

RESUME OF GUS A. KOEHLER, Ph.D.

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CURRENT POSITIONS Director, California Community Colleges Economic Development Program Coordination Network (ED>Net), 2001-present. Manage and coordinate a statewide network of ten initiatives (biotechnology, multimedia, Advanced Technology, and others) that deliver workforce and business training and technology transfer services through California's 108 Community Colleges. Manage, market, serve as legislative advocate, and evaluate the program.

Principal Consultant, Time Structures. 1995-present (<http://timestructures.com>) Founder of a privately held consulting group. Jointly awarded with the California Library Foundation and the California Research Bureau, a National Science Foundation Biocomplexity Incubation Grant to develop, visualize, and apply the concepts of time-ecology and heterochrony to government/industry clusters. Assisted with research on time related issues for California Legislative Committee to Prepare California for the 21st Century, RAND Complexity workshop for the White House Science and Technology Series, temporal orientatin of small manufacturers, and preparation of temporal signature training programs, among other activities.

Adjunct, Public and Administration and Regional Development, University of Southern California, Sacramento Campus. 1997-present.

IMMEDIATE PAST POSITION Senior Policy Analyst, California Research Bureau, California State Library, 1993 - present. Consult with, provide technical advice, and conduct non-partisan policy and other research for the California State Legislature, the Governor, and other elected state officials. My duties also include drafting bills, helping to prepare legislative hearings, preparing administrative hearings, and consulting. Examples of areas of expertise: energy, venture capital, economic development, manufacturing, foreign trade, business networks, biotechnology, and genetically modified food.

EDUCATIONAL BACKGROUND Ph.D., Political Science and Sociology, University of California at Davis, Davis, California, 1974. Fields of concentration: Political Theory, Political Sociology, and Comparative Politics. Dissertation: "Cosmology and Elite Democratic Theory."

MA, Political Science, California State University at San Jose, San Jose, California, 1968. Fields of Concentration: Comparative Politics, Constitutional Law, and Political Theory. Thesis: "A Critique of David Easton's Political Systems Theory."

BA, Social Science, California State University at San Diego, San Diego, California, 1966.

ANALYTICAL TRAINING I have been trained in and applied the following tools: survey research methods, experimental design, various chaos and complexity analysis tools, management analysis, cost/effectiveness, and statistical analysis. Software experience: Word, Excel, Santia, and other analytical software.

ACADEMIC EMPLOYMENT I have taught at the graduate and undergraduate levels as an Adjunct Professor of Political Science, Sociology, and Public Administration at public and private colleges and universities. I have taught at Golden Gate University, University of Southern California, and Sacramento State University, Foothill Community College, Sacramento City College, Solano Community College. I have also designed and taught various adult training programs offered by the University of California Extension, and by the California Specialized Training Institute.

ACADEMIC PUBLICATIONS AND RESEARCH PAPERS "Time, Complex Systems, and Public Policy: A Theoretical Foundation for Adaptive Policy Making", *Nonlinear Dynamics, Psychology, and Life Sciences*, (Forthcoming) Vol. 7, No. 1, January 2003.

"Time and Public Policy", an invited paper presented at the Science and Technology Policy Institute," RAND, Washington D.C., November 2001.

"What Disaster Response Management Can Learn from Chaos Theory", in Ali Farazmand (2001). *Handbook of Crisis and Emergency Management*. New York: Marcel Dekker, Inc. With Gunther Kress and Randi Miller.

"Chronocomplexity", an invited paper presented at the Annual Chaos in Psychology and the Life Sciences Conference, Madison Wisconsin, July 20, 2001.

"Visualizing Dynamics Resulting from the Political Regulation of Time-Ecologies", an invited paper presented at the Eleventh Triennial Conference, International Society for the Study of Time, July 8-14, 2001, Castello di Gargonza, Italy.

"Stewart Brand's, 'The Long Now' a Book Review", *Time's News*, January 1, 2000.

