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EDUCATION:

- J.D., Boalt Hall School of Law, University of California, Berkeley, 2006. Completed Environmental Law Certificate. Earned American Jurisprudence award for Water Law.
- Ph.D., Civil Engineering (Energy and Environmental Planning), Stanford University, 1989. Dissertation topic: The Risk-Adjusted Cost Evaluation of Electric Resource Alternatives.
- M.S., Civil Engineering (Infrastructure Planning and Management), Stanford University, 1983. Completed coursework in Energy, Land Use, Water, and Transportation planning.
- A.B., Human Biology (Energy, Resources and the Environment: Planning and Policy), Stanford University, 1982. Studied at Stanford-in-Britain during spring quarter 1981.

AREAS OF EXPERTISE:

- Renewable energy development: regulatory policy, siting and permitting, and the economics of project development in the face of regulatory and permitting uncertainty.
- Climate change adaptation in the water sector and the ramifications of climate change for water law in the west (with a focus on rural, agriculturally-dependent irrigation systems).
- Methods for incorporating environmental factors into infrastructure systems planning, emphasizing electric utility regulation, water resources management, and hydropower.
- Social, cultural, institutional and organizational responses to the economic shift from commodity extraction to amenity-driven economic activity in western North America.
- Growth management and rural land use planning, with an emphasis on the role of place-based social movements of identity in the political dynamics of shaping spatial form.
- Landscape-scale conservation strategies and the relationship between public land and resource management efforts and private land conservation in western North America.
- International and domestic public policy factors leading to the adoption of successful environmental policy, planning, and management systems by developing countries.
- Integrating land use planning and regulation with marine ecosystem conservation planning on high volcanic islands to improve near-shore coral reef ecosystem health.

BOOKS:

Shaping the Sierra: Nature, Culture, and Conflict in the Changing West, University of California Press, 1999 (paperback, 2000; two-page summary of published reviews is attached; “Community Defender Award,” Rural Quality Coalition of Nevada County, 1999.

BOOK CHAPTERS:

“Courts, Legal Analysis, and Environmental Policy,” forthcoming in Handbook of U.S. Environmental Policy, Sheldon Kamieniecki and Michael Kraft (editors), Oxford University Press (contracted for delivery of draft chapter to editors in January 2011).

“Water, Wealth, and Watershed Health,” forthcoming in Yuba Watershed Institute Tree Rings 20th Anniversary “best of” collection, Comstock Bonanza Press Grass Valley, CA, November 2010; originally published as article in Tree Rings in Spring 1997).

“Good Politics Before Good Science? The Path to Successful Public Conservation Planning,” pp. 80-89 in Lasting Landscapes: Reflections on the Role of Conservation Science in Land Use Planning, Environmental Law Institute, Washington, D.C., March 2007.

"Community Participation in Ecosystem Management," pp. 161-175 in Lowney, Skip and John D. Landis (editors), 50 Years of City and Regional Planning at UC Berkeley: A Celebratory Anthology of Faculty Essays, NSQ Press, Berkeley, May 1998.

JOURNAL ARTICLES:

“Greening the Grid in California,” forthcoming in Natural Resources & Environment special issue on “Bellwether States,” American Bar Association Section on Environment, Energy, and Resources Law, Fall 2010.

“Increasing the Public Benefits of Agricultural Conservation Easements: An Illustration with the Central Valley Farmland Trust in the San Joaquin Valley,” forthcoming in Journal of Environmental Planning and Management, Fall 2010.

“Comparing the Conservation Effectiveness of Private Water Transactions and Public Policy Reforms in the Conserving California Landscapes Initiative,” forthcoming in Water Policy 12, Fall 2010 (with Jeff J. Opperman).

“Greening the Grid: Implementing Climate Change Policy Through Energy Efficiency, Renewable Portfolio Standards, and Strategic Transmission System Investments,” Vermont Law Review 34 (2): 711-780, Summer 2010.

“Grizzly Bears, Gray Wolves and Federalism, Oh My! The Role of the Endangered Species Act in De Facto Ecosystem-Based Management in the Greater Glacier Region of Northwest Montana,” Journal of Environmental Law and Litigation 24 (2): 289-366, Winter 2010 (with Lara D. Guercio).

“Easement Exchanges for Agricultural Conservation: A Case Study Under the Williamson Act in California,” Landscape Journal 28 (2): 181-197, Fall 2009 (with Brendan Stewart).

- “Growing Green Communities: Infrastructure Development and the Environment,” Keynote Address, Vermont Journal of Environmental Law, 10 (2): 379-392, Spring 2009.
- “Reducing Greenhouse Gas Emissions from Vehicle Miles Traveled: Integrating the California Environmental Quality Act (CEQA) with the California Global Warming Solutions Act (AB 32),” Ecology Law Quarterly 36 (1): 71-135, April 2009 (with Joanna D. Malaczynski).
- “Incorporating Complex Adaptive Systems Theory into Strategic Planning: The Sierra Nevada Conservancy,” Journal of Environmental Planning and Management 51 (1): 141-162, January 2008 (with Tanya L. Higgins).
- “Regulation’s Rationale: Learning from the California Energy Crisis,” Yale Journal on Regulation 19 (2): 471-540, Summer 2002.
- "Natural Capital and Quality of Life: A Model for Evaluating the Sustainability of Alternative Regional Development Paths," Ecological Economics 30 (3): 441-460, September 1999, (with Cecilia Collados).
- "Community Participation in Ecosystem Management," Ecology Law Quarterly 24 (4): 771-797, December 1997.
- "Managing the Sierra Nevada," in John J. Kirlin (ed.), California Policy Choices 8: 169-194, USC School of Public Administration, Sacramento, CA, January 1993.
- "Environmental Planning and Policy in a Post-Rio World," Berkeley Planning Journal 7: 27-47, Department of City and Regional Planning, University of California, Berkeley, CA, December 1992.
- "Electricity Regulation Reform," in John J. Kirlin and Donald R. Winkler (eds.), California Policy Choices 6, USC School of Public Administration, Sacramento, CA, November 1990.
- "Diversification in Energy Production," in John J. Kirlin and Donald R. Winkler (eds.), California Policy Choices 4, USC School of Public Administration, Sacramento, CA, December 1988 (with Lyna L. Wiggins and Allen L. Brown).

PEER-REVIEWED REPORTS:

- "Human Settlement, 1850-2040" in Sierra Nevada Ecosystem Project, Final Report to Congress, Volume II (Assessment and Scientific Basis for Management Options), Chapter 11, Wildland Resources Center Report No. 36, University of California, Davis, June 1996, pp. 235-360.
- "Recreation in the Sierra Nevada," in Sierra Nevada Ecosystem Project, Final Report to Congress, Volume II (Assessment and Scientific Basis for Management Options), Chapter 19, Wildland Resources Center Report No. 36, University of California, Davis, June 1996, pp. 557-609.

CONFERENCE PROCEEDINGS:

"Nature, Culture, and Conflict in the Changing West: Implications for Mountain Governance," in Leslie Taylor and Anne Ryall (eds.), Governance and Decision-Making in Mountain Areas. Banff, AB, Canada: The Banff Centre. Proceedings of a conference held June 4-8, 2005, pp. 79-85.

"Successes and Challenges: Managing Growth in the Sierra Nevada," in Leslie Taylor and Anne Ryall (eds.), Sustainable Mountain Communities: Environmental Sustainability for Mountain Areas Impacted by Tourism and Amenity Migration. Banff, AB, Canada: The Banff Centre. Proceedings of a conference held June 14-18, 2003, pp. 11-18.

OTHER TECHNICAL REPORTS:

Economics of Critical Habitat Designation and Species Recovery: Consensus Statement of a Workshop Sponsored by the Pacific Rivers Council, Environmental Studies Program at San Francisco State University, Ecotrust, and the National Center for Conservation Science and Policy; Eugene, OR: Pacific Rivers Council, October 2008 (lead author with Gary Carnefix, Sudip Chattopadhyay, Carlos Davidson, Dominick A. DellaSala, John Duffield, Christopher Frissell, Marc P. Hayes, Mark Jennings, Joe Kerkvliet, Gretchen LeBuhn, Pete Morton, Ernie Niemi, Deanna Spooner, and Matt Weber).

Land Use Planning to Promote Marine Conservation of Coral Reef Ecosystems in Moorea, French Polynesia. Berkeley, CA: Department of Landscape Architecture and Environmental Planning, April 2006 (with Shay Boutillier).

Agricultural Conservation Easements in the Central Valley: Near-term challenges and opportunities. A research project for the Central Valley Farmland Trust. Berkeley, CA: Boalt Hall School of Law, January 2006 (with Sasha Gennet and Rachel Peterson).

External Evaluation of the Conserving California Landscapes Initiative (CCLI), prepared for the Conservation Program of the David and Lucile Packard Foundation, Los Altos, CA, August 2003.

