

CURRICULUM VITA
MARTIN J. (Mike) PASQUALETTI

ACADEMIC TRAINING

B.A.	1967	University of California, Berkeley
M.A.	1969	Louisiana State University, Baton Rouge
Ph.D.	1977	University of California, Riverside

AFFILIATIONS

- Professor, School of Geographical Sciences and Urban Planning, Arizona State University
- Visiting Faculty Fellow, Barrett, the Honors College, Arizona State University 2008-2009
- Graduate Faculty, Global Technology and Development, ASU
- Adjunct Professor, Center for Energy Systems Research, College of Engineering and Applied Sciences, Arizona State University 1983-1995
- Faculty Fellow for Natural Resources and the Environment, Arizona State University, 1992-1995
- Professor, Kingston University, England 1987
- Professor, ASU abroad, University College, London, England 1984-85

AREAS OF SPECIALIZATION

- Alternative Energy (solar, geothermal, wind)
- Energy and Environment
- U.S. and Canada
- Border Environments of Canada and Mexico

SELECTED HONORS AND AWARDS

- Lifetime Achievement Award. Renewable Energy Task Force, Alliance for Construction Excellence, Arizona State University, March 2006
- Marisco Foundation Visiting Scholar, University of Denver, April 2004
- Featured Faculty of the Month, Co-Curricular Program, ASU, March 2004
- Who's Who in America, 2002- present. www.marquiswhoswho.com
- Environmental Educator of the Year, Association of Energy Engineers, 1993.
- Arizona State University Honors Research Professor, 1983.

SELECTED PROFESSIONAL SERVICE

- 2009 – Merit Advisory Panel, National Renewable Energy Laboratory
- 2008 – 2010 Advisory Board for the FPL Energy – TCU – Oxford Wind and Environment Research Partnership
- Associate Member, National Wind Coordinating Collaborative, Washington, D.C. 2005 -
- Chair, Arizona Solar Energy Advisory Board (Governor appointee) 2002 –2006
- Associate Editor: *Environmental Sciences: Journal of Integrative Environmental Research*; Editorial Boards - *International Journal of Low Carbon Technologies*; *Land Use Policy*, *The Open Environmental Journal*

- Member, WindPowering America program (U.S. DoE) 2002 –
- Member, GeoPowering the West program (U.S. DoE) 2002 –

PUBLICATIONS

BOOKS AND MONOGRAPHS

- 2002 *Wind Power in View: Energy Landscapes in a Crowded World*, editor and contributor (with Paul Gipe and Robert Righter), Academic Press, ISBN: 0125463340.
- 1997 *The Evolving Landscape: Homer Aschmann's Geography*, editor and contributor. Johns Hopkins University Press.
- 1991 M.J. Pasqualetti and G. Rothwell, eds. *Nuclear Decommissioning Economics: Estimates, Regulation, Experience and Uncertainties*, published by *The Energy Journal*, 320 pp.
- 1990 *Nuclear Decommissioning and Society: Public Links to a Technical Task*, editor, London: Routledge, 237 pp.
- 1984 M.J. Pasqualetti and K.D. Pijawka, eds, *Nuclear Power: Assessing and Managing Hazardous Technology*, Boulder, Colorado: Westview Press, 420 pp.
- 1981 *Energy*. A special issue of *GeoJournal* (guest editor), 8 papers, 150 pp.

PUBLICATIONS

- 2010 The Next Generation of Energy Landscapes. In *Engineering Earth: The Impacts of Mega-Engineering Projects*, Stan Brunn, ed. (forthcoming).
- Siting Solar Power in Arizona: A Public Value Failure? (with Cynthia Schwartz). Patrick Devine-Wright, ed. Earthscan (forthcoming).
- 2009 The Alberta Oil Sands from Both Sides of the Border: *The Geographical Review*, April. 99(2):248-267.
- Energy Landscapes and the Growth of Arizona. In, *Building to Endure: Design Lessons of Arid Lands*, Edited by Paul Lusk and Alf Simon. Albuquerque: University of New Mexico Press.
- 2008 The Water Costs of Electricity in Arizona. Project Fact Sheet of the Arizona Water Institute. <http://www.azwaterinstitute.org/media/Pasq%20fact%20sheet>
- Wind Power in Europe: Politics, Business and Society*. by Joseph Szarka. Reviewed in *Environmental Policy and Planning*, vol 10(8):307-308.
- Energy and American Society: Thirteen Myths*. Reviewed in *Annals of the Association of American Geographers*. Edited by Benjamin Sovacool and Marilyn Brown. Vol. 98(2):504-505.