"Government Regulation of Industry-Cluster Time-Ecologies," a paper presented at the International Conference of Complex Systems, Nashu, New Hampshire, May 21-26, 2000.

"The Time Compact Globe and the Techno-Primitive at the Millennium," a chapter in Euel Elliot and L. Douglas Kiel (Eds.), (2000), *Nonlinear Dynamics, Complexity and Public Policy*. New York: New Science Publications, Inc.

"Political Regulation of Time Ecologies," a paper presented at the Society for Chaos Theory in Psychology and Life Sciences Conference, Berkeley, July 1999. Submitted for publication in *Time and Society*.

"The Sandpiles: At Home, At Work, and AT Play," Newsletter, Society for Chaos Theory in Psychology and Life Sciences, Vol. 5, No. 3. April, 1998, p. 5. With other commentators.

"Analyzing Those Nasty EEGs", Newsletter, Society for Chaos Theory in Psychology and Life Sciences, Vol. 5, No. 2, February, 1998, p.5. With other commentators.

"The Feigenbaum Diagram: A Metapattern For The Social Construction Of Time," Prepared for presentation at the Sixth Annual International Conference of the Society for Chaos Theory in Psychology and the Life Science, June 25-28, 1996, University of California, Berkeley, San Francisco, California.

"What Disaster Management Can Learn From Chaos Theory," in *What Disaster Management Can Learn From Chaos Theory: Proceedings of a Conference*, jointly Sponsored by California Bureau and California Emergency Medical Authority held in Sacramento May, 1995, Ed. Gus Koehler, March 1996.

"Chaos Theory...It Ain't Necessarily So," presentation and workshop, at "Delivering Health and Medical Services in Catastrophic Disasters," a conference sponsored by United States National Disaster Medical System.

"Fractals and Path Dependent Processes: A Theoretical Approach for Characterizing Emergency Medical Responses to Major Disasters," *Proceedings of the Society for Chaos Theory in Psychology*; Lawrence Erlbaum Associates, 1995.

"Medical Care for the Injured: The Emergency Medical Response to the April 1992 Los Angeles Civil Disturbance," Annual Meeting, American Public Health Association, 1993.

"The Emergency Medical Response to the Cantara Hazardous Materials Disaster," *Prehospital and Disaster Medicine*, Volume 8, No. 3, July-September, 1993, with Carol Van Ness, RN.

"A Computer Simulation of A California Casualty Collection Point Used to Respond to a Major Earthquake," *Prehospital and Disaster Medicine*, October, 1992.

"California's New Poison Control Center Network," *The Western Journal of Medicine*, 1992, With Bruce Haynes.

"Medical Response to Catastrophic Events: California Planning and the Loma Prieta Earthquake," *Annals of Emergency Medicine*, Vol. 21, No. 4, April, 1992. With Calvin Freeman, Bruce Haynes, and others.

"The Earthquake Medical Disaster: Chaos, Self-Organization and the State Emergency Medical Services Response," *Western Governmental Researcher*, Winter, 1991.

"A Computer Simulation of a California Casualty Collection Point Used to Respond to a Major Earthquake," *Proceedings of the UCLA International Conference on the Impact of Natural Disasters*, July 10-12, 1991.

"Hazardous Materials Medical Management Protocols," 7th World Congress on Emergency and Disaster Medicine, 1991, Montreal, Canada.

"Computer Simulation of Casualty Collection Point Operations," 7th World Congress on Emergency and Disaster Medicine, 1991, Montreal, Canada.

"Hazardous Materials Medical Management Protocols, Second Edition", Emergency Medical Services Authority, 1991. A 125 page book published by the Department. Over 2,500 published and distributed.

"Cellular Communications," *Emergency Medical Services*, Volume 19, # 9, September, 1990.

"The Earthquake Medical Disaster", presenter and panel convener, Western Government Research Association, Oakland, March 26, 1990.