Trends in Electricity Consumption, Peak Demand, and Generating Capacity in California and the Western Grid, 1977-2000, Program on Workable Energy Regulation (POWER) Working Paper (PWP) 085, University of California Energy Institute, Berkeley, CA, September 2001 (with Jolanka V. Fisher). Prepared under a contract with the California Public Utilities Commission, San Francisco, CA.

Final Report of the California Spotted Owl Federal Advisory Committee (Evaluation of the "Revised Draft Environmental Impact Statement (RDEIS) Managing California Spotted Owl Habitat in the Sierra Nevada National Forests of California"). Pacific Northwest Research Station, United States Department of Agriculture, Portland, OR, December 1997. Member of Federal Advisory Committee appointed by the Secretary of Agriculture.

Sierra Nevada Ecosystem Project: Final Report to Congress. Volume I (Assessment Summaries and Management Strategies). Wildland Resources Center Report No. 36, University of California, Davis, June 1996. Special consultant and co-author of sections on institutions, human settlement, regional economies, community well-being and management scenarios.

Dam Mitigation in California, prepared for Parsons Polytech, Inc. for the Water Resources Environment Technology Center, Ministry of Construction, Government of Japan, Tokyo, Japan, March 1996.

Visitor Characteristics and Recreational Activities in the Mammoth Lakes and Mount Whitney Complex of the Inyo National Forest, prepared for the Inyo National Forest, Bishop, CA, January 1996 (with Jennifer L. Knauer).

The Sierra Now: A Vision for the Future, Report from the Sierra Now Conference (held in Sacramento, CA in August 1992), Environment Now, Malibu, CA, January 1993. Co-author of "Urbanization and Local Economic Development" section with Bill Center and Steering Committee reviewer of other sections of the report.

Urbanization and Local Economic Development: Strategies for a Sustainable Sierra Nevada, Sierra Now, Sacramento, CA, July 1992.

Emerging Environmental Trends: Impacts on PG&E in 10-20 Years, Technical Report: Pacific Gas and Electric Company, Research and Development Department, San Ramon, CA, October 1990.

"Electric Utility Industry Structure and Regulation," April 1990, in Ren Orans, Joel N. Swisher, and Tim Duane, Some Lessons Learned from the History of the Electric Utility Industry in the U.S., Technical Report: U.S. Department of Energy (Lawrence Berkeley Laboratory), Energy and Environmental Economics, San Francisco, CA, May 1990.

Energy Efficiency and the Global Environment, distributed in both English and Russian at the Global Forum on Environment and Development in Moscow, USSR., International Foundation for the Survival and Development of Humanity, San Francisco, CA (also Moscow, USSR and Washington, D.C.), January 1990 (with Bill Keepin).

OTHER TECHNICAL PRODUCTS:

Geographic Information System (GIS) of the Cosumnes River Watershed, California (prepared for The Nature Conservancy of California), 1993.

DOCTORAL DISSERTATION:

The Risk-Adjusted Cost Evaluation of Electric Resource Alternatives, Ph.D. Dissertation, Resources Planning Program, Department of Civil Engineering, School of Engineering, Stanford University, June 1989 (Committee: Lyna Wiggins, Gilbert Masters and James Sweeney).

BOOK REVIEWS:

- “Mojave Lands: Interpretive Planning and the National Preserve,” by Elisabeth M. Hamin, Journal of the American Planning Association, 71(3): 346, Summer 2005.
- “Transforming California: A Political History of Land Use and Development,” by Stephanie S. Pincetl, Landscape and Urban Planning 52: 64-65, Spring 2001.
- “Green Urbanism: Learning from European Cities,” by Timothy Beatley, Journal of the American Planning Association 66 (4): 450-451, Autumn 2000.
- “When City and Country Collide: Managing Growth in the Metropolitan Fringe,” by Tom Daniels, Landscape and Urban Planning 45: 57-58, December 1999.
- “The Green Imperative: Natural Design for the Real World,” by Victor Papanek, Traditional Dwellings and Settlement Review VIII (II): 82, Spring 1997.

NEWSLETTER ARTICLES:

- “Water, Wealth and Watershed Health,” Tree Rings Ten, Yuba Watershed Institute, North Columbia, CA, Spring 1997.
- “The Environmental Costs of Electricity Generation,” Sierra Club Energy Report, San Francisco, CA, Summer 1990.
- “California Competition: Electricity in the 1990s,” Sierra Club Energy Report, San Francisco, CA, Summer 1989.

TEACHING EXPERIENCE:

Associate Professor (2009-present), Department of Environmental Studies, University of California, Santa Cruz:

Environmental Law and Policy; Energy Policy; Senior Seminar; PhD Seminar.

Associate Professor (2008-present), Vermont Law School:

Advanced courses: Land Use Regulation, Advanced Land Use, and Administrative Law; Fellow, Land Use Institute; supervised Advanced Writing Requirement for nine students.

Assistant Professor (1991-1999) and Associate Professor (1999-2009), Energy and Resources Group, Department of City and Regional Planning, and Department of Landscape Architecture and Environmental Planning, University of California, Berkeley, 1991-2009 (continuing affiliation with Energy and Resources Group):

Graduate courses: Environmental Law and Resource Management, Environmental Planning and Regulation, Infrastructure Planning and Policy, The Process of Environmental Planning, Natural Factors and the Design Process, Environmental Impact Assessment, Water and the California Landscape, Sustainable Communities, Environmental Planning Studio, and Doctoral Seminar on Environmental Planning.

Guest Lecturer, Resources Planning Program, Department of Civil Engineering, Stanford University, 1984-1988:

Graduate energy planning and facilities siting courses on policy models, utility regulation, electric utility system planning, and integration of independent energy producers into electric utility systems planning.

Adjunct Lecturer, Program in Urban Studies, Stanford University, 1986-1987:

Development of new course on Microcomputers in Resources Planning, cross-listed with the Civil Engineering Department for graduate students in the Resources Planning Program.

Research Assistant and Teaching Assistant, Resources Planning Program, Department of Civil Engineering, Stanford University, 1985-1986:

Development of new course on Microcomputers in Urban and Environmental Planning; testing of new planning applications software.

Teaching Assistant, Infrastructure Planning and Management Program, Department of Civil Engineering, Stanford University, 1982-1983:

Small-Scale Energy Systems (Prof. Gil Masters) and Introduction to Urban Planning (Prof. Lyna Wiggins) courses; jointly developed new curriculum for new course on Community Energy Planning (Prof. Gilbert Masters).

BOARDS OF DIRECTORS:

Skyfuel, Inc., Albuquerque, NM, 2007-2009:

Privately-held Concentrating Solar Power (CSP) start-up company developing innovative utility-scale solar power project technology in the southwestern United States.

Marin Conservation League, San Rafael, CA, 2001-2003:

Secretary and member of Executive Committee and Land Use Committee of Marin County's premiere environmental organization (first established in 1934).

Common Ground Communities, Nevada City, CA, 1995-1997:

Non-profit affordable housing corporation providing affordable housing through mixed-income, environmentally sensitive site designs; the organization received planning approvals for and began developing a \$5.7 million, 42-unit clustered mixed-income "sweat equity" project on 34 acres near Nevada City, CA during my term on the board.

CONSULTING EXPERIENCE

Pacific Rivers Council, Eugene, OR, 2007-2008:

Facilitation of a two-day workshop of 40 experts on the relationship between economic analysis and the Critical Habitat designation process under the Endangered Species Act; lead author for development of consensus statement summarizing key recommendations.

The David and Lucile Packard Foundation, Los Altos, CA, 2002-2003:

Evaluation of the Conserving California Landscapes Initiative (CCLI), a five-year, \$291-million effort in the Central Coast, Central Valley, and Sierra Nevada regions of the state; supervised team of four researchers to develop detailed assessment of program efficacy.

California Resources Agency and California Energy Commission, Sacramento, CA, 2001:

Analysis of PG&E's bankruptcy Plan of Reorganization (POR) and strategic analysis of opportunities to protect public trust values for environmental resources in California.

California Public Utilities Commission, San Francisco, CA, 2000-2001:

Analysis of market power and environmental impacts associated with the proposed divestiture of Pacific Gas and Electric Company's hydroelectric system and lands; EIR preparation, testimony, and policy analysis of proposed changes to electric market restructuring by FERC, CPUC, and Legislature; investigation into causes of outages.

Public Policy Institute of California, San Francisco, CA, 1999-2001:

Research design for projects on Central Valley land use and a state-wide assessment of land use, environmental, resource management, and energy issues in California.

Foundation for American Communications (FACS), Pasadena, CA, 1999-2001:

Academic advisor for development of a curriculum on land use for journalists, including web site and conference content development; workshop presentations to journalists.