- Energy Metropolis: An Environmental History of Houston and the Gulf Coast*, edited by Martin V. Melosi and Joseph H. Pratt. Reviewed in *Economic Geography*. Vol 84(3):365.
- 2007 Landscapes of Energy Consumption and Energy Supply, *The Use of Arizona's Land in Times of Burgeoning Growth*, 91st Arizona Town Hall, Patricia Gober, ed., pp. 123-142.
Wind power: obstacles and opportunities. *Environment* 06/07, McGraw-Hill Contemporary Learning Series, ISBN 0073515426. (reprint)
- 2006 *Children of the Sun: A History of Humanity's Unappeasable Appetite for Energy*, by Alfred W. Crosby. Reviewed in *Technology and Culture*, July, Vol 47:638-639.
- 2005 H. Homer Aschmann. *Biobibliographical Studies*. International Geographical Union. Vol 24: 1-27.
- 2004 Wind Power: Obstacles and Opportunities. *Environment*. 46(7): 23-38.
- M.J. Pasqualetti, Robert Righter, Paul Gipe. History of Wind Energy. In *Encyclopedia of Energy*. Edited by Cutler Cleveland. Academic Press: San Diego, pp. 419-433.
- Solomon, Barry D. and M. J. Pasqualetti. History of Energy in Geographic Thought. In *Encyclopedia of Energy*. Edited by Cutler Cleveland. Academic Press: San Diego, pp. 831-842.
- Solomon, Barry D., M.J. Pasqualetti, and D.A. Luchsinger, Energy Geography, in *Geography in America at the Dawn of the 21st Century*, edited by Gary Gaile and Cort Willmott, Oxford University Press, pp. 302-313.
- 2003 Saving the West from the Landscapes of Power. In Patricia Nelson Limerick, Andrew Hildner, Claudia Puska, Eric Skovsted. *What Every Westerner Should Know about Energy*. Report from the Center #4. Center of the American West. University of Colorado, Boulder, p. 16
- The Geography of Energy at the US-Mexican Border, in *Trade, Energy, and the Environment: Challenges and Opportunities for the Border Region, Now and in 2020*. SCERP Monograph Series, no. 7. Edited by David A. Rohy. San Diego: San Diego University Press, pp. 133-167.
- Energy and Environment at the US-Mexican Border, in *Trade, Energy, and the Environment: Challenges and Opportunities for the Border Region, Now and in 2020*. SCERP Monograph Series, no. 7. Edited by David A. Rohy. San Diego: San Diego University Press, pp. 169-187.

- 2002 Accommodating Wind Power in a Hostile Landscape, in *Wind Power in View: Energy Landscapes in a Crowded World*, Martin J. Pasqualetti, et al, eds., Academic Press, pp. 153-171.
- Wind Power in View, in *Renewable Energy: Trends and Prospects*, edited by S.K. Majumdar, E.W. Miller and A.I. Panah, Easton, PA: The Pennsylvania Academy of Science, pp. 147-160.
- The US-Mexico Border Energy Zone, in *Both Sides of the Border: Transboundary Environmental Management Issues Facing Mexico and the United States*, L. Fernandez and R. Carson, eds., Kluwer Academic Publishers, Dordrecht, pp. 323-346.
- 2001 Wind Power: Where Will it Grow? In *Technology, Humans, and Society: Toward a Sustainable World*, by Richard C. Dorf, San Diego: Academic Press, pp. 290-294.
- Morality, Space, and the Power of Wind-Energy Landscapes, *The Geographical Review*, 90(3):381-394, July 2000 (published in May 2001).
- Wind Energy Landscapes: Society and Technology in the California Desert, *Society and Natural Resources*, 14(8):689-699).
- The History of Energy Landscapes, In *Think Global*, pp. 19-33.
- Sunshine Capitol Should Act Like One. *Arizona Republic* (invited editorial). May 6, 2001, p. V-1, V-2.
- The Radiance of France: Nuclear Power and National Identity* by Gabrielle Hecht, reviewed in *The Geographical Review*, 90(3):381-394, July 2000 (published May 2001), pp. 467-469.
- 1997 Landscape Permanence and Nuclear Warnings. *The Geographical Review*, 7(1):73-91. (Published January 1998 and posted by the US Department of Energy at: <http://its.apps.em.doe.gov/center/reports/doc47.html#toc>)
- An Iconoclast on the Loose, in *The Evolving Landscape: Homer Aschmann's Geography*, Johns Hopkins University Press, pp. 1-11.
- 1996 The Unsiting of Nuclear Power: The land use context of decommissioning risk. *The Professional Geographer*, 48(1):57-69 (with K. David Pijawka).
- 1995 DSM programs must aim at consumers, not just technology. *Public Utilities Fortnightly*, 133(2):23-26, (with R. Jennings, M. Harrigan, R. Boscamp).
- 1994 Decommissioning nuclear power plants. In *Controlling the Atom in the 21st Century*, David P. O'Very, Christopher E. Paine, and Dan W. Reicher (eds.), Boulder: Westview Press, pp. 315-334.

Working with the environment to get the energy you need. ARGUS project of the Association of American Geographers.

Nuclear Energy and the Public, by Joop van der Plicht. *The Professional Geographer*, 46(3):45-46.

- 1993 M. J. Pasqualetti and Geoffrey Rothwell, Who pays to close a nuclear power plant? *Public Utilities Fortnightly*, 131(2):35-37. (on the topic of environmental externalities.)

Demand-side management train is pulling out. *Forum*, 8(3):123-124, Fall.

When we turn Palo Verde Off. *Arizona Energy Data Quarterly Report*. Fourth Quarter 1992. August 1993, pp. 1-4.

- 1992 M.J. Pasqualetti, Robert L. Boscamp, and Scott Jacobson, Technology helps students manage energy, *Public Utilities Fortnightly*, 129(8):30-32.

The operational geography of Great Britain, *The Professional Geographer*, 44(3):296-307.

Environment, Resources and Conservation, by Susan Owens and Peter L. Owens. *The Professional Geographer*, 44(3):360-361.

World Nuclear Power, by Peter Mounfield. *Applied Geography* 12(3):284.

- 1991 The place of economics in nuclear decommissioning policy. In *Nuclear Decommissioning Economics*, a special issue of *The Energy Journal*, M.J. Pasqualetti and Geoffrey Rothwell (eds.), pp. 3-12.

Nuclear oversight: a critical analysis of the public element in decommissioning policy, In *Energy, Environment and Public Policy: Issues for the 1990s*, edited by David McKee, Pergamon, pp. 128-139.

Nuclear decommissioning impacts: wastes, land use perceptions and policy. *Seventh International Standing Conference on Low Level Radiation and Health*. Proceedings. Bristol, England, UK.

- 1990 Public links to a technical task, In *Nuclear Decommissioning and Society: Public Links to a Technical Task*, M.J. Pasqualetti (ed.) London, England: Routledge, pp. 3-13.

