnold T. Tannenbaum, Control in Organizations in American Sociological Review, August, 1969: pp. 586-587.
7. Reply to critique of Faia about "Organizational Structure and Communications," (with Michael Aiken and Cora B. Marrett) American Sociological Review, August, 1972: pp. 501-505.
8. Review of Spencer, Structure and Dynamic of Intervention in Social Forces, September, 1973.
9. Review of Dean Champion, "The Sociology of Organizations," Administrative Science Quarterly, June, 1975: pp. 308-311.
10. Review of Brinkerhoff and Junz (eds.), "Complex Organizations and Their Environments," Contemporary Sociology, Volume 5, May, 1976: pp. 330.
11. Review of Zaltman, et al., Innovations and Organizations, Zaltman, Processes and Phenomena of Social Change, Ibid, July, 1976: 479.
12. Review of Zaltman, et al., Process of Social Change, Ibid.
13. Review of Morin, La Development des Organizations, Administrative Science Quarterly, March, 1978.
14. Review of Mintzberg, The Structuring of Organizations in Administrative Science Quarterly, September, 1980.
15. Review of Bacharach and Lawler, Power and Politics in Organizations: Social Psychology of Conflict, coalitions and Bargaining in Contemporary Sociology, March, 1982.
16. Review of Lex Donaldson, In Defense of Organization Theory: A Reply to the Critics, in Australian Journal of Management, December, 1986.
17. Review of Peter Clark, Anglo-American Innovation (1987) in R & D Management Journal.
18. "Response to 'Contingency Theory: The Wrong Door'", International Review of Administrative Sciences, Volume 55 (1989): pp. 133-140.
19. The following short articles were written for the definitions of complexity, division of labor, departmentalization, decentralization, hierarchy, formal organization,

formalization, stratification. Nigel Nicholson (editor). Encyclopedic Dictionary of Organizational Behavior, London: Blackwell 1995.

20. The Aston Group, a short article was written for The International Encyclopedia of Business and Management, Malcom Warren (ed.) London: International Innovation: 6 pages
21. Organizational Innovation applied to the problem of fisheries in the Java Sea, *Proceedings of Socio-Economics, Innovation and Management of the Java Sea Pelagic Fisheries, 4-7 December 1995* Bandung, Java, J.Rock, S. Nurhakim, J.Wiodode, and A. Poemono (eds.) Paris, European Union and Orstom 1998: 47-52
22. Two short articles, one on forms of economic organization and another on Innovation 2005 for Beckert and Zafirovsk (editors) Encyclopedia of Economic Sociology (London: Routledge)

#### ***IV Unpublished Consulting Reports***

1. Changing Human Behavior in Developing Countries: A model for vvaluating organizational interventions and inter-organizational networks (with Valadez) 2004 a book length manuscript
2. Managing and Measuring Technical Innovation in Research Organizations: The development of Alternative Measures of Technical Progress (with Jordan, Mote, and Hepler) 2004 Report for Sandia National Laboratories
3. Interim Report on the Impact of Mesa Top on Researchers' Attitudes and Behavior (with Jordan, Mote and Kurashina) 2005 Report for Sandia National Laboratories
4. "The Importance of Leadership in the Formation of a New Department: A report on the science and technology department for the neutron generator" (with Jordan and Mote) 2005 Report for Sandia National Laboratories
5. "Perceptions of the ORA Research Environment and Areas to Investigate for Improvement: A preliminary report on the results of the research environment survey" (Hage, Mote and Kurashina) 2005 Report for STAR of NOAA
6. "Perceptions of the STAR Research Environment: Kinds of Research and Kinds of Research Projects: A Final Report" (with Mote and Kurashina) 2006
7. "The Economic Benefits of Satellite, Remotely-sensed Data: A Report to NOAA's Center for Satellite Applications and Research (STAR)" (with Mote and Ngulie) 2007
8. White Paper on "Stimulating Innovation: Practical Suggestions for Project Leaders and Managers", commissioned by Sandia National Laboratories (with Jon Mote) 2007
9. "The Panel Study of the STAR Research Environment: *Changes* in the Perceptions of the Research Scientists Between 2005 and 2007" (with Mote, Kurashina and Jordan) 2008