Soames Summerhays Films, San Diego, CA, 1997-1999:

Technical advisor for an IMAX film on Yosemite National Park.

Water and Environment Technology Center, Ministry of Construction, Government of Japan (with Parsons Polytech, Inc., Tokyo, Japan), 1996:

Review of dam mitigation measures in the United States and development of an infrastructure planning process designed to incorporate environmental considerations. Detailed case studies of Auburn Dam and projects proposed by the East Bay Municipal Utility District and the City of Santa Rosa. Supervised sub-contracts on chapters (many of the recommendations were echoed by the World Commission on Dams in 2000).

Western States Petroleum Association (with Energy and Environmental Analysis, Inc., Arlington, VA), 1995:

Review and critique of an analysis of population and demographic projections used for air quality modeling in the South Coast Air Quality Management District.

Batam Industrial Development Authority, Government of Indonesia (with PRC Environmental Management, San Francisco, CA), 1993-1994:

Evaluation of proposal and research recommendations for the Barelang Master Environmental Plan Project (three islands); development of analytic methods for multi-attribute decision analysis evaluation of alternative economic development strategies.

Environment Now, Malibu, CA, 1992:

Research on demographic and economic changes in the Sierra Nevada region, in preparation for presentations at the Sierra Now conference. Analysis of 1970-1990 Census data and patterns of urbanization. Analysis of historical demand for recreation on both public and private lands.

Earth Action International, Brussels, Belgium, 1991:

Field research on the feasibility of establishing a new international advocacy group on environment and development; field interviews with representatives from non-governmental organizations in New Zealand, Australia, Indonesia, Malaysia and Thailand.

Coalition for Energy Efficiency and Renewable Technologies (representing the Sierra Club, Natural Resources Defense Council, U.S. Windpower, California Energy Company, Luz International, Portland Energy Conservation Services, Sycom, and TGAL), Sacramento, CA, 1990-1991:

Expert testimony before the California Public Utilities Commission and the California Energy Commission regarding incorporation of environmental and resource diversity values into electric utility resource planning, energy and capacity payments, and siting review for demand conformance tests.

California Energy Company, San Francisco, CA, 1990-1991:

Expert testimony before the Public Service Commission of Nevada regarding establishment of preferences for geothermal and other renewable technologies, through development of a multi-attribute analytic methodology for consideration of environmental and resource diversity benefits.

Shell Oil Company (with Global Business Network, Emeryville, CA), 1990:

Overview of California state environmental policy, key issues before state regulators and legislators, possible impacts on energy development, and environmental and infrastructure implications of South Coast Air Quality Management District proposals on corporate strategy in California markets.

U.S. Department of Energy, Washington, D.C, and Electric Power Research Institute, Palo Alto, CA, (with Lawrence Berkeley Laboratory, Berkeley, CA and Energy and Environmental Economics, San Francisco, CA), 1990:

Analysis of and preparation of report on U.S. "Electric Utility Industry Structure and Regulation" for international distribution to energy planners, managers and regulators.

International Foundation for the Survival and Development of Humanity, San Francisco, CA, 1989-1990:

Preparation of Energy Efficiency and the Global Environment for distribution at the Global Forum on Environment and Development for Survival (Moscow, USSR); participation in Energy Efficiency workshops as a session chairman at the Global Forum in Moscow; served as a technical resource for other workshops with parliamentarians and spiritual leaders from throughout the world.

Natural Resources Defense Council (NRDC), San Francisco, CA, 1988 and 1990:

Testimony before the California Public Utilities Commission on integrating environmental impacts and other "non-price factors" into new resource evaluation criteria for California utilities; additional work through the Coalition for Energy Efficiency and Renewable Technologies (CEERT) as an expert witness (NRDC was a founding member of CEERT in 1990).

Research and Development Department, Pacific Gas and Electric Company, San Ramon, CA, 1989-1990:

Preliminary analysis of impact of emerging environmental trends on Research and Development programs, resource planning, and customer needs. Extensive literature review, consultation with outside experts, and report preparation; report served as the foundation for a related strategic planning effort with senior PG&E management team.

City of Redding Municipal Utility, Redding, CA (with Henwood Associates, Sacramento, CA), 1989:

Development of a financial analysis model for capital budgeting, rate design and regulatory review associated with power project proposals; submitted to California Energy Commission in Electricity Report 90 proceeding.

U.S. Agency for International Development, Lahore, Pakistan (with Energy Resources International, Sausalito, CA), 1989:

Preliminary field assessment of Strategic Planning system needs for Water and Power Development Authority of Pakistan (WAPDA); project planning, budgeting and field interviews with WAPDA and USAID officials.

Development, Innovation, Technology Transfer, Nevada City, CA, 1987-1988:

Strategic assessment of California electric utility system requirements and new hydroelectric project economic feasibility; overview of California regulatory process; resource assessment for specialized technologies.

Northwest Power Company, San Francisco and Nevada City, CA, 1985-1988:

Strategic planning, new technology assessment, risk and economic analysis, power contract negotiations with utilities, regulatory monitoring, and expert testimony before the California Energy Commission, the California Public Utilities Commission, the Federal Energy Regulatory Commission, and a joint panel of state regulatory commissioners.

Pacific Lighting Energy Systems, Commerce (with Lyna Wiggins), CA, 1986:

Testimony before the California Energy Commission critiquing a model forecasting qualifying facilities project development rates; recommendations resulted in significant changes to original LOGIT model specification.

Industrial Indemnity Financial Corporation, San Francisco, CA, 1986:

Projection of hydroelectric project generation and revenues, with detailed economic risk analysis for bondholders; the results of the analysis led to significant changes in the company's portfolio position of energy project bond holdings and several million dollars of savings.

Generation Planning Department, Pacific Gas and Electric Company, San Francisco, CA, 1985-1986:

Development of a new methodology for forecasting qualifying facilities project development under the Public Utilities Regulatory Policies Act of 1978; preparation of written testimony for presentation before the California Public Utilities Commission.

PROFESSIONAL EMPLOYMENT:

Generation Planning Engineer, Commercialization of Alternative Technologies Section, Generation Planning Department, Pacific Gas and Electric Company, San Francisco, CA, 1983-1984:

Contract negotiation, project management, hydrologic and financial model development for small hydro, wind, and solar group. Company-wide policy analysis and planning for all independently-owned cogeneration and renewable energy projects. Development of a new company-wide database and organizational structure for administering independent power contracts.

Research Assistant, Professor Lyna L. Wiggins, Department of Civil Engineering, Stanford University, 1982-1983:

Analysis of new Federal Energy Regulatory Commission regulations on bulk power market deregulation; development of research grant proposals.

Assistant City Planner, City of Grass Valley, Grass Valley, CA, 1982:

Analysis of new General Plan (population 8,000), new annexation proposals, local growth pressures, infrastructure expansion needs and costs, and development impact fees; also local community energy strategies and possible programs to increase local energy self-sufficiency.

Technical Assistant, City of Palo Alto Municipal Utility, Palo Alto, CA, 1980:

Development of microcomputer software for analysis of residential solar energy options through Residential Conservation Service energy audit program; review of customer conservation information program.

Engineering Trainee, Solar Unit, Energy Conservation and Services Department, Pacific Gas and Electric Company, San Francisco, CA, 1980:

Development of swimming pool heat loss analysis software for use by energy auditors in the field; program planning and policy analysis for Residential Conservation Service.

Technical Assistant, Solar Power Systems Company, Grass Valley, CA, 1979:

Design, installation, monitoring and development of active and passive low-temperature solar systems for residential and commercial applications.

Assistant Fire Dispatcher, Tahoe National Forest, Nevada City, CA, 1978:

Communications, weather computer, and information systems management for central fire management center; initial attack and logistics management during the largest fire in Tahoe National Forest history (requiring assistance from several thousand firefighters and over one hundred aircraft).

PUBLIC SERVICE:

(Also on the Boards of Common Ground Communities and the Marin Conservation League)

Advisory Council, Saving the Sierra radio program, Nevada City, CA, 2005-2008:

Advise program producers on content for radio program syndicated on public radio.

United States Geological Survey, Olympic Park Institute, WA, November 2005:

Keynote presentation on “When and Why Modeling Matters in Public Policy” to the first-ever national all-USGS modeling conference.

Yosemite National Park senior management retreat, South Lake Tahoe, CA, June 2002:

Presentation and facilitation of half-day workshop on the changing planning context for the Sierra Nevada, California, and public land and resource management agencies in the western United States; development of an analytical model for public participation.

California Resources Agency and the California Environmental Protection Agency, Sacramento, CA, February 2002:

Presentation on “Institutions and Climate Change: Lessons from the California Energy Crisis in 2000-2001” in a special workshop for senior California state agency managers.