Of links and legacies, In *Nuclear Decommissioning and Society: Public Links to a Technical Task*, M.J. Pasqualetti, ed., London: Routledge pp. 203-208.

The land use focus of energy impacts, In *Energy and Land Use Planning*. J. Barry Cullingworth (ed.) Newark, N.J.: Transaction Publishers, pp.99-136.

- Decommissioning Impacts, *Energy and the Environment Conference & Exhibition*, Proceedings, Denver, 26-28 September.
- 1989 Introducing the geosocial context of nuclear decommissioning: Policy implications in the USA and Great Britain, *Geoforum*, 20(4):381-396.
- M.J. Pasqualetti and Mark Dellinger. Hazardous waste from geothermal energy: A case study. *The Journal of Energy and Development*, 13(2):275-295, spring.
- 1988 F.Shelley, B.Solomon, M.J.Pasqualetti and G.T. Murauskas. Locational conflict and the siting of nuclear waste disposal repositories: an international appraisal. *Environment and Planning C: Government and Planning*, vol 6: 323-333.
- Nuclear decommissioning at ground level: Sizewell and the uncertainties of faith, *Land Use Policy*, Vol 5(1):45-61.
- Nuclear Power: Siting and Safety*, by Stan Openshaw. *Geographical Review*, 78(1):95-96.
- 1987 B.Solomon, F.Shelley, M.J. Pasqualetti and G.T. Murauskas, Radioactive waste management policies in seven industrialized democracies. *Geoforum*, Vol. 18., No. 4, pp. 415-431.
- Decommissioning as a neglected element in nuclear power plant siting policy in the US and UK. In *Nuclear Policy in Crisis: Politics and Planning for the Nuclear State*, Andrew Blowers and David Pepper (eds.), Croom-Helm, England, pp. 196-216.
- M.J. Pasqualetti and Edgar Butler, Public reaction to wind development in California. *International Journal of Ambient Energy*, 8(3):83-90.
- Large-Scale Energy Projects: Assessment of Regional Consequences*, edited by T.R. Lakshmanan and B. Johansson, *Annals of Regional Science*, XX(3):147-148.
- Environmental Planning and Management* by John H. Baldwin. *Environment and Behavior*, 19(6):749-750.
- Geography, Resources, an Environment Vol II: Themes from the Work of Gilbert F. White*, edited by Robert W. Kates and Ian Burton. *Annals of the Association of American Geographers*, 77(2):132-323.
- Renewable Energy*, by Stephen Sawyer. *Journal of Geography*, 86(2):83.
- 1986 The dissemination of geographic findings on nuclear energy. *Transactions of the Institute of British Geographers*, N.S. 11:326-336.

Planning the development of site specific resources. *The Professional Geographer*, 38(1), pp. 82-87.

Energy. In *A Geographical Bibliography for American Libraries*, Chancy D. Harris, Editor-in-Chief, Association of American Geographers and the National Geographic Society.

Nuclear energy. In *Geographical Dimensions of Energy*, Frank J. Calzonetti and Barry D. Solomon, editors, D. Reidel Publishing Company, Dordrecht, The Netherlands; Boston, Lancaster. pp. 27-40.

Environmental regulation and national energy policy, Ch. 5 in *Cases and Materials on Environmental Law*, Findley and Farber. (A reprint of "The Decommissioning Dilemma" cited below.)

Energy and land use. In *Land Use: A Spatial Approach*, John Lounsbury and others (editors), Dubuque, Iowa: Kendall-Hunt Publishers, pp. 161-185.

1984 The Decommissioning Dilemma, *Sierra*, 69(5):64+.

M. J. Pasqualetti and B.A. Miller, Land requirements for the solar and coal options, *The Geographical Journal*, July, 152(2):192-212. Also available at: <http://www.jstor.org/view/00167398/ap020763/02a00030/0>.

G. Powell, A.J. Brazel and M.J. Pasqualetti, New approach to estimating solar radiation from satellite imagery, *The Professional Geographer*, 36(2):227-233, April

A convergence/divergence schema to identify impacts: the case of the Palo Verde Nuclear Generating Station. In *Nuclear Power: Assessing and Managing Nuclear Technology*, M. J. Pasqualetti and K. D. Pijawka, eds., Boulder, Colorado: Westview Press, pp. 121-136. (Revised from *The Professional Geographer* 1983).

Nuclear concerns taking new directions, *Scottsdale Daily Progress*, Saturday, June 2, p. 4.

CERT, social issues, and soft paths, *Community Energy Planning Conference, Proceedings*, May 3-5, University of Arizona Conference Center, Oracle.

Regional Conflict and National Policy, edited by Kent A. Price, *Journal of Regional Science*, 24(4):595-597.

Nonconventional Energy Resources, by Philip Pryde, *The Geographical Review*, 74(2):230-231.

World Energy Supply, by Manfred Grathwohl, *GeoJournal*, 8.2:190.