"The Earthquake Medical Disaster: Chaos, Self-Organization and the State Emergency Medical Services Response," presented at the Western Political Science Association Meeting, New Port Beach, California, March 22-24, 1990.

"The Development and Implementation of California's Regional Poison Control Center Program," presented at the Childhood Injury Control Annual Conference, San Francisco, March 8-9, 1990.

"Hazardous Materials Medical Management Protocols", Emergency Medical Services Authority, 1989. A seventy-five page book published by the Department. Over 3,000 have been published and distributed.

"Poison Control Centers are Cost Effective", *Abstracts of the University Association for Emergency Medicine*, *Annals of Emergency Medicine*, April, 1989, with Jeffrey Guterman, Robert Galli, Marc Bayer, and Bruce Haynes, 1989.

"An Inquiry Into the Biological Rules for Forming Political Ontologies", presented at the Western Political Science Association Convention, San Francisco, 1988.

"EMS Dispatcher Training in California," Emergency Medical Services, August, 1986, with George Moorhead.

"Learning in Organizations," presented to the American Political Science Association, New Orleans, Louisiana, (August, 1985), with Guenther Kress and J. Frederick Springer.

"Organizational Learning", presented at American Political Science Convention, 1984, with Guenther Kress and J. Frederick Springer.

"Managing Organizational Change", proceedings of a workshop with Stanley Kelerman, John Vasconcellos, Policy Resources Institute, Sacramento, 1984.

"Perinatal Health Care for the Poor: A Continuing Deficiency in California", California Department of Consumer Affairs, 1982. A 418 page book published by the Department. Over 1,000 published and distributed.

"Department of Consumer Affairs Perinatal Health Care Hearings", Miller and Word Certified Shorthand Reporters, 1981. Three volumes.

"The Government Agency Body", Journal of Philosophy and Social Action, November, 1982, with Cheryl Haden.

"Policy Drift: An Evaluation of the California Business Enterprise Program", as a chapter in Dennis Palumbo and Marvin Harder, Implementing Public Policy, Toronto: Lexington Books, 1981, with Guenther Kress and J. Frederick Springer.

"Policy Drift", a paper presented at the Institute of Applied Research and Statistics, American Statistical Association, Sacramento, November, 1981.

"Managing Revenue Reductions", proceedings of a conference, May 19-20. Institute of Governmental Affairs and UC Extension, University of California at Davis, 1981, with Guenther Kress.

"Policy Drift: An Evaluation of the California Business Enterprise Program", Policy Studies Journal, Vol. 8, No. 7, 1980, with Guenther Kress and J. Frederick Springer.

"Advisory Group Participation in the California State Department of Health Decision Making Process", a paper presented at the National ASPA meeting in Baltimore, 1979, with Jannell Anderson.

"Policy Planning in a Turbulent Environment: A Management Tool for Clarifying Policy Objectives", presented at the 1978 Park and Recreation Administrators Institute, November 5, 1978. Published in proceedings.

"Employment as a Political Scientist: What the Profession Can Do", presented to Committee for Non-Affiliated Political Scientists, Western Political Science Association Convention, San Francisco, 1976.

"The Political Vision as Incantation: A Note on Shamanism", Political Theory, Spring, 1976.

"Economics, Politics, and Welfare Outcome: A Review Essay". Institute of Governmental Affairs Research Series, University of California at Davis, 1971.

"Response to Edgar Friedenber", Change in Higher Education, November, 1969.

"What is the Role of Government in the New Economy", 1996, a policy paper prepared for Senator Bill Lockyer, President pro Tempore, California Legislature. The paper is being used to guide efforts to reorganize and redirect state economic development policy making and service delivery systems.

MAJOR POLICY STUDIES AND PUBLICATIONS "Foresight for Transport," The Interdisciplinary Centre for Compative Research in the Social Science, a research panel funded by the European Union, DG Energy and Transport, June 2-7, 2002.