External Reviewer, Western Resources Program, Environmental Defense, Oakland, CA, 2000:

Member of four-person external review team of program scope and strategic direction; keynote speaker at opening session on the future of California and environmental policy.

Participant, Urbanization in the Central Valley workshop, The Great Valley Center (Modesto, CA) and the Lincoln Institute for Land Policy (Cambridge, MA), 1999:

Member of a small group of urban designers, academics, policy analysts, and stakeholders charged with exploring alternative urbanization scenarios.

Member, California Spotted Owl Federal Advisory Committee, 1997:

Member of eleven-person scientific committee appointed by the U.S. Secretary of Agriculture to evaluate the USDA Forest Service's proposed Revised Draft Environmental Impact Statement (RDEIS) for a California Spotted Owl management strategy on 11 million acres of federal forests in the Sierra Nevada.

Advisory Council, South Yuba River Citizens League, Nevada City, CA, 1995-1997:

Non-profit organization dedicated to protection of the South Yuba River; technical advice on environmental and land use planning and policy issues (the South Yuba was granted Wild and Scenic status through state legislation in 1999).

Speakers Bureau on Global Warming and Sound Science Initiative, Union of Concerned Scientists, Cambridge, MA, 1989-1997:

Participation in public education on global warming and alternative global energy strategies; technical resource on renewable energy; lecture at the Oakland Museum.

Awards Juror, Sierra Chapter, American Society of Landscape Architects, 1996:

Evaluated and critiqued submissions for a special awards program for any ASLA member or any project proposed in the Sierra Chapter area.

Technical Advisory Panel, "Sierra in Peril" television documentary, KVIE-TV Channel 6 (PBS affiliate), Sacramento, CA, 1994:

Reviewed script for technical accuracy and recommended modifications to proposed program structure; interviewed by producers and quoted in final broadcast of documentary.

Advisory Council, Sierra Nevada Alliance, Sacramento, CA, 1993-1994:

Technical and policy advising to non-profit coalition of environmental organizations working on protection of the Sierra Nevada Bioregion.

Nevada County, El Dorado County, and Mono County Planning Department staff and/or members of Boards of Supervisors, 1991-1994:

Informal advising of specific staff and/or board members on land use and environmental planning issues related to updating county General Plans.

Sierra Now Steering Committee, San Francisco and Malibu, CA, 1991-1993:

Development of substantive content and panel format for state-wide conference on environmental issues in the Sierra Nevada mountains, attended by over 400 people in Sacramento, CA. Task Force/Panel Co-Chair for "Urbanization and Local Economic Development" issues.

Cities of Oakland and Berkeley, CA, 1991-1992:

Committee Member on the Infrastructure Task Force of the East Bay Fire Recovery Team, advising city managers, mayors and city councils on policies to address restoration of infrastructure systems following fire.

Member, Sierra Club Energy Committee and Task Force on Global Warming, San Francisco, CA, 1989-1990:

Technical member, evaluating proposed legislation and Sierra Club policy position papers; article preparation for *Sierra Club Energy Report*.

Northwest Power Planning Council (NPPC), Portland, OR, 1987-1988:

Member of technical review committee for evaluation of resource plans and analysis of the NPPC Western Electricity Study reports on regional energy systems; analysis of California and Pacific Northwest energy markets.

International Development Exchange (IDEX), San Francisco, CA, 1987-1988:

Evaluation of international development project proposals and IDEX meeting facilitation for a small, non-profit development organization.

Stanford Energy Action, Stanford, CA, 1979-1982:

Analyst and Chairman of volunteer energy policy committee, evaluating Stanford University energy options and proposing new energy policies.

UNIVERSITY SERVICE:

Executive Committee, Environmental Law Section, Association of American Law Schools, 2009-present:

Member of committee responsible for organizing section activities and conference; scheduled to be one of tour field trip tour guides of California Delta in January 2011.

Steering Committee, Center for Fire Research and Effective Outreach, College of Natural Resources, University of California, Berkeley, CA, 2006-2008:

Member of campus-wide committee for establishing policy and research direction for new center to coordinate all fire-related natural resources research on campus.

Faculty Advisory Board, undergraduate Environmental Sciences major, University of California, Berkeley, CA, 1999-2008:

Member of campus-wide committee for reviewing and coordinating inter-college curriculum for undergraduate Environmental Sciences major.

Executive Committee, Pacific Rim Research Program, University of California Office of the President, 2006-2008:

Berkeley's representative to a UC system-wide committee for establishing policy and allocating research grants for a program eligible to all UC faculty and graduate students.

Chancellor's Advisory Committee on Sustainability, University of California, Berkeley, CA, 2003-2004:

Member of campus-wide committee for reviewing and coordinating campus sustainability efforts; member, Campus Assessment and Long-Range Development Plan subcommittees.

Ciriacy-Wantrup Postdoctoral Fellowship Advisory Committee, University of California, Berkeley, CA, 1999-2001:

Member of campus-wide committee for selecting post-doctoral fellows in environmental and resource economics, policy, and management; mentor for Dr. Rohan D'Souza.

Executive Committee, Environmental Council, University of California, Berkeley, CA, 1997-1998:

Member of campus-wide committee for coordinating environmental programs and faculty appointments on the Berkeley campus.

Policy Board, Wildland Resources Center, University of California, Davis, CA, 1995-1998:

Policy advisor for UC system-wide research center for all 9 UC campuses; conducted annual review of funding and budget, publications, and future research programs.

Jasper Ridge Biological Preserve, Department of Biology, Stanford University, 1979-1983:

Volunteer Docent (tour guide) for 1300-acre research and educational Preserve and member of Preserve planning and management committee; author of first social history of land use on and near the Preserve.

Committee on Land and Building Development, Stanford University, 1980-1982:

Member of internal "planning commission" with responsibility for review of all development proposals for over 8,000 acres in the Palo Alto area, including academic, industrial, commercial, residential and recreational facilities.

EXPERT TESTIMONY:

Assembly Committee on Water, Parks and Wildlife, California Legislature, 2007:

Participant in an expert roundtable discussion to develop new legislation (adopted) to address floodplain development issues in the Sacramento-San Joaquin Delta region.

California Research Bureau, California State Library, Sacramento, CA; and Institute for Governmental Studies, University of California, Berkeley, CA, 2001-2002:

Expert testimony regarding the relationship between electricity demand, in-state generating capacity, import capacity, market structure, system reliability, and the feasibility of various supply and demand alternatives to meet projected shortfalls (presentations in both January and July to key legislative and executive branch staff).

Senate Office of Research, California Legislature, 2001:

Participant in an expert roundtable discussion on the California Energy Crisis for key legislative and executive branch staff.

Senate Select Committee on Forestry, California Legislature, 2001:

Expert testimony regarding the social, economic, and cultural changes occurring in the Sierra Nevada over the past three decades and the implications of such changes for state timber harvest practices; specific focus on the impact of clear-cutting on local well-being.

Assembly Committee on Environmental Toxics and Public Safety, California Legislature, 2001:

Expert testimony regarding the relationship between electricity demand, in-state generating capacity, import capacity, market structure, system reliability, and the feasibility of various supply and demand alternatives to meet projected shortfalls; additional testimony on the social and environmental costs of such alternatives.

California Public Utilities Commission, 2000:

Expert testimony regarding implementation of the California Environmental Quality Act in the issuance of Certificates of Public Convenience and Necessity for the development of telecommunications services.

Milton Marks Commission on California State Government Organization and Economy ("Little Hoover Commission"), 1996:

Advisory panel member and expert witness regarding electric utility industry restructuring and reorganization of the regulatory functions of the California Public Utilities Commission and the California Energy Resources Conservation and Development Commission; focus of testimony was on the need to maintain centralized planning and reliability functions during any transition from a regulated to a deregulated market.

Milton Marks Commission on California State Government Organization and Economy ("Little Hoover Commission"), 1995:

Expert testimony regarding the Governor's Reorganization Plan Number 1 for consolidation of functions related to energy policy and waste management policy in the California Energy Resources Conservation and Development Commission, the California Integrated Waste Management Board, the California Department of Conservation and the State Lands Commission.

California State Water Resources Control Board, 1995:

Expert testimony for the California Sportfishing Alliance calling for the consideration of watershed restoration and management fees in association with a petition by the California Department of Water Resources and the United States Bureau of Reclamation to alter existing water rights.

Public Service Commission of Nevada, Docket 89-752, 1990-1991:

Development of criteria for granting preferences to geothermal, wind and solar technologies offering economic, resource diversity and environmental benefits; recommendations on contract structure for geothermal projects; analysis of economic development impacts on Nevada state economy and local regions where projects are located.

California Public Utilities Commission, Docket I. 89-07-004, 1989-1990:

Development of new resource selection processes, contract structure, risk allocation, integration with utility systems and valuation of non-price factors (e.g., environmental, resource diversity and technology development benefits) for payments under long-term standard offer contracts for non-utility power plants selling power to publicly-regulated utilities.