- 1983 Energy or Environment: Take Your Pick? In *Beyond Academic Perspectives for Corporate Consideration*, pp.76-80 Gulf Oil Corporation.
- The site specific nature of geothermal energy: its effects on land use planning, *Natural Resources Journal*, 23:795-814, October.
- Nuclear power impacts: A convergence/divergence schema, *The Professional Geographer*, 25(4):427-436, November.
- 1982 Quick, inexpensive, community-level geothermal development, *City Currents*, Nov./Dec., pp. 2-4.
- Editorial. *GeoJournal*, Supplementary Issue on energy.
- 1981 Geothermal energy, site specificity, and resource reserves, *GeoJournal*, Supplementary Issue 3:49-58.
- 1981 *Energy: Readings from Scientific American*, with introductions by S. Fred Singer, *GeoJournal*, July.
- 1980 Geothermal energy and the environment: the global experience, *Energy: The International Journal*, 5:111-165.
- 1979 M.J. Pasqualetti, J.B. Pick, and E. Butler, Geothermal energy in Imperial County, California: environmental, socioeconomic, demographic, and public opinion research conclusions and policy recommendations, *Energy: The International Journal*, Vol. 4:67-80.
- Energy, *Geographical Survey*, 8(4):35-40.
- American Energy Choices for the Year 2000*, edited by Elihu Bergman, Hans A. Bethe, and Robert E. Marshak, published in *Growth and Change*, 10(3):55-56.
- Geothermal Energy. In *Geothermal Energy and Regional Development: The Case of Imperial County*, Adam Rose and Stahrl Edmunds, editors, New York: Praeger Publishers, Inc., Chapter 2, pp. 13-33.
- M.J. Pasqualetti and Claude Johnson, The regional setting. In *Geothermal Energy and Regional Development: The Case of Imperial County*, Adam Rose and Stahrl editors, New York: Praeger Publishers, Inc., Chapter 3, pp.34-50.
- M.J. Pasqualetti and Adam Rose, The environmental impact of geothermal development. In *Geothermal Energy and Regional Development: The Case of Imperial County*, Adam Rose and Stahrl Edmunds, editors, New York, Praeger Publishers, Inc. Chapter 9, pp. 238-267.
- Adam Rose, M.J. Pasqualetti, and Dale Hurd, Further generalization of the results. In *Geothermal Energy and Regional Development: The Case of Imperial*

County, Adam Rose and Stahlr Edmunds, editors, New York, Praeger Publishers, Inc., 1979, Chapter 11, pp. 296-326

Five articles in *Arizona Energy Education* on boomtowns, socioeconomics of geothermal energy, energy ethics, energy supply and environment, energy and environment.

Geothermal energy, *Proceedings of the Northern Arizona University Summer Energy Institute*, June

Two short articles in *Arizona Energy Education* on the subjects of energy and lifestyle, energy as a social problem.

Technical Reports

2003 *Can Utility Deregulation Benefit The Environment? The Panda Gila River Power Plant, Arizona*. Completed for Teco Energy, Tampa, Florida.

1995 *Environmental Studies at Arizona State University*, 120 pp.

1992 M.J. Pasqualetti and David Harbster, *In Concert with the Environment Handbook*, for EcoGroup, Inc.

Nuclear decommissioning externalities and the Coase Theorem, Center for Economic Policy Research Publication No. 325, Stanford University (w/ G. Rothwell).

Review of *Environmental Externality Costs from Electric Utility Operations*, section on nuclear power plant decommissioning. Under contract with the US Department of Energy.

1991 *Ten Thousand Years of Solitude?* (w/ others). Los Alamos National Laboratory, LA-11048-MS.

1988 *Public Opinion on Wind Farm Development in San Gorgonio Pass*, County of Riverside, CA (with Edgar Butler), 20 pp.

1985 *Energy Activities at Arizona State University*, 244 pp.

1982 *Scottsdale Geothermal Project*, 220 pp. (with C. Stone and L. Goldstone).

1979 *Energy Choices and Social Change in Arizona*, final report, U.S. Department of Energy Grant No. DE-FG06-791R10032.

Kyrene In and Out Transmission Line Study, Arizona Public Service.

Land Use. In *Environmental Impact Assessment*, Provident Oil Refinery Project, Mobile, Arizona.

- 1978 *Geothermal Element*, Imperial County, California, NSF/ERDA Grant AER 75-08793 (with others).
- 1977 18 Environmental Impact Assessments for Albert A. Webb Associates, Riverside, CA. On various topics including water systems, waste water disposal, housing developments, transmission line alignments.
- 1976 *Geothermal Impact in the Imperial Valley: Analysis and Recommendations Based on Analogous Experience*. NSF/ERDA Grant AER 75-08793.
- Location of Geothermal Transmission Lines in the Imperial Valley*, NSF/ERDA Grant AER 75-08793.
- Water Desalination of Geothermal Fluids in the Imperial Valley*, NSF/ERDA Grant AER 75-08793.
- Geothermal Brines and Their Recovery in the Imperial Valley*, NSF/ERDA Grant AER 75-08793.
- Final Report, *Geographical and Environmental Analysis*, NSF/ERDA Grant AER 75-08793.
- 1972 *Land Use Survey by Remote Sensing and Computer Mapping*.

PRESENTATIONS

- 2009 Expert's Panel on the water/energy nexus at the conference Meeting Arizona's Water Needs Today & Tomorrow, Tucson, August 28. Conference organized by the Arizona Investment Council (invited).
- VIP address (invited) – The Embedded Water Costs of Power, Arizona Water Reuse Conference, Flagstaff, AZ July 30-31.
- U.S. Embassy Speakers' Program (invited) – Social Barriers to Renewable Energy. A series of 10 lectures in southern, central, and northern Mexico, June 5-11.
- Keynote Address (invited) - Pushing the Limits of Wind Power" the United Kingdom Economic and Social Research Council, May 6, St Andrews, Scotland.
- The Energy/Water Nexus in the Southwestern United States, Association of American Geographers, Las Vegas, NV, March 24.
- 2008 The Water/Energy Nexus: What it Suggests for Renewable Energy, Energy Trading, and Power Plant Technology, 2nd Annual Kansas Water Issues Forum, Wichita, KS, Dec. (invited).