"Collaborating to Compete in the New Economy: An Economic Strategy for California," for the Secretary of the California Trade and Commerce Agency, February, 1996. Co-authors are: Edward Kawahara, Trade and Commerce Agency, Jim King, Applied Economics, Doug Henton, Collaborative Economics and Trish Kelly, 1996.

"The Public's View of Foreign Trade: Pragmatic Internationalism", California Research Bureau, 2001.

"A Coordinated Approach to Raising the Socio-Economic Status of Latinos in California", California Research Bureau, March 2000. With Elias Lopez.

"California Trade Policy", California Research Bureau, November 1999.

"Inventing Biological Organisms: A Reader of Selected Articles", California Research Bureau, 1998.

"Business Capital Needs in California: Designing a Program", California Research Bureau, 1998. With Rosa Moller.

"Meeting the Needs of Small and Medium Sized Manufacturers in California", California Research Bureau, June 1997.

"State Government Economic Development Programs", California Research Bureau, November, 1996.

“Bioindustry: A Description of the Biotechnology Industry and Summary of the Public Policy Issues Affecting its Development,” for the California State Legislature, California Research Bureau, April, 1996.

"Small Business Networks: Tools to Promote Economic Success," for the California State Legislature, California Research Bureau, June 28, 1995.

“The Role of Workforce Policy in Economic Development,” an issue paper for the State Job Training Coordinating Council, September 20, 1994. Co-authored with Ted Bradshaw, Institute of Urban and Regional Development, U.C. Berkeley.

"New Challenges to California State Government's Economic Development Engine," prepared for the California State Legislature, California Research Bureau, March 21, 1994.

"State Government and California University Economic Development Programs," California Research Bureau, August, 1993.

"Federal Grant Match Financing Sources," California Research Bureau, October, 1993.

"Medical Care for the Injured: The Emergency Medical Response to the April 1992 Los Angeles Civil Disturbance," a report to the Health and Welfare Agency, Emergency Medical Services Authority, February, 1993.

"A Program Evaluation of California's Regional Poison Control Centers," a report to the California Legislature, Senate Allocations and Budget Committee, February, 1992.

"The Emergency Medical Services Response to the I-5 Interstate Highway Multi-Casualty Incident" a chapter in "Task Force Report to Governor Pete Wilson, "Dust-Related Collisions, Interstate 5, Panoche Junction Over crossing/ Ave., November 29, 1991.

"The Emergency Medical Services Response to the Cantara Train Derailment," Emergency Medical Services Authority, 1991.

"Hazardous Materials Clinical Information for the Private Physician In California", Institute of Medicine, National Academy of Science, 1989.

"SARA III and AB 2185/87 Hazardous Materials Planning Requirements for the Integration, Coordination and Delivery of Emergency Medical Care," Emergency Medical Services Authority, 1989. Establishes statewide planning policies.

"Suggested Emergency Medical Services Hazardous Materials Incident Operational Plan Elements," Emergency Medical Services Authority, 1989. Establishes statewide plan elements for pre-hospital and hospital.

"A Program Evaluation of California's Regional Poison Control Centers," a report to the California Senate Allocations and Budget Committee, December, 1991.

"A Program Evaluation of California's Regional Poison Control Centers," a report to the California Senate Allocations and Budget Committee, February, 1990.

"A Program Evaluation of California's Regional Poison Control Centers," a report to the California Senate Allocations and Budget Committee, December, 1989.

"California's Regional Poison Control Centers," A Progress report to the State Legislature, June, 1988.

"The EMS Response to Flooding in the Central Valley," Emergency Medical Services Authority, 1986.

"Emergency Medical Services Dispatcher Training Guidelines," Emergency Medical Services Authority, 1986.

"Status Report on Emergency Medical Services Communications in California". California Emergency Medical Services Authority, 1985.