10. White paper on "Metrics for the Treatment Sector or Meso Level of the Canadian Health Care System" commissioned by the Canadian Academy of Health Sciences 2008

## **B. Societal, Institutional Analysis and Macro Evaluation Research and Policy Studies**

### ***I Books Published or in Press:***

1. State Responsiveness and State Activism: An Examination of the Social Forces and State Strategies that Caused the Rise in Social Expenditures in Britain, France, Germany and Italy for the Period 1870-1968, (with Robert Hanneman and Edward Gargan). (London: George Allen and Unwin), 1989.
2. State Intervention in Health Care (with J. Rogers Hollingsworth and Robert Hanneman) (Ithaca, N.Y.: Political Economy Series of Cornell University Press), 266 pages, 1990.

### ***II. Articles Published:***

1. "A Theory of Nonmetropolitan Growth" in Summers and Selvik (eds.) Nonmetropolitan Industrial Growth and Community Change, Lexington, Mass.: D.C. Heath, 1979.
2. "Growth of the Welfare State in Four Western European Societies," (with Hanneman) Comparative Studies in Sociology, Volume III, 1980.
3. "Coordination Styles and Economic Growth," (with Clignet), Annals of the American Academy of Political Science, Volume 459, January 1982: pp. 77-92.
4. "Techniques for Delineating Periods: An Example with the Growth of British Welfare State" a chapter in Furniss (ed.), Futures for the Welfare State, (Bloomington, IN: Indiana University Press) 1986, pp. 71-100.
5. "The Challenge of Training in Applied Sociology," (with D. Johnson, Wm. Brown, T. Lyson, D. Orthner, S. Paulson, G. Squires and R. Wimberley), The American Sociologist, Winter 1987, pp. 356-368.
6. "The Active State and the Coupling of Education and Economic Growth: France" (with Fuller and Garnier), American Sociological Review, December, 1988.
7. "The Strong State, Social Classes and Controlled School Expansion in France, 1825-1975," (with Garnier and Fuller), American Journal of Sociology, Volume 95, No. 2, September 1989: pp. 279-306.
8. "The Sociology of Traditional Economic Problems: Product Markets and Labor Markets," Work and Occupations, Volume 16, No. 4, November 1989: pp. 416-445.
9. "State Action and Labor Structure Change in Mexico" (with Garnier and Fuller), Social Forces, 1990: pp. 1165-1190.
10. "Social Class, the Hesitant State and the Expansion of Secondary Schools in Britain, 1870-1975," (with Garnier) in Corwin (ed), Research in Education and Stratification, Volume 9, 1990 (Greenwich, Conn.: J.A.I. Press): pp. 55-80.

11. "Education and Economic Growth in Germany," (with Garnier) in Corwin (ed.), Research in Education and Stratification, Volume 9, 1990 (Greenwich, Conn.: J.A.I. Press).
12. "Organizational Theory and Why the Phillips Curve Moved to the Left," Journal of Behavioral Economics, Volume 19, No. 3 (Fall 1990): pp. 285-304.
13. "Institutional Boundaries of Economic Development: Literacy, School Expansion and Labor Structure Change in the Third World" (with Fuller and Garnier), Social Forces, vol. 68 #4 (June), pp. 1165-1191.
14. "Class, Gender and School Expansion in France: Four-Systems Comparison," (with Garnier) Sociology of Education, October, 1991 pp 229-250.
15. "Strong States and the Dynamics of Educational Expansion: France vs Italy 1881-1975," in Rubinson and Fuller (eds.), Education in a World Perspective, (New York: Praeger), 1992.
16. "Nation Building under the French State" (with Fuller, Garnier and Sworsky), Social Forces (June) vol 7, #4, pp 923-936.
17. "Alternative Strategies for the Reconstruction of the State During Economic Reform" (with Zhenfu Shi), Governance, December 1993.
18. El Estado fuerte, la coordinación de la educación y el crecimiento económico en Francia y Alemania in Clara Eugenia Núñez y Gabriel Tortella (eds.), La maldición divina: Ignorancia y atraso económico en perspectiva histórica. Madrid: Alianza Editorial, 1993 pp. 149-180. (Published in Spanish.)
19. "Systeme Educatif et Croissance Economique" (with Maurice Garnier) in a journal published by the French government, June 1993. (Published in French.)
20. "Adaptive Efficiency" (with Zhongren Jing), to be published by the Society for Advancement of Socio-Economics.
21. "The Effect of Human Capital and State Intervention on the Performance of Medical Systems," (with Hollingsworth, Hanneman, and Ragin), Social Forces 75, 2 (December, 1996), pp. 454-484.
22. "Institutional Change and Societal Change: The impact of knowledge transformations 2006 in (Hage and Meeus editors) Innovation, Science and Institutional Change: A Handbook of Research Oxford: Oxford University Press: 465-482
23. "Introduction to Part IV Institutions and Institutional Change 2006 in (Hage and Meeus editors) Innovation, Science and Institutional Change: A Handbook of Research Oxford: Oxford University Press: 415-422