- The Water/Energy Nexus: What it Suggests for Renewable Energy, Energy Trading, and Power Plant Technology, 2nd Annual Kansas Water Issues Forum, Hays, KS, Dec. (invited)
- Water and Renewable Energy with Rapid Growth in the Arizona-Sonora Region, Arizona/Mexico Commission, Scottsdale, AZ, June (invited).
- Social Barriers to Renewable Energy, Arizona Institute for Renewable Energy, Tempe, Nov. (Plenary session).
- The Alberta Oil Sands from Both Sides of the Border, NNASC Annual Policy Conference - North American Issues: Designing Institutions, Choosing Policies, Vancouver, BC, Canada. March. (invited).
- The Water Costs of Arizona Electricity: Findings and Implications, Green Summit, Phoenix, Sept. (invited).
- Weighing Resource Development: The Alberta Oil Sands from Both Sides of the Border, Canada-U.S. Relations in Transition: The U.S. Elections and Future Prospects, Ottawa, Ontario, Canada, Oct. (Invited)
- Water and Renewable Energy and the U.S./Mexico Border, Binational Institute for Water and Renewable Energy, Phoenix, AZ, Feb. (Invited).
- 2007 Energy Landscapes of the Southwest, Annual Meeting of the Association of American Geographers, San Francisco, CA. March.
- Oil Sands of North America. Renewable Energy Task Force. April.
- Solar Energy, Alternative Energy Expo 2007, April.
- The Problems and Promises of Solar Energy, Café Scientifique, Tempe, AZ. (Invited).
- The Status, Promise and Problems of North American Wind Energy, City of Scottsdale Solar Energy Series, Sept (invited).
- Wind Power in North America: Status, Problems and Solutions, Conference of the North American Institute. May. (Invited).
- Special Session on the book Common Ground, Chair, Association of American Geographers, San Francisco, CA. March
- 2006 Keynote address (invited) – “Wind Power Status, Problems, Solutions”. Commission for Environmental Cooperation (CEC) of North America. Thirteenth Regular Session. Washington, D.C.

- 2005 Visual Impacts Overview, NWCC Technical Considerations in Siting Wind Developments. Moderator and Presentation. Washington, D.C.
- Western U.S. Perspective on Wind Power. Invited. NWCC Technical Considerations in Siting Wind Developments. Washington, D.C.
- 2004 Wind Energy Landscapes and the Challenges they Face. University of Denver, Marisco Foundation Visiting Scholar, April 27 – May 1.
- Arizona Solar Legislation Update. "Sustainable Technologies-Alternative Energy". Arizona Scottsdale Network Air Park Energy Event, April 13 (invited).
- Arizona's Renewable Energy Options, 2004 Energy Management Conference, March 31, Mesa, Arizona (invited).
- 2003 Alternative Energy Supplies in the Intermountain West: Problems and Promises. Paper delivered at the annual meeting of the Association of American Geographers, New Orleans.
- Solar Energy Advisory Council, Southwest Renewable Energy Conference, August, Flagstaff
- 2002 Land, Space, and Energy in the American West. Invited dinner presentation at the symposium Energy in the West: What Every Westerner Should Know. University of Colorado, Center for the American West, Boulder, CO.
- The Geography of Energy at the US/Mexico Border. Paper delivered at the annual meeting of the Association of American Geographers, Los Angeles.
- 2001 Solar Energy in Arizona. Paper delivered at the annual meeting of the of the Association American Geographers, New York City.
- Energy and the Environment, invited presentation before the civic organization Spirit of the Senses, Phoenix.
- 2000 Landscapes of Power, invited keynote. Invited keynote address at The Year 2000 Art and the Landscape Symposium, City Scape><Land Shape, Windermere, England, 11-13 September.
- 1999 Wind power in the California Desert, Annual Meeting of the Association of American Geographers, Honolulu, Hawaii.
- 1998 Nuclear Power in the 21st Century, Annual Meeting of the Association of American Geographers, April, Boston.
- The Geography of Restructuring. The Color Green: Environmental Mandates and Green Power Profits. Scottsdale, AZ. Invited presentation.

- Wind Power on the Move (If People Will Let It). Invited keynote address at the 19th Annual Energy Management Conference. Prescott, AZ.
- 1997 Session Organizer. Paper delivered: Landscapes of Power: The Historical Synergies of Space, Energy, and Technology. Annual Meeting of the Association of American Geographers, April, Ft Worth.
- 1996 Organizer and Chair, Landscapes of Power. Presenter, Energy in the Cultural Landscape, Annual Meeting of the Association of American Geographers, April, Charlotte.
- 1995 The Geoflex Principle: The Spatial Origins of Energy Impacts, Annual Meeting of the Association of American Geographers, April, Chicago.
- 1994 The Risks of Dormancy, 1994 International Conference on Decontamination and Decommissioning, Knoxville, TN, April (also at Oak Ridge National Laboratory and the Association of American Geographers, San Francisco, all in April).
- 1993 The new nuclear decommissioning paradigm, Joint Symposium on the Strategic Management of Nuclear Power, Washington, D.C., April (invited speech).
- From EcoWatts to EcoHomes, The Natural Connection, Scottsdale, AZ (invited).
- Nuclear power plant decommissioning, University of Texas Department of Geography, April (invited colloquium).
- Breaking up is hard to do, Texas A&M University, April (invited colloquium).
- 1992 The Three Landscapes of Southern California, Annual Meeting of the AAG, April, San Diego.
- Chair, Environmental Linkages to Energy Development, Annual Meeting of the AAG, April, San Diego.
- Facing the Responsibilities of Our Energy/Environment Conundrum, 1992 Marketing & Customer Services/Communications & Consumer Relations Section Conference for the Northwest Electric Light and Power Association, April 28, Coeur d'Alene, Idaho (invited Keynote Address).
- 1991 Inadvertent Intrusion in the Waste Isolation Pilot Plant, Annual Meeting of the AAG, Miami.
- Nuclear decommissioning impacts: wastes and land use perceptions and policy. Presented at 7th International Standing Conference on Low Level Radiation and Health, Bristol, England, UK (invited speech).