"California Motorist Opinion Survey: Knowledge and Opinions About Smog and Car Maintenance", California Bureau of Automotive Repair. A survey of 3,542 randomly selected motorists subject to the California Smog Check Program, 1984.

"A Programmatic Survey of Local, Government Funded Consumer Protection Agencies", California Department of Consumer Affairs, 1980.

"Mental Health Services Plan for the Golden Empire Health Services Agency, 1980-1985", California Technical Assistance Associates, 1980.

"Consumer Attitudes Toward Blood Donation and Blood Bank Administrative Costs", California Department of Consumer Affairs, 1979.

"The California Business Enterprise Program for the Blind: Performance and Prospects of a State-Administered Business", California Technical Assistance Associates, 1979. A 200 page study for the California Department of Rehabilitation.

"Study of the Issue of Rental Charges for Vendors of the California Business Enterprise Program", California Technical Assistance Associates, 1978. For the California Department of Rehabilitation.

"Management Review of the California Crippled Children Services Program", Office of Planning and Program Analysis, Department of Health Services, 1977.

"Department of Health Services Personnel Section Management Review", Office of Planning and Program Analysis, Department of Health Services, 1976.

"An Evaluation of Utility of Advisory Committees to the California Department of Health Services", Management Consultation, Department of Health Services, 1975.

"Public Participation in the Department of Health Services Regulation Adoption Process", Office of Planning and Program Evaluation, Department of Health Services, 1975.

"Facilities Construction Section: Seismic Safety, Budgeting and Management Information System Study", Management Consultation, Department of Health Services, 1975.

"Organization and Management Study of the Mental Disabilities Hospital Services Section", Management Consultation, Department of Health Services, 1975.

"New Careers Program for the Division of Administration", Management Consultation, Department of Health Services, 1975.

"Vital Statistics Section Clerical Staffing Standards and Systems Improvement Study", Management Consultation, Department of Health Services, 1974.

"Medical Audits of Prepaid Health Plans", Management Consultation, Department of Health Services, 1974.

"Elementary and Secondary Education Act of 1965, Title III, Annual Report, 1973-74". Office of Program Evaluation and Research, State Department of Education, 1974.

SELECTED INVITED LECTURERS "Business Velocity and California Trade Policy", lecture given at the South East Asia Shorenstein Forum, Asia/Pacific Research Center, Stanford University, June 13, 2000.

"Community College Economic Development Strategy," Annual Conference of the Community College Trustees, Pasadena, California, June 2, 2000.

"New Challenges to California State Government's Economic Bioindustry: A Description of California's Bioindustry and Summary of the Public Issues Affecting Its Development Engine", to a non-partisan bicameral seminar of California Senators, Assembly members and their staffs, sponsored by President Protem of the Senate Lockyer, and Democratic Majority Leader of the Senator Mello, April 13, 1994.

"Hazardous Material Response Systems for Emergency Medical Services," panel convener, and presenter, Hazardous Materials Emergencies: The Continuing Challenge," Office of Emergency Services, Sept. 10, 1992.

"Chaos and the Emergency Medical Response to a Major Disaster," Santa Clara County Emergency Managers Association, San Jose, February 21, 1992.

"The Emergency Medical Response to Hazardous Materials Incidents," presenter and panel chairmen, 1992 Hazmacon, Long Beach, February 6, 1992.

"The EMS Response to the Cantara Train Derailment Hazmat Incident," Northern California EMS Agency Yearly Meeting, September, 1991; and Region VI Local Emergency Area Planning Agency meeting, October, 1991.

"Medical Management of Hazardous Materials Victims," panel convener and speaker, "The Continuing Challenge," a conference sponsored by the Office of Emergency Services, September 5, 6, 1991.

"EMS Response to Hazardous Materials Incidents," Earthquake Preparedness Alert - Part VI: Medical Response to the Consequences of a Hazardous Materials Incident, Department of Health, County Riverside, April 5, 1991.