**III. Minor Publications and Exchanges Published or in Press:**

1. Review of Fritz Ringer Education and Society in Modern Europe, Sociology and Social Research, 1982.

**IV. Project Reports:**

1. The Technical Training Advantages: A Review of Vocational and Technical Education Effects for Individuals, Plants, and Economic Growth in Britain, France, Germany and the United States (with Maurice Garnier), report to Department of Education, Washington, D.C., 1993
2. "Types de Capital Humaine et Croissance Economique: Rapport Prelimaire" (with Maurice Garnier), First report to the Ministry of Education, Paris, France, 1992.
3. "Systeme Educatif et Croissance Economique" (with Maurice Garnier), report to the Commissariat au Plan, 1992.
4. Quantité et Qualité de Capital Humaine et Croissance Economique: Second rapport report to the Minister of Education, Paris France, 1992.

### **C. Role Theory**

#### ***I. Books Published:***

1. Post-Industrial Lives (with Charles Powers), Newbury Park, CA: Sage 1992.

#### ***II. Articles Published:***

1. "Patterns of Peer Interaction During Adolescence as Prognostic Indicators in Schizophrenia," (with Raymond Pitt) American Journal of Psychiatry, May, 1964: pp. 1089-1096.
2. "Toward the Development of an Empirically Based Theory of Role Relationships," (with Gerald Marwell) Sociometry, June, 1968: pp. 200-212.
3. "The Organization of Role-Relationships: A Systematic Description," (with Gerald Marwell) American Sociological Review, October, 1970: pp. 884-900.
4. "Youth Crime in Post-industrial Societies," (with Paul Friday) Criminology, November, 1976.

Reprinted in:

- a. Translated into Russian, reference unknown.
- b. Louise I. Shelley (ed.) Readings in Comparative Criminology, Southern Illinois University Press, 1981: pp. 43-56.
5. "Post-Industrial Lives, New Demands New Prescriptions" in Ann Howard (ed.), The Changing Nature of Work (San Francisco: Jossey-Bass) annual volume of the American Psychological Association, section on industrial psychology, 1995.

#### ***III. Minor Publications and Exchanges Published or in Press:***

1. "Role Theory: Concepts and Research," (Bruce J. Biddle and Edwin J. Thomas), in American Sociological Review, October, 1967: pp. 857-858.

## **D. Theory Construction and Methodology**

### ***I. Books Published:***

1. Techniques and Problems of Theory Construction in Sociology, Wiley Interscience, New York, 1972: 239 pages. (Translated into Japanese.)
2. Social Causality (with Barbara Meeker), George Allen and Unwin, London, 1988.
3. Formal Theory in Sociology. 1994 SUNY Press, Albany, N.Y.