- Chair, Workshop on Decommissioning. 7th International Standing Conference on Low Level Radiation and Health, Bristol, England, UK (invited).
- 1990 Nuclear Decommissioning Impacts. Presented at the 1990 Energy and the Environment Conference and Exhibition, Sept. 26-28, Denver (invited presentation).
- Nuclear oversight: a critical analysis of the public element in decommissioning policy. Presented at the conference, Energy and the Environment in the 1990s, Kent State University, April 5 (invited presentation).
- 1989 Geosocial costs of nuclear decommissioning in the US and UK. Western Economic Association International, Lake Tahoe, June 20 (invited presentation).
- Unexamined costs of nuclear decommissioning in the US and Great Britain. 85th Annual Meeting of the AAG.
- 1987 Hazardous materials from site-specific energy development. Presented at the 83rd Annual Meeting of the Association of American Geographers, April, Portland, (with Mark Dellinger).
- Public opinion regarding transmission facilities from wind farm development in the San Geronio Pass-Palm Springs, California Area. Presented at the Annual Meeting of the American Sociological Association, August.
- Land use conflicts and public opinion regarding wind energy development in the San Geronio Pass. Presented at the American Wind Energy Association - RETSIE Wind Symposium (The Renewable Energy Technologies Symposium & International Exposition), Anaheim, June.
- Decommissioning: the next nuclear gamble. (Open University, Milton Keynes; Regional Studies Association, London; Kingston Polytechnic.)
- 1986 Uncertainties surrounding decommissioning nuclear plants: evidence from England's Sizewell 'B' public inquiry. Presented at the 82nd Annual Meeting of the Association of American Geographers, Minneapolis. Session Chair. Solar and Wind Energy. 82nd Annual Meeting of the Association of American Geographers, Minneapolis.
- 1985 Nuclear power plant decommissioning. Presented at the Annual Meeting of the Institute of British Geographers, Geographers, University of Leeds, England, January.
- Problems with nuclear power plant decommissioning. Cavendish Laboratory, University of Cambridge, England (invited presentation).
- Cowboys and coal: the shrinking American West (University of Southampton, University of Hull, Kingston Polytechnic, University of Cambridge (invited presentation).

1984 CERT, social issues, and soft paths. Conference on Community Energy Planning, May 3-5. University of Arizona Conference Center, Oracle (invited presentation).

Decommissioning of nuclear power plants: The land use context. Presented at the 80th Annual Meeting of the Association of American Geographers, Washington, D.C., April.

1983 Honors Professor Lecture Series, Arizona State University (four seminars on decommissioning of nuclear power plants).

Geography and nuclear energy: a review, presented at the 79th Annual Meeting of the Association of American Geographers, Denver, Colorado, April.

1982 The geography of a nuclear power plant. Presented at the 78th Annual Meeting of the Association of American Geographers, San Antonio, Texas, April.

1981 Session Chair, Regional Energy Development. The 77th Annual Meeting of the Association of American Geographers, Los Angeles, 19-22 April.

Land use planning for geothermal development. Presented at Applied Geography Conference, Tempe, Arizona.

Land use considerations in nonelectric geothermal development in Arizona. Presented at Conference on Energy and Planning, American Institute of Planners, Mesa, Arizona.

Solar energy and coal: A comparison of land use requirements. Presented at Arizona Solar Energy Association/Arizona Solar Energy Commission: "Solar Projects in Arizona," A Joint Conference, Tempe.

Land use considerations in nonelectric geothermal development. Presented at 77th Annual Meeting of the Association of American Geographers, Los Angeles, April.

Geothermal energy development. Louisiana State University.

Geothermal energy and land use. Texas A&M University.

1980 Chair, Energy Session II. The 76th Annual Meeting of the Association of American Geographers, Louisville, KY

Solar energy and coal: a comparison of land use requirements. Presented at American Association for the Advancement of Science/Arizona-Nevada Academy of Science, Las Vegas, Nevada.

Geothermal energy and the environment. Presented at the 76th Annual Meeting of the Association of American Geographers, Louisville, Kentucky.

- 1979 Introduction to geothermal energy resources. Presented at Northern Arizona University, Summer Energy (invited)
- Energy-related forced migration. Presented at the Annual Meeting of the Arizona-Nevada Academy of Sciences, Tempe, Arizona.
- Land use and energy: a comparison of resources. Presented at the 75th Annual Meeting of the Association of American Geographers, Philadelphia, PA.
- 1978 Resources and environment. Presented at the Annual Meeting of the Arizona-Nevada Academy of Sciences, Flagstaff, Arizona, April.
- Geothermal energy in Imperial County, California: Research conclusions and policy implications. Presented at the Annual Meeting of the American Association for the Advancement of Science, Washington, D.C.
- Land use planning aspects of energy development. Presented at the Annual Meeting of the American Society of Public Administration, Phoenix, Arizona.
- Nonelectric geothermal potential in Arizona and California. Presented at the Annual Meeting of the Association for Arid Lands Studies, Denver, Colorado.
- 1977 Geothermal energy, landscape and development. Presented at the Annual Meeting of the Association of Pacific Coast Geographers, Hilo, Hawaii.
- Three steps to more energy: An example from geothermal development in the Imperial Valley of California. Presented at the Annual Meeting of the Association of Pacific Coast Geographers, Hilo, Hawaii.
- 1976 Organizer and Chair, Special Double Session on Geothermal Energy, Annual Meeting of the Association of Pacific Coast Geographers, Tucson, Arizona, June.
- Geography and Geothermal Development in the Imperial Valley of California. Presented at the Annual Meeting of the California Council for Geographic Education, Long Beach, California.
- The Importance of Cultural Geography to Geothermal Development in the Imperial Valley of California. Presented at the Annual Meeting of the Association of Pacific Coast Geographers in Tucson, Arizona.