"The EMS System Response to Pesticide Exposures", Occupational and Environmental Medicine Symposium, U.C. Davis Medical School, June, 1987, 1988, 1989 1990.

"The EMS System Response to Hazardous Materials Incidents", California Air Resources Board Symposium on Hazardous Materials Events, April, 1988.

"The EMS System Response to Bhopal Size Disasters", California Medical Association, Scientific Convention, March, 1988.

"Emergency Medical Dispatching", Association of Public Safety Officers Convention, Sacramento, 1987.

"EMS Disaster Communications", Health Officers Association of California Annual Convention, Santa Barbara, 1987.

"A State Plan for an Emergency Medical Response to a Bhopal Size Hazardous Materials Disaster," a paper presented at HAZMAT 86 Conference, Long Beach, 1986.

"Perinatal Health Care in California", testimony presented before the Subcommittee on Fiscal Affairs and Health of the committee on the District of Columbia House of Representatives Ninety-Seventh Congress on Infant Mortality Rate Increases in the U.S. Capital and Other American Cities, March 26, 1982, Oakland, California.

SPECIALIZED
TRAINING
DEVELOPED

ED>Net: With the August Corporation, developed *e-training* for 200 project staff on how to collect performance data and report it remotely to a central data base.

Emergency Medical Hazmat Protocols and Training, Emergency for Emergency Medical Technicians and Hospital Emergency Medical Services Authority: Developed the curriculum

Disaster response training: Assisted with developing an emergency medical disaster training program for the Emergency Medical Services Authority. The program was offered at numerous conferences and major Office of Emergency Services exercises. Departments responding to hazardous materials events. Obtained \$300,000 in Federal grants to offer the program. These training materials and the program have been offered throughout California by the California Specialized Training Institute, and the University of California Extension at Davis and Los Angeles, and have been adopted other states. They have also served as core documents in national hazmat training.

Disaster Communications: Developed, staffed, and obtained \$140,000 for an emergency medical radio communication system that interfaced with state mainframe computers. Helped to design, develop and implement an emergency medical and state operations center satellite communications system.

PAST
MANAGEMENT
EXPERIENCE Research Specialist and Operations Chief, California Emergency Medical Services Authority 1984 - 1993.

Operations Manager, state emergency medical response to major disasters. Require rapid assessment of disaster and organization of response. While at the EMS Authority I planned for or responding to: earthquakes, explosions, floods, volcanic eruptions, hazardous materials releases, nuclear accidents, infectious diseases, medfly spraying, and civil disturbances. Also, I developed and implemented the emergency medical portion of the state's natural and hazardous materials disaster response program. My duties also included reviewing and drafting legislation, serving as an advocate for particular bills, and developing and presenting the Authority's policy position on hazardous materials, communications, and disaster management to federal, state, and local government entities. I chaired two advisory committees (Hazardous Material, and Communications) and served on many interdepartmental committees with the Governor's Office of Emergency Services.

Project Manager, California Department of Consumer Affairs, Smog Check Program, 1983-1984.

Served as researcher and policy advocate to the Legislature and Governor. I designed and conducted research on the effectiveness of the newly implemented Smog Check Program (for inspecting over 12 million privately owned cars) at reducing various emissions, and on its relative cost and benefits to the public, among other issues. Findings were presented to the legislature and other interested bodies.

Project Manager, California Department of Consumer Affairs, Research and Special Projects Unit, 1979-1983.

As California's only full-time consumer researcher, I identified, researched, investigated, advocate to the Legislature and Governor issues that were of critical importance to California's consumers. Subjects included utility rates resulting in a \$120 million in savings to consumers from Public Utilities Commission decision, indoor air pollution, perinatal care, the use of plastic pipe to carry potable water (successfully advocated that permeation of substances could contaminate potable water), and other issues. Findings were advocated to State and local administrative agencies, to the legislature, and a US congressional committee. I supervised four long-term special consultants. My duties also included drafting legislation and advocating for its passage.