### ***II. Articles or Chapters in Books Published:***

1. "Theoretical Decision-rules Research and Methods for Studying Nations, States, or Societies," Sociological Research and Methods, October, 1975.
2. "A General Scheme for Policy Analysis," Annals of the American Academy of Political and Social Science, Volume 434, November, 1977.
3. "Procedures for Periodization in History: Determining Distinct Eras in the Histories of Britain, France, Germany and Italy" (with Edward T. Gargan and Robert Hanneman). A chapter in Jerome Clubb and Erwin Scheuch (eds.), Historical Social Research: The Use of Historical and Process Produced Data, (Klett-Cotta).
4. "The Process of Theory Construction: A Case History of the Construction of the Axiomatic Theory of Organization," Wisconsin Sociologist, 16, Spring-Summer, 1979: pp. 31-61.
5. "Theory Construction" chapter in Nigel Nicholson and Toby D. Wall, The Theory and Practice of Organizational Psychology. A Collection of Original Essays, New York: Wiley, Halsted Press, 1982.
6. The Intersection of Philosophy and Theory Construction: The problem of the origin of elements in a theory 2006 in Turner et al. Philosophy of Anthropology and Sociology Elsevier Press

### ***III. Minor Publications and Exchanges Published or in Press.***

1. Review of Derek Phillips, Abandoning Method, Administrative Science Quarterly, June, 1975: pp. 308-311.
2. Review of James Herick, "Theory Building for Basic Institutional Change," in Contemporary Sociology, August, 1980.

## ***PAPERS OR LECTURES PRESENTED AT PROFESSIONAL MEETINGS***

### **A. International Meetings**

#### ***I. International Professional Associations***

1. International World Congress of Sociology, 1974, 1978, 1982, 1990, 1994, 1998, 2002

2. European Group for Organizational Studies, 1976, 1977, 1981, 1998, 1999,
3. Society for the Advancement of Socio-Economics, 1992, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2007, 2009
4. International World Congress of Political Science, Toronto, Canada, 1972.
5. VIIth World Congress for Rural Sociology, Bologna, Italy, August, 1988.
6. International Institute of Sociology, June 1993, Paris France
7. R&D Management Conferences, 2004 (Sesimbra, Portugal) and 2005 (Pisa, Italy)
8. PICMET conferences, 2007

**II. *International Work Conferences on Technical Subjects.***

1. Working group on the institutional context of business systems in Arrigas, France, July 1992; Madison, WI, February 1993; Oxford, England, September 1993; Manchester, England, May 1994.
2. Special Conference on Politics and Welfare, Helsinki, Finland, 1973.
3. Joint Sociology-Anthropology Conference, Wenner-Gren Foundation, Austria, August, 1980.
4. Special Conference on Health Care Efficiency, Linkoping, Sweden, 1981.
5. Conference on Government-Business Relationships, York University, Toronto, Canada, 1984.
6. Conference on Agricultural Research, Cairo University, Cairo, Egypt, 1985.
7. Joint I.S.A. meeting, section on culture and section on organizations in Tokyo, Japan, July 1992.
8. O.R.S.T.O.M., September 1993, Paris France special conference on methods of research in development.
9. Conference on the French Education Research, Paris France, December 1994.
10. Conference on the Java Sea held by Pelfish, Semarang, Indonesia, 1995.
11. Conference on Major Discoveries in Bio-Medicine, Royal Academy of Science, Stockholm, Sweden 1996.
12. EMOT Conference on Structure and Performance, Berlin, Germany, 1997.
13. NIAS Conference on Innovation, Wassenaar, The Netherlands 1998.
14. E.U. Conference on evaluation, Brussels, Belgium, 2004