California Energy Resources Conservation and Development Commission, Docket 88-ER-8, 1990:

Development of multi-attribute utility resource planning, resource selection, and siting approval criteria; policy recommendations for resource planning and evaluation structure for demand conformance tests.

California Legislature, Joint Committee on Energy Regulation and the Environment, 1990:

Assessment of need to develop new regulatory system organization to promote more efficient policy; recommendations for specific reorganization of regulatory agency structure; background paper on related policy issues.

California Public Utilities Commission, Docket A. 82-04-044, et al. (OIR-2), 1983-1989:

Qualifying Facility contract structure, planning methodology, modelling conventions, integration with utility systems, pricing issues, and incorporation of non-price factors into resource evaluation methodology.

California Energy Resources Conservation and Development Commission, Docket 87-ER-7, 1987-1989:

Participation in staff workshops, developing techniques for the assessment of uncertainty and risk in electric utility resource planning. Critique of CEC proposal resulted in significant modifications to improve methodologies.

California Energy Commission and California Public Utilities Commission, Joint Hearings on Excess Electrical Generating Capacity (SB 1970), 1987:

Assessment of sources of "Excess Capacity" and proposal for innovative economic solution through ratepayer-financed incentives for deferrals of new project completion for non-utility projects until economically viable.

Federal Energy Regulatory Commission, various hydroelectric project licensing cases, 1985-1987:

Analysis of demand forecasts and uncertainty in the need for new resources in California; overview of regulatory framework for utility system planning.

California Energy Resources Conservation and Development Commission, Docket 86-ER-6, 1986:

Critique of a model forecasting development of Qualifying Facilities "Likely to Be Available;" successful petition to release project development data.

JOURNAL REVIEWER:

- *Journal of the American Planning Association*
- *Landscape and Urban Planning*
- *Planning Practice and Research*
- *Journal of Environmental Planning and Management*
- *Journal of Urban Design*
- *Conservation Biology*
- *Ecological Economics*
- *San Francisco Estuary and Watershed Science*
- *Geojournal*

RESEARCH PROPOSAL REVIEWER:

- California Policy Seminar
- University of California Energy Institute
- David and Lucile Packard Foundation
- Austrian Science Foundation

BOOK/REPORT REVIEWER:

Wolters Kluwer/Aspen Publishers, 2008:

Review of Jonathan Nash's draft manuscript for an overview of Environmental Law.

University of Washington Press, 2007:

Review of John Miles' draft manuscript *Playground or Preserve: Wilderness and the National Parks*.

Landscape Architecture Foundation and Island Press, 2006:

Review of Jack Ahern, Elizabeth Leduc, and Mary Lee York's draft manuscript *Biodiversity Planning and Design: Sustainable Practice*.

- Pacific Rivers Council, 1999-2003:
Review of Sierra Nevada reforestation and restoration economics study.
- University of California Press, Berkeley, CA, 1999:
Review of David Beesley's draft manuscript *The Sierra Nevada: An Environmental History* (subsequently published by the University of Nevada Press in 2004).
- Island Press, Washington, DC, 1998:
Review of Sheila Peck's completed book *Planning for Biodiversity*.
- University of California Press, Berkeley, CA, 1997:
Review of Ernest Callenbach's draft manuscript *Ecology for Everyone*.
- Sierra Club California, Oakland, CA, 1996-1998:
Review of Sierra Nevada Forest Economics and reforestation project RFP, evaluation of proposals and technical advice on research project.
- Sierra Business Council, Truckee, CA, 1995-1997:
Review of "Planning for Prosperity" study RFP and draft report.
- Island Press, Washington, DC, 1994-1995:
Review of Thomas Michael Power's draft manuscript *Lost Landscapes and Failed Economies: The Search for a Value of Place*.
- Natural Resources Defense Council, San Francisco, CA, 1994-1995:
Review of Sierra Nevada Economic Study RFP and draft report.

CONFERENCE PRESENTATIONS:

- Panel organizer and moderator, "Greening the Grid: Implementing Climate Change Policy Through Energy Efficiency, Renewable Portfolio Standards, and Strategic Transmission System Investments," Public Interest Environmental Law Conference, University of Oregon, Eugene, OR, February 2010.
- Keynote speaker, Vermont Planning Commissioners Retreat, Vermont Law School, May 2009.
- Panel member, *JAM Golf LLC v. South Burlington*: Lessons for Vermont Communities Symposium, Vermont Law School, March 2009.
- Keynote speaker, Growing Green Communities: Infrastructure Development and the Environment Symposium, Vermont Law School, February 2009.
- "Maximizing the Public Benefits of Agricultural Conservation Easements," Agriculture at the Metropolitan Edge conference, Berkeley, CA, April 2007.
- "Maximizing the Public Benefits of Agricultural Conservation Easements," Great Valley Center conference, Sacramento, CA, May 2006.
- "When and Why Modeling Matters in Public Policy," Keynote Speaker, United States Geological Survey Modeling Conference, Olympic Park Institute, WA, November 2005.

- “Nature, Culture, and Conflict in the Changing West: Implications for Mountain Governance,” Governance and Decision Making in Mountain Areas, The Banff Centre, Banff, AB, Canada, June 2005.
- “Building a Vision for California’s Forests: Three Challenges and Opportunities,” Keynote Speaker, California Forest Futures Conference, Sacramento, CA, May 2005.
- “Strategic Opportunism in Conservation: Lessons from the Conserving California Landscapes Initiative,” Association of Collegiate Schools of Planning, Portland, OR, October 2004.
- “Integrating Climate Science and Resource Management Policy,” Keynote Speaker, Mountain Climate Sciences Symposium, North Lake Tahoe, NV, May 2004.
- “The Politics of Growth Control,” invited panelist, On the Edge: Metropolitan Growth and Western Environments—Past, Present, and Future, Program for the Study of the North American West, Stanford University, April 2004.
- “Working Agricultural and Urban Landscapes: What Do We Know and What Do We Need to Know?,” The Endangered Species Act at 30: Lessons and Prospects, Santa Barbara, CA, November 2003.
- “Shaping the Sierra: Nature, Culture, and Conflict in the Changing West,” Sustainable Mountain Communities, The Banff Centre, Banff, AB, Canada, June 2003.
- “Trends in Electricity Consumption, Peak Demand, and Generating Capacity in California and the Western Grid, 1977-2000,” Program on Workable Energy Regulation, University of California Energy Institute, Berkeley, CA, March 2002 (with Jolanka Fisher).
- “Shaping the Sierra: the Role of Law in Managing Population Growth in the Rural and Exurban West,” Environmental Section, California State Bar, Fish Camp, CA, October 2001.
- “Threats to Sierra Nevada Watershed Planning and Management from the California Energy Crisis,” Keynote Speaker, California Watersheds Conference 2001: The Challenge of Collaborative Management, Sacramento, CA, March 2001.
- “Sustainability in the Sierra Nevada and in Managing the California Energy Crisis,” Metropolis West conference on Sustainable Design, San Francisco, CA, February 2001.
- “Three Myths in Environmental Planning: Overcoming the Progressive Legacy in Resource Management,” Association of Collegiate Schools of Planning, Atlanta, GA, November 2000.
- Panel member on California’s Continuing Resource Investment Strategy Project (CCRISP) and panel member on issues confronting the Sierra Nevada region, American Planning Association (California Chapter), Long Beach, CA, September 2000.
- “The Ecological Economics of Amenity Migration in the Sierra Nevada, California,” International Society for Ecological Economics, Santiago, Chile, November 1998.
- “Natural Capital and Quality of Life: A Regional Perspective,” International Society for Ecological Economics, Santiago, Chile, November 1998 (with Cecilia Collados).
- “The Range of Light: Nature and Culture in the Sierra Nevada,” Association of Collegiate Schools of Planning, Pasadena, CA, November 1998.