President, Policy Resources Institute, Sacramento, California, 1984-1989.

Founder and set policy, prepared and approved budgets, and prepared research proposals on various public policy issues. The Institute merged with the public radio station KVMR in 1989. I served on the station's board for one year.

Principle Consultant, Northern California Technical Assistance Associates (formerly California Technical Assistance Associates), 1977-1985.

As a co-founder and principal consultant, I recruited and hired consultants and researchers, managed major projects and their budgets, established corporate policy, and wrote numerous successful proposals. For example, I developed a method for estimating County General Assistance Grant Levels for Northern California Rural Legal Assistance. It has been successfully used in over 20 suits by legal services agencies.

Project Manager, California Department of Health Services, Office of Planning and Program Analysis, and Management Consultation Section, 1974-1977.

Responsible for conducting policy analysis, organizational development, reorganization, staffing, procedural, program evaluation, and other studies. Provided consultation and technical support to division managers and program chiefs.

PROFESSIONAL ACTIVITIES Member of Board of Directors, California Community Colleges Association for Occupational Education, 2001-present.

Member of Board of Directors, California Association for Local Economic Development, 2001-present.

Member of Board of Directors, University of California at Los Angeles, Center for Governance, 2001-present.

Administrative Officer, Community Colleges Economic Development Advisory Committee, California Community Colleges Chancellors Office, 2001-present.

Membership Chair, International Society for the Study of Time, 2001-present.

Co-chairmen, EMS Communications Committee, Associated Public Service Communications Officers, 1992-1993.

Member, OASIS (Disaster Satellite Communications) Task Force, Office of Emergency Services, 1992-93.

Hazardous Materials Medical Guidelines Reviewer, US Centers for Disease Control, Atlanta, 1989 to 1990.

Member, "California Radiation Emergency Screening Team," Department of Health Services, 1991-1993.

Chairman, Panel on "Emergency Medical Planning Lessons Learned from the October 1989 Loma Prieta Earthquake," Western Governmental Research Association Annual Meeting, Oakland, California, March 25-27, 1990.

Chairman, Panel on "Bioevolutionary Ontology: Body, Being, and Political Action", Western Political Science Association, 1988.

Member, Office of Emergency Services, Hazardous Materials Curriculum Advisory Committee, 1987 - 1993.

Member, Office of Emergency Services, Telecommunications Task Force to Assign Emergency Radio Spectrum, 1985-86.

Emergency Medical Services Authority representative to "Earthquake Task Force," California State Office of Emergency Services (1984-87).

Discussant, Committee on Public Policy in an Era of Reintrenchment, Western Political Science Association Convention, 1984.

Antioch College, Thesis Committee member in Humanistic Psychology Program (1978-1984).

Co-Chairperson, Subcommittee on Alternative Employment, Western Political Science Association (1976-1977).

Co-Chairperson, Employee Education Committee, California State Department of Health (1975).

Co-Chairperson, Committee on Non-Affiliated Political Scientists, Western Political Science Association, (1975-1976).

PROFESSIONAL MEMBERSHIPS American Association for the Advancement of Science
American Political Science Association
American Society for Public Administration
Association for Politics and Life Sciences
International Society for the Study of Time
Society for Chaos Theory and the Life Sciences
Western Political Science Association

HONORS AND AWARDS US Small Business Administration Award recognizing a national contribution to small business development involving venture capital, 1999.

Honored by California Office of Emergency Services, for hazardous materials contributions 1991, and 1992, and for assisting with the development of a satellite based disaster communication system.

Honored by Los Angeles Emergency Preparedness Commission for disaster response planning, 1987.

National Defense Education Act Research Grant for dissertation research, 1972. National Defense Education Act Fellowship, 1971, and California State Fellowship, 1969..

Phi Sigma Alpha, 1970 (a national political science honorary society).