GRANTS AND CONTRACTS

- 2002 Environmental Dispatch at the Panda Gila River Power Plant, TECO Power, Tampa, Florida

- 1994 Environmental Benefits of Saved Energy in the Environmental Showcase Home, Arizona Public Service, Phoenix, AZ
- 1993 Oversight and Summary of the Environmental Showcase Home project, Arizona Public Service, Phoenix, AZ
- 1989 The Social Impacts of Urban Oil Development, College of Liberal Arts and Sciences, Arizona State University.
- 1988 Nuclear Decommissioning and the Public. World Wild Fund for Nature (UK).
- 1986 Managing Hazardous Waste at The Geysers geothermal field, College of Liberal Arts, Arizona State University.
- 1983 Alternatives for Decommissioned Nuclear Power Plant Sites (with K. D. Pijawka and P. McClain), Arizona State University Research Fund.
- 1982 Resource-Second Geothermal Development, City of Scottsdale.
- 1982 Geothermal Development Planning, U.S. Dept of Energy.
- 1981 Pre-College Teacher Development in Energy Education, National Science Foundation, (with B. Tillery).
- 1980 Pre-College Teacher Development in Energy Education, National Science Foundation, (with B. Tillery)
- The Spatial Variability of Solar Energy in Arizona, Arizona State University Provost Research Fund, (with A.J. Brazel).
- Geothermal Energy and Land use in Phoenix, Arizona State University Grant-in-Aid.
- The Land Use Requirements of Solar Energy and Coal; Arizona Solar Energy Commission.
- 1979 Energy Choices and Social Change in Arizona, U.S. Department of Energy.
- 1975 Geothermal Development in Imperial County, California, National Science Foundation, (with others).

PROFESSIONAL SERVICE

International

- 2003 - Associate Editor - *Environmental Science*
- 2005 - Editorial Board – *International Journal of Low Carbon Technologies*
- 1992 - Editorial Board - *Land Use Policy*

National

- 2005 - Member, National Wind Coordinating Committee, Siting Committee
- 2004 - Member, Steering Committee, Education for Sustainability Western Network (ASU is charter member)
- 1988 - Chair, Awards Committee, Energy and Environment Specialty Group of the Association of American Geographers
- 1996-99 Chair, Energy and Environment Specialty Group, Association of American Geographers.
- 1992-93 Member, US Congress Office of Technology Assessment, Advisory Panel on Aging Nuclear Power Plants: Life Attainment, License Renewal, and Decommissioning.
- 1992-93 Member, Advisory Panel on Controlling the Atom in the 21st Century, Natural Resources Defense Council.
- 1990-92 Member, Expert Panel on Inadvertent Intrusion into the Waste Isolation Pilot Plant, US Department of Energy
- 1992 Chair, Paper Sessions, Energy and Environment Specialty Group of the AAG, Annual Meeting. San Diego.
- Field trip leader: The Three Landscapes of Southern California. Annual Meeting of the AAG, San Diego.
- 1987-89 Member, Committee on Scientific Freedom Responsibility of the Association of American Geographers
- 1984-87 Board of Directors, Energy Specialty Group, Association of American Geographers (elected).
- 1982-84 Chair, Energy Specialty Group, Association of American Geographers (elected).
- 1979-82 Gulf Oil Corporation Faculty Advisory Panel.
- 1979-82 Secretary-Treasurer, Energy Specialty Group, Association of American Geographers (elected).
- 1979 Co-Organizer, Energy Specialty Group, Association of American Geographers.

State and Local

- 2004 - Board of Directors, Universal Energy and Environment (UE2)

- 2003 – 2006 Chair, Arizona Solar Energy Advisory Council (Governor appointee)
- 1997-2006 Member, Arizona Solar Energy Advisory Council
- 2000 - Arizona State Board on Geographic and Historic Names, Member
- 2000 - Member, Board of Directors, Arizona Solar Center
- 1996- 01 City of Tempe Board of Adjustment (Mayor appointee).
- 1993-95 Member, Arizona Comparative Environmental Risk Project (Governor appointee).
- 1992-93 Education Advisory Board, EcoGroup, Inc. Tempe, Arizona
- 1992-90 Energy Education Advisory Board, Arizona Energy Office.
- 1984-90 Member, Executive Committee, Arizona Energy Data System, Arizona State Energy Office.
- 1990 Judge, Environmental Excellence Awards, 1990 Valley Forward Association, Phoenix.
- 1989 Air Pollution in the Valley of the Sun: What You Can Do. Presented as part of the annual Arizona Close Up (state-wide meeting of high school students), Mesa, February 11.
- 1988-90 Chair, Rural/Geneva Neighborhood Association, Tempe, Arizona (land use issues)
- 1984 Panelist, Conference on Community Energy Planning, University of Arizona Conference Center, Oracle, May 3-5.
- 1979-84 Member, Advisory Council on Energy Education.
- 1980-81 Advisory Panel, Alternatives in Arizona Electric Power Production and Consumption, League of Women Voters, Phoenix.
- 1981 Invited presentation. The desert environment. Presented as part of Footprints: A Discovery and Celebration of Arizona Heritage, The Heard Museum, Oct. 6.
- 1980 Invited presentation. Glacial landscapes in the Sierra Nevada and Rocky Mountains. A presentation before the Grinnel Natural History Society, Pueblo Grande, Phoenix, Feb. 13.
- Invited presentation. Issues and dilemmas in our energy future

Keynote address for: You, Energy and the Future: A Conference for High School Students and Teachers, sponsored by the Tempe Garden Club, Arizona State University.