**III. *Invited Lectures at Foreign Universities***

1. Imperial College, London, U.K., 1967
2. Bradford University (Business School), Bradford, England, 1976
3. Leiden University (sociology department) Leiden, Netherlands, 1977
4. During the summer of 1992 while in Japan, I was invited to give lectures at three different universities, two were for Sociology departments and one for a business institute, and a large public address at the Japan International House.
5. While in England as a Centennial Visiting Professor at L.S.E. in 1994 at the Manchester Business School, London Business School, Institute for Education of the University of London, the University of Southampton (Sociology and Public Administration) as well as a major public lecture at L.S.E.
6. When in Stockholm in 1996, I gave talks both at the Business Studies Department and in the Sociology Department Uppsala University.
7. While a fellow at the Netherlands Institute for Advanced Studies 1998-1999, I gave a talk at Eindhoven Technological University and Nijmegen Business School in the Netherlands and at the Institut Pasteur, Paris, France.
8. During my three months stay at the Eindhoven University, 2001, I gave two talks to the graduate students and faculty there and one talk to Utrecht University.
9. While traveling in China, I was invited to give lectures at four Chinese Universities: Fudan University (economics department) in Shanghai, Zi'an Jiantong University in Xi'an, Hangzhou University in Hangzhou, and Beijing Technical University in Beijing
10. While attending the World Congress of Sociology in Australia, I was asked to give a lecture at the Australian Business School in Sidney, Australia.

**B. National Meetings:**

***I. National Professional Associations***

1. American Sociological Association, 1959, 1965, 1967, 1970, 1971, 1972, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1987, 1988, 1990, 1993, 1994, 1995, 2005, 2009.
2. Society for the Study of Social Problems, 1970.
3. American Historical Association, 1974.
4. American Social Science History Association, 1976, 1977, 1989, 1990.
5. National Conference of the Family, 1978.
6. Rural Sociological Society, 1978.
7. American Statistical Association, 1979.
8. Council for European Studies, 1979, 1980, 1982, 1989.
9. Meeting for the Annals of the American Academy of Political Science, 1975, 1981.

10. International Studies Association, 1982.
12. American Academy of Management, 1983, 1984, 1990, 1995.
13. National Association of Schools of Public Administration, 1985
14. American Association for the Advancement of Science, 2006, 2009
15. American Evaluation Association, 2007, 2008, 2009

**II. *National Work Conferences on Technical Subjects***

1. Chapel Hill, North Carolina, 1973;
2. Madison, Wisconsin, 1981;
3. Albany, New York, 1982;
4. Bloomington, Indiana, 1983;
5. Blacksburg, Virginia, 1983;
6. Norfolk, Virginia, 1983 on the adoption of flexible manufacturing;
7. National Institute of Mental Health, Bethesda, Maryland, 1984 on organizational models for mental health
8. Madison, Wisconsin, 1986.
9. SC-5 Research Exchange and WREN Workshop, 2004
11. Georgia Tech Evaluation Meetings, Atlanta, GA: 2006, 2007, 2009

**III. *Regional Meetings:***

1. Eastern Sociological Society, 1963, 1979, 1983, 1986, 1989.
2. Midwestern Sociological Society, 1973, 1975.
3. Southwestern Sociological Society, 1974.
4. D. C. Sociological Society, 1983, 1995.
5. Southwestern Sociological Society, 1985, 1990.
6. Midwestern Academy of Management, 1989
7. Midwest Political Science Association, 1991.
8. Midwest Decision Science Institute, 1991.

**IV. *Invited Lectures in addition to visiting professorships***

1. University of Chicago (Business School), 1968
2. University of North Carolina (School of Public Administration), 1972
3. Northern Illinois University, 1974
4. University of California-Berkeley (Business School), 1975
5. Stanford (Business School), 1975
6. M.I.T. (Sloan School), 1979
7. University of Pennsylvania (Wharton), 1980
8. University of Puerto Rico (School of Public Administration), 1980

**V. *Conferences that I have Organized:***

1. 1983 "The Futures of Organizations" University of Maryland at College Park.
2. 1990 "Formal Theory Construction: Past, Present, and Future Tense," University of Maryland at College Park (August 10).
3. 2002 Planning conference for the preparation of the book Innovation, Science and Institutional Change, Washington, D.C.
4. 2003 First conference for the preparation of the book Innovation, Science and Institutional Change, Utrecht University, the Netherlands
5. 2004 Second conference for the preparation of the book Innovation, Science and Institutional Change, Kech Institute, Claremont Colleges

***ASSOCIATIONS***

American Sociological Association

D.C. Sociological Association

Society for Advancement of Socio-Economics

American Association for the Advancement of Science