- "A Tale of Two Counties on the Exurban Frontier: The Failure of Local Planning in the Sierra Nevada Foothills," Association of Collegiate Schools of Planning, Ft. Lauderdale, FL, November 1997.
- "The Failure of Local Land Use Planning to Protect Biological Diversity: A Tale of Two Counties in the Sierra Nevada Foothills of California's Growing Exurbia," Society for Conservation Biology, Victoria, BC, June 1997.
- "Managing Rapid Population Growth in the Sierra Nevada Foothills," Association of Environmental Professionals, San Francisco, CA, May 1997.
- "Community Participation in Ecosystem Management," Ecology Law Quarterly Symposium on The Ecosystem Approach: New Directions for Land and Water, University of California, Berkeley, CA, February 1997.
- "The Sierra Nevada Ecosystem Project and Ecosystem Management," Environmental Law Society Conference on Ecosystem Management, University of California, Davis, CA, February 1997.
- "The Landscape Ecology of Exurban Population Growth in the Sierra Nevada," International Association for Landscape Ecology, Minneapolis, MN, April 1995.
- "Evolution of U.S. Environmental Policy," Environmental Spirit conference, University of California, Berkeley, CA, April 1995.
- "Ecosystem Management and Bioregional Planning in the Sierra Nevada: Integrating Top-Down Funding and Analysis with Bottom-Up Solutions," Association of Collegiate Schools of Planning, Tempe, AZ, November 1994.
- "Biodiversity and Local Land Use Planning," The Nature Conservancy Stewardship and Conservation Science conference, Sedona, AZ, January 1994.
- "Managing Exurban Sprawl in the Sierra Nevada Foothills," Association of Collegiate Schools of Planning, Philadelphia, PA, October 1993.
- "Bioregional Planning and Sustainable Development," Pacific Rim Conference on Urban Development, San Francisco, CA, October 1993.
- "Ecotransformation of the Western Frontier: Exurban Values and the Amenity Economy," Western Humanities Conference, Stanford, CA, October 1993.
- "Ecotransformation and the Value of Wilderness," Federal Wilderness Managers conference, Kings Beach, CA, October 1993.
- "Environmental Quality as an Economic Asset in the Sierra Nevada," Sierra Nevada Economic Summit conference, Sacramento, CA, June 1993.
- "Exodus to Exurbia: The Threat of Population Growth in Rural 'Buffer Zone' Regions to the Conservation of Biological Diversity," Society for Conservation Biology, Tempe, AZ, June 1993.

- "Ecotransformation: Ecological Implications of Economic Change in the Sierra Nevada Economy," Association of Environmental Professionals, Yosemite, CA, March 1993.
- "Exurban Development in the Sierra Nevada Foothills," Local Government Commission conference on Planning for Clean Air in Placer and El Dorado Counties, Auburn, CA, February 1993.
- "Environmental Quality: Lake Tahoe's Most Important Asset," Competition and Change: Creating an Economic Vision for Lake Tahoe, South Shore of Lake Tahoe, NV, October 1992.
- "Environmental Ethics: The Legacy of John Muir and Aldo Leopold," Landscape Institute at The Clearing, Ellison Bay, WI, September 1992.
- "Urbanization and Local Economic Development: Strategies for a Sustainable Sierra Nevada," Sierra Now, Sacramento, CA, August 1992.
- "Environmental Planning and Policy in a Post-Rio World," Public Policy Forum on Energy and Resources, Aspen Institute for Humanistic Studies, Aspen, CO, July 1992.
- "Urbanization and Local Economic Development: Strategies for a Sustainable Sierra Nevada," Environment Now Mini-Summit on the Sierra Nevada, Donner Lake, CA, May 1992.
- "Environmentally Sustainable Water Resources Planning," Innovative Technologies Forum for the Presidio, San Francisco, CA, March 1992.
- "Energy Efficiency and the Global Environment," Global Forum on Environment and Development for Survival (Scientific Mini-Forum), Moscow, USSR, January 1990.
- "Dispersed Energy Facilities in the 1980's: Increased Diversity and Flexibility?," Association of Collegiate Schools of Planning, Los Angeles, CA, November 1987 (with Lyna L. Wiggins).

UNIVERSITY PRESENTATIONS:

- "Reducing Greenhouse Gas Emissions from Vehicle Miles Traveled: Integrating the California Environmental Quality Act (CEQA) with the California Global Warming Solutions Act (AB 32)," Department of Environmental Studies, University of California, Santa Cruz, October 2008.
- "Greening the Grid: Moving From the Deregulation Era to the Climate Change Era," Julie Wrigley Lecturer in Sustainability, Arizona State University, Tempe, AZ, February 2008.
- "*Kelo*, *SWANCC*, and *Rapanos*: Making Sense of Supreme Court Doctrine in Seemingly Unrelated Fields," Vermont Law School, South Royalton, VT, November 2007.
- "Maximizing the Public Benefits of Agricultural Conservation Easements," University of California land lunch series, Berkeley, CA, April 2007.
- "Maximizing the Public Benefits of Agricultural Conservation Easements," Stanford Law School, Stanford University, Stanford, CA, April 2006.

- “Regulation’s Rationale: Learning from the California Energy Crisis,” Boalt Hall School of Law, University of California, Berkeley, CA, April 2006.
- “Models, Myths, Metaphors, and Magic: When and Why Modeling Matters in Energy and Environmental Policy,” Department of Management Science and Engineering, Stanford University, Stanford, CA, February 2006.
- “Good Politics Before Good Science? Comparing Placer Legacy with Natural Heritage 2020,” Mountain Geography Seminar, University of California, Davis, October 2003.
- “Regulation’s Rationale: Lessons from the California Energy Crisis,” Institute of Urban and Regional Development, University of California, Berkeley, April 2003.
- “Three Myths in Environmental Planning and Resources Management,” Stanford Law School, Stanford University, April 2002.
- “Regulation’s Rationale: Lessons from the California Energy Crisis,” Donald Bren School of Environmental Science and Management, University of California, Santa Barbara, January 2002.
- “Power Play: Markets, Regulators, and Politics in the California Electricity Crisis,” Wurster Society luncheon in San Francisco, CA, College of Environmental Design, University of California, Berkeley, September 2001.
- “Power Play: California’s Electricity (Natural Gas, Gasoline, and Water) Crisis,” Energy and Resources Group, University of California, Berkeley, February 2001.
- “Water Over the Dam? PG&E’s Proposed Hydroelectric System Divestiture and the California Electricity Crisis,” Institute for Governmental Studies, University of California, Berkeley, December 2000.
- “Shaping the Sierra: Nature, Culture, and Conflict in the Changing West,” Institute of Urban and Regional Development, University of California, Berkeley, April 2000.
- “Shaping the Sierra: Nature, Culture, and Conflict in the Changing West,” Women’s Faculty Club, University of California, Berkeley, March 2000.
- “Shaping the Sierra: Nature, Culture, and Conflict in the Changing West,” William Main Distinguished Lecture Series in Forestry, University of California, Berkeley, May 1999.
- "National Forest Planning and the California Spotted Owl," Donald Bren School of Environmental Science and Management Colloquium, University of California, Santa Barbara, May 1998.
- "The Range of Light: Nature and Culture in the Sierra Nevada," Cal Day Open House, College of Environmental Design, University of California, Berkeley, April 1998.
- "The Range of Light: Nature and Culture in the Sierra Nevada," Energy and Resources Colloquium, University of California, Berkeley, CA, October 1997.
- "Environmental Careers for Cal Students," Association of Environmental Professionals and the Career Planning Center, University of California, Berkeley, April 1997.

- "Exodus to Exurbia: California's Population Growth and the Ecotransformation of the Sierra Nevada," Geography Colloquium, University of California, Santa Barbara, CA, January 1996.
- "A Quarter-Century of Modern Environmental Policy and Regulation in the United States," Human Biology Program, Stanford University, Stanford, CA, October 1995.
- "Human Settlement and Social Change in the Sierra Nevada," Conservation Biology Colloquium, University of California, Davis, September 1994.
- "Bioregionalism as a Planning Paradigm," Sierra Community College, Rocklin, CA, April 1994.
- "Exurban Population Growth and Sierra Nevada Forests," Forestry and Resource Management Forum, University of California, Berkeley, March 1994.
- "Ecotransformation of the Sierra Nevada: A Bioregional Analysis," Environmental Science, Policy and Management Forum, University of California, Berkeley, February 1994.
- "Environmental Careers in a post-Rio World," Bay Area planning job fair, University of California, Berkeley, April 1993.
- "A Bioregional Framework for Exurban Development," California Communities Forum, College of Environmental Design, University of California, Berkeley, February 1993.
- "Environmental Implications of Urbanization in the Sierra Nevada Foothills," Energy and Resources Group Colloquium, University of California, Berkeley, CA, September 1992.
- "Bioregional Planning in the Sierra Nevada," Landscape Architecture Colloquium, University of California, Berkeley, CA, October 1991.

PUBLIC PRESENTATIONS:

(Quotes have appeared in the New York Times, Wall Street Journal, Los Angeles Times, San Francisco Chronicle, Sacramento Bee, Contra Costa Times, Sunset, and many other venues)

- Interview with "Which Way, L.A.?" Public Radio program regarding land use patterns and fire management policy in exurban regions, September 2009.
- "Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Parsons Memorial Lodge, Yosemite National Park, July 2009.
- Interview with "Weekend Edition" (broadcast nationally by National Public Radio) regarding land use patterns and fire management policy in exurban regions, July 2008.
- "Maximizing the Public Benefits of Agricultural Conservation Easements," Tulare Basin Working Group, Visalia, CA, April 2007.
- Interview with "California Connected" (broadcast on all California PBS television stations) regarding statewide environmental and resource management issues, September 2005.
- Interview with Capitol News Service (broadcast by various California television stations) regarding the California energy crisis, July 2001.

Interview on High Country News Radio regarding the California energy crisis (broadcast by radio stations throughout the intermountain west), Paonia, CO, March 2001.

Interview on CBS News (broadcast nationally) regarding energy efficiency as an alternative to conflicts between environmental values and energy system reliability, February 2001.

Interviews on miscellaneous Bay Area television stations regarding the California energy crisis, January 2001.

Interview on "Market Place" for Public Radio International (broadcast nationally) on the California energy crisis, Los Angeles, CA, December 2000.

Interview on KPFA-FM regarding the California energy crisis, Berkeley, CA, December 2000.

Interview with National Public Radio on Lake Tahoe land use planning and growth management (broadcast nationally on "Living on Earth"), Boston, MA, December 2000.

Keynote speaker at Bureau of Land Management training session on "Planning Public Lands Management for the 21st Century," National Training Center, Phoenix, AZ, November 2000.

"Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Yosemite Association, Yosemite National Park, CA, April 2000.

"Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Regional Council of Rural Counties, Sacramento, CA, December 1999.

Interview on KVMR-FM regarding land use planning, Nevada City, CA, September 1999.

"Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Sierra Business Council, Bishop, CA, September 1999.

Interview on KPCC-FM regarding federal and state forest policy, Pasadena, CA, August 1999.

"Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Sierra Business Council, Sonora, CA, August 1999.

"Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Sierra Nevada Alliance, Echo Lake, CA, August 1999.

"Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," San Francisco Bay Chapter of the Sierra Club, Oakland, CA, July 1999.

"Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," San Geronimo Valley Planning Group, Forest Knolls, CA, July 1999.

"Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Sierra Business Council, Quincy, CA, July 1999.

"Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Sierra Business Council, Auburn, CA, July 1999.

"Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Sierra Business Council, Grass Valley, CA, July 1999.

- “Community Participation in Ecosystem Restoration: Institutional Challenges for Governance,” CALFED Governance Workshop, Sacramento, CA, June 1999.
- "Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Sierra Business Council, Placerville, CA, June 1999.
- "Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Sorensen's Resort, Markleeville, CA, June 1999.
- "Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Rural Quality Coalition of Nevada County, Nevada City, CA, May 1999.
- "Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Truckee-Donner Land Trust, Truckee, CA, May 1999.
- "Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Sierra Business Council, Squaw Valley, CA, May 1999.
- “Land Use and Urban Sprawl” panel, American Society of Newspaper Editors, San Francisco, CA, April 1999.
- "Shaping the Sierra: Nature, Culture, and Conflict in the Changing West," Sierra Business Council, Columbia, CA, September 1998.
- "The Findings of the California Spotted Owl Federal Advisory Committee," Northern California Chapter, Society of American Foresters, Orinda, CA, April 1998.
- "Modeling the Impact of Exurban Population Growth on Habitat Conversion in the Sierra Nevada Foothills," California Biodiversity Council, Davis, CA, November 1997.
- "The Urbanization of the Central Valley," University of California Capital Campaign, Fresno, CA, November 1997.
- "Land Use Planning and Growth Management in the Sierra Nevada," Sierra Business Council, Rainbow Lodge, Truckee, CA, July 1996.
- Interview with Cable News Network on the Sierra Nevada Ecosystem Project (broadcast internationally by CNN), June 1996.
- "Human Settlement in the Sierra Nevada, 1850-2040," Sierra Nevada Ecosystem Project, Placerville, CA, June 1996.
- "Land Use, Biodiversity and Fire in the Sierra Nevada Foothills," California Biodiversity Council, Nevada City, CA, June 1996.
- "Recreation and Tourism in the Eastern Sierra Nevada," White Mountain Research Station, Bishop, CA, March 1996.
- Interview with National Public Radio on mountain lions and exurban development in the Sierra Nevada (broadcast nationally on "All Things Considered"), March 1996.
- "Policy Options for Addressing Global Climate Change," the Oakland Museum, Oakland, CA, February 1996

- "The Economics of Planning and Development," Foothills Chapter, American Planning Association, Nevada City, CA, June 1995.
- "Ecology and Economics," Yuba Watershed Institute, North Columbia Schoolhouse Cultural Center, Nevada City, CA, May 1995.
- Panel discussion following presentation of "Sierra in Peril" film, Rural Quality Coalition, Nevada City, CA, January 1995.
- "Plans versus Planning: A Regional Analysis of Growth in the Western Sierra Nevada Foothills," Sierra Nevada Alliance, Mammoth Lakes, CA, July 1994.
- "Ecotransformation of the Truckee-Donner Area," Rural Quality Coalition, Truckee, CA, May 1994.
- Interview on innovative planning approaches in rural areas, KVMR-FM, Nevada City, CA, May 1994.
- "Ecotransformation: Ecological and Economic Implications of Land and Resource Management Policy in Inyo and Mono Counties," White Mountain Research Station public lecture series, Bishop, CA, March 1994.
- "Recreation and Tourism in the Eastern Sierra Nevada," Coalition for Unified Recreation in the Eastern Sierra quarterly meeting, Mammoth Lakes, CA, March 1994.
- "An Alternative Vision for the Nevada County General Plan," Rural Quality Coalition, Nevada City, CA, December 1993.
- "Environmental Planning and the Ecotransformation of the Sierra Nevada," Rural Quality Coalition, Nevada City, CA, November 1993.
- Call-in radio show on land use planning, KVMR-FM, Nevada City, CA, November 1993.
- Call-in radio show on land use planning, KNCO-AM, Grass Valley, CA, November 1993.
- "Urbanization in the Sierra Nevada Foothills," Foothills Conservancy, Jackson, CA, May 1993.
- "Planning for Livable Communities in the Sierra Nevada," Tuolumne County 2000 series on Sense of Place, Sonora, CA, May 1993. Broadcast on local community access cable channel 8 during June and July 1993.
- Panel discussion on "Building Connections: Livable, Sustainable Communities," American Institute of Architects, San Francisco, CA, April 1993.
- Panel discussion on "The Fate of the Sierra Nevada" on KQED "Forum" program, KQED-FM public radio, San Francisco, CA, September 1992.
- "Environmental Planning and the Nevada County General Plan," California Scholastic Federation, Nevada Union High School, Grass Valley, CA, January 1992.
- "Energy Efficiency and Iraqui Oil," KQED-FM public radio, San Francisco, CA, September 1990.

"Pollution-Free Pedaling," KQED-FM public radio, San Francisco, CA, August 1990.

"Cougar at Canyon Creek," KQED-FM public radio, San Francisco, CA, February 1990.

CONFERENCE PARTICIPATION:

Public Interest Environmental Law Conference, University of Oregon, Eugene, OR, February 2010.

American Bar Association, Water Law Conference, San Diego, CA, February 2010.

California Water Law Symposium, University of San Francisco, San Francisco, CA, January 2010.

Association of American Law Schools, New Orleans, LA, January 2010.

Takings Conference, Vermont Law School, South Royalton, VT, October 2009.

Association of American Law Schools, San Diego, CA, January 2009.

Growing Green Communities: Infrastructure Development and the Environment, Vermont Law School, South Royalton, VT, February 2009.

Environmental Section, California State Bar, Fish Camp, CA, October 2008.

Agriculture at the Metropolitan Edge Conference, University of California, Berkeley, CA, April 2007.

Environmental Section, California State Bar Association, Fish Camp, CA, October 2006.

Great Valley Center Conference, Sacramento, CA, May 2006.

United States Geological Survey Modeling Conference, Olympic Park Institute, WA, November 2005.

Environmental Section, California State Bar Association, Fish Camp, CA, October 2005.

Governance and Decision Making in Mountain Areas, Banff, AB, Canada, June 2005.

California Forest Futures, Sacramento, CA, May 2005.

Association of Collegiate Schools of Planning, Portland, OR, October 2004.

Mountain Climate Sciences Symposium, North Lake Tahoe, NV, May 2004

The Endangered Species Act at 30: Lessons and Prospects, University of California, Santa Barbara, CA, November 2003.

Environmental Section, California State Bar Association, Fish Camp, CA, October 2003.

Sustainable Mountain Communities, Banff Centre, Banff, AB, Canada, June 2003.

Program for the Study of the North American West, Stanford University, CA, April 2003.

Environment, Energy and Resources Section, American Bar Association, Portland, OR, October 2002.

Program on Workable Energy Regulation, University of California, Berkeley, CA, March 2002.

Environmental Section, California State Bar Association, Fish Camp, CA, October 2001.

California Watersheds Conference, Sacramento, CA, March 2001.

Program on Workable Energy Regulation, University of California, Berkeley, CA, March 2001.

Public Interest Environmental Law Conference, Eugene, OR, February 2001.

Association of Collegiate Schools of Planning, Atlanta, GA, November 2000.

American Planning Association (California Chapter), Long Beach, CA, September 2000.

International Society for Ecological Economics, Santiago, Chile, November 1998.

Association of Collegiate Schools of Planning, Pasadena, CA, November 1998.

Association of Collegiate Schools of Planning, Ft. Lauderdale, FL, November 1997.

Society for Conservation Biology, Victoria, BC, Canada, June 1997.

Association of Environmental Professionals, San Francisco, CA, May 1997.

Ecology Law Quarterly Symposium on The Ecosystem Approach: New Directions for Land and Water, University of California, Berkeley, February 1997.

Environmental Law Society Conference on Ecosystem Management, University of California, Davis, February 1997.

International Association for Landscape Ecology, Minneapolis, MN, April 1995.

Environmental Spirit Conference, University of California, Berkeley, CA, April 1995.

Association of Collegiate Schools of Planning, Tempe, AZ, November 1994.

International Society for Ecological Economics, San Jose, Costa Rica, October 1994.

The Nature Conservancy Stewardship Conference, Sedona, AZ, January 1994.

Association of Collegiate Schools of Planning, Philadelphia, PA, October 1993.

Pacific Rim Conference on Urban Development, San Francisco, CA, October 1993.

Western Humanities Conference, Stanford University, Stanford, CA, October 1993.

Federal Wilderness Managers Conference, Kings Beach, CA, October 1993.

Sierra Nevada Economic Summit, Sacramento, CA, June 1993.

Society for Conservation Biology, Tempe, AZ, June 1993.

American Institute of Architects, San Francisco, CA, April 1993.

Association of Environmental Professionals, Yosemite, CA, March 1993.

Planning for Clean Air in Placer and El Dorado Counties, Local Government Commission, Auburn, CA, February 1993.

Competition and Change: Creating an Economic Vision for Lake Tahoe, South Shore of Lake Tahoe, NV, October 1992.

The Landscape Institute at The Clearing, Ellison Bay, WI, September 1992.

Sierra Now Conference on the Sierra Nevada, Sacramento, CA, August 1992.

Aspen Institute for Humanistic Studies, Forum on Environmental Policy and Governance, Aspen, CO, August 1992.

American Planning Association, Washington, D.C., May 1992.

U.S.-European Community Environmental Policy, Boalt Hall School of Law and the Center for German and European Studies, University of California, Berkeley, CA, April 1992.

Innovative Technologies Forum for the Presidio, San Francisco, CA, March 1992.

Visions of a Sustainable World, California Institute of Technology, Pasadena, CA, October 1991.

Association of Collegiate Schools of Planning, Austin, TX, November 1990.

Independent Energy Producers, South Lake Tahoe, CA, October 1990.

Global Forum on Environment and Development, Moscow, USSR, January 1990.

Aspen Institute for Humanistic Studies, Forum on Global Warming, Aspen, CO, July 1989.

Association of Collegiate Schools of Planning, Los Angeles, CA, November 1987.

American Planning Association, Los Angeles, CA, April 1986.

Aspen Institute for Humanistic Studies, Forum on Electric Utility Industry Structure and Regulation, Aspen, CO, July 1985.

Renewable Energy Technology Symposium and Exposition, Anaheim, CA, June 1985.

American Planning Association, Montréal, Canada, April 1985.

Shaping the Sierra: Nature, Culture, and Conflict in the Changing West

by Timothy P. Duane (Berkeley: University of California Press, 1999)

American Planning Association (APA) Journal, Spring 2001 (Frank J. Popper): “This tale of the apple of development falling in a childhood Eden resonates for millions of baby-boom Americans who grew up in suburbia or, as in Duane’s case, exurbia...Despite the subtitle, the book is not really about the West, but about most portions of high-natural-amenity America that have been in the path of postwar development. In all such cases, Culture, to use Duane’s terms, meets Nature and they keep transforming each other...Duane has written perhaps the best and certainly the most exhaustive case study of this overall, still-unfolding process...Most of us need to get out more. In intimate vivid detail, Duane shows us how and why.”

Journal of Planning Education and Research, 2000 (Margot W. Garcia): “a book as expansive as its title...it can be read at a number of levels, skipping the theory parts and still appreciating the story. The book is written in such a lively fashion that it pulls the reader through philosophical discussions of deep ecology, bioregionalism, social capital, and economic development, and ends with the author’s vision of sustainable development among people committed to place...a fascinating account of the politics of growth management...very worthwhile to read...this book would make an interesting text for a graduate introduction to planning course...It would also be a good book to give to that family member who asks, ‘Now, what is it that planners do?’”

Landscape and Urban Planning, 25 May 2000 (Elisabeth M. Hamin): “an expansive, detailed reflection on the interrelated demographic, economic, and ecological changes transforming the Sierra Nevada mountain range...Duane works to weave together his diverse academic interests, personal experiences, and ethical commitments. It is an admirable goal and an impressive effort...Duane’s book is remarkable for bringing together diverse existing strands of policy and planning thought and applying them to this particular landscape...As a reflection of the state of the field, this book confirms that planning remains poised ‘between modernity and post-modernity.’”

Berkeley Planning Journal, 1999 (Lisel Blash): “a powerful demonstration of planning’s interdisciplinary reach. Drawing upon economics, demography, ecology, history, constitutional law, political science, popular culture, planning theory, and personal experience, Duane crafts a multi-faceted picture of the Sierra region and the dynamic relationship between nature and culture...a remarkably comprehensive exploration of a region...[Duane’s] personal perspective on the land and its politics makes the book a pleasure to read. At the same time, *Shaping the Sierra* is packed full of information and analyses. It is particularly valuable in that it applies a planner’s perspective to an area more closely associated with the work of poets and environmentalist philosophers...While the book focuses on the Sierra Nevada Range in California, its insights are relevant to other areas undergoing similar changes. This is the sort of book that one hangs onto and turns to again and again for ideas and vital information.”

San Francisco Chronicle, September 5, 1999 (Christine Colasurdo): “Duane has followed in his predecessors’ footsteps to craft a work worthy of the much-revered Range of Light...Land use and population growth are two of the nation’s toughest issues, and the Sierra is no small chunk of ground, but Duane rises to the task with as much determination as if he were scaling Half

Dome... ‘Shaping the Sierra’ is beautifully produced, with attractive maps and a layout that match the polished scholarship.”

High Country News, February 14, 2000 (Bill Riebsame): “[a] hefty and complex book about one of the West’s rapidly developing mountain zones...perhaps our love of Western landscapes can steer the growth machine in a slightly different direction, and we can thank Duane for using his own love of place to point out the needed course correction.”

Linkages (Institute for Ecological Health), Winter 2000 (John Hopkins): “an important, exhaustive, and very readable analysis of growth in the western foothills of California’s Sierra Nevada...[Duane’s] fascinating account provides a very strong lesson for local citizens across the nation—change in land use planning requires change in local political dynamics. This book covers a wealth of key rural issues in great detail...While the book is about one region, it will be highly useful to those concerned about the future of any rural landscape in California and beyond.”

Environment, May 2000 (Theodore M. Newcomb, Jr.): “Growth management is a hot political topic in the western United States, and this well-written and timely book describes the forces that are altering it in the Sierra Nevada...[Duane] distills the key elements, both political and scientific, that he believes are needed to achieve effective and progressive land management policies in the West.”

Audubon, July-August 2000 (Christopher Camuto): “an impressive attempt to analyze the ‘changing social and economic relations that have altered the relationship between Nature and Culture in the Sierra Nevada.’ The author offers a thorough history of the causes and effects of the dramatic population growth in the Sierras since the late 1960s.”

Gary Snyder, Pulitzer Prize winning poet and author: “Tim Duane has written an inspiring and instructive text. It’s a massive accomplishment, with a wealth of historical, natural, and regional political information refracted through cutting edge analysis and theory. Rich in personal anecdote and hands-on experience—heading straight into thorny and contentious issues—angry polarizations—and finally suggesting some emerging models of responsible life-in-place that go beyond the current debates. The reach of Duane’s study corrals far more than the Sierra Nevada. It will be of use to those who wrestle with the dilemmas of economy and ecology everywhere. This book dispels a lot of (rhetorical) smoke from around the Range of Light.”

Journal of the West, Summer 2002 (Elliot McIntire): “This is a must read book for anyone concerned about the direction of growth in the American West and its impact on Nature...It is a graceful blend of history, ecology, sociology, political science, and planning that offers hope for the West’s future.”

Rural Sociology, June 2000 (Peter A. Walker): “...it should be required reading for planners, political leaders, and activists in search of information and innovative ideas for tackling the difficult social and ecological problems confronted by many rapidly growing rural areas today.”