Invited presentation. Today's alternative sources of energy.

Invited presentation for A National Issues Forum: Energy and the Way We Live, Phoenix College, March 7.

1979 Invited presentation. Coal siting problems, clear air act amendments, and environmental impact. A presentation at: A Seminar for Superintendents, Arizona State University.

Invited presentation. Nuclear power. A presentation before the Phoenix Kiwanis Club, Oct. 16.

Invited presentation. Geothermal energy and the environment. A presentation before the Engineering Section of the Palo Verde Operations group, Palo Verde Nuclear Generating Station, September 19.

60 presentations to secondary schools in Phoenix, Tempe, Mesa Glendale, Flagstaff, Kingman, Page, Bisbee, Tucson, Globe, Lakeside, Scottsdale, Yuma, Chandler, Gilbert, Benson on the following topics: Nuclear Energy, Geothermal Energy, Power Plant Siting, Geopolitics of Energy, Ethics and Energy, Socioeconomics of Energy.

University

- 2003 - ASU Sustainability Operations Committee, Member (appointed by the Vice President)
- 2003 - ASU Sustainable Technologies Committee, energy
- 2001 - ASU Energy Conservation Committee, Member (appointed by the Dean)
- 1999 - Faculty Committee, Global Technology and Development Masters Degree Program, Member
- 1996-98 Campus Community Advisory Board, Member
- 1994-95 Environmental Committee, Member (appointed by the Provost)
- 1992-96 Demand-Side Management Committee, Member (appointed by the Provost)
- 1992-93 Academic Freedom and Tenure Committee, Member
- 1984-88 Ad Hoc University Energy Committee, Chair
Tri-University Energy Committee, Member
- 1985-87 Fulbright-Hayes Scholarship Committee, Member
- 1985-88 University Energy Management Committee, Member
- 1980- Interdisciplinary Studies on Energy, Chair
- 1984-85 Financial Affairs and Physical Plant Committee of the Faculty Senate, Member

1983-84 Academic Senator
1978-79 Solar Energy Research Committee, Member

College of Liberal Arts and Sciences

2004 - Strategic Planning Committee Meeting for the Institute for Social Science Research
2004 - College Curriculum Committee
1995-97 Dean's Strategic Planning and Academic Resources Advisory Council, Member
1993-96 Dean's Committee of Review, Member
1990-92 Standards Committee, Member
1980-83 Standards Committee, Member
Faculty Honors Council, Member
1982-83 Standards Committee, Chair
1982 Honors Director Search Committee, Chair

Department

2003- Chair, Graduate Committee
2002 Forum Co-Director
1999-2001 Chair, Personnel Committee
1999-2000 Chair, Graduating Recruiting Committee
1997-98 Chair, MA Committee
1997-98 Colloquium Co-Director
1995-97 Chair, Personnel Committee
1995-97 Executive Committee
1994-95 Recording Secretary
1992-96 PhD Committee, Member
1991-94 Affirmative Action Committee, Member
1991-94 Faculty Development Liaison
1990-91 Chair, Colloquium Committee
Chair, Personnel Committee
1989-90 Chair, Long-Range Planning Committee
Ad Hoc Land Use Committee, Member
1988-89 M.A. Committee, Member
Affirmative Action Committee, Member
1985-87 Chair, Local Events and Fund-Raising, Annual Meeting of the Association of American Geographers, Phoenix, 1988
1985-88 Personnel Committee, Member
1985 Chair, Faculty Search Committee
1985-86 Executive Committee, Member
1978-90 Honors Representative
1978- Library Representative
1982-83 Personnel Committee, Member
Chair, M.A. Committee
1981-82 M.A. Committee, Member
1981 Chair, Faculty Search Committee
Ad Hoc Committee on Work Load Policy, Member
1980-81 Chair, Personnel Committee

1979-80 Chair, Budget Committee
 Personnel Committee, Member
 Undergraduate Committee, Member

General

- Peer Reviews - Proposals
Arizona Solar Energy Commission
National Science Foundation
University of West Virginia
U.S. Department of Energy
National Oceanographic and Atmospheric Administration
- Peer Reviews - Journals
Annals of the Association of American Geographers
Contemporary Policy Issues
Environmental Science
Environmental Politics
Geographical Review
Growth and Change
GeoJournal
Journal of Cultural Geography
Journal of the American Planning Association
Journal of the Arizona/Nevada Academy of Sciences
Journal of Regional Science
Land Use Policy
Professional Geographer
Science
Social Science Quarterly
Society and Natural Resources

Graduate Committees (* indicates service as titular chair for student in a department other than geography)

Alethea L. Kimmel-Guy (Ph.D.), Chair
Rachel Hixon (MA), Chair
Scott Kelley (MA), Chair
Elizabeth Troncone (MA), Chair - 2006
Matthew Lord (PhD), Chair (left program 12/2005)
Camden Herzfeld (MA), Chair
Jonathan Grindell (MA), Member
Heather Kincade-Levario (PhD), Member
John Keane (Ph.D.), Chair - 2004
Jacob Sowers (MA), Chair - 2003
Matthew Taylor (Ph.D.), Chair - 2003
Alfred Simon (Ph.D.), Chair - 2002
Duncan Schaeffer (Ph.D.), Member - 2001
Britt Dveris* (M.A., Environmental Planning) - 1999
Sheila Conway (M.A.), Chair - 1999
Curtis Davidson (M.A.), Chair - 1999
Kevin Blake (Ph.D.), Member - 1996

Ronald Wood (M.A., Environmental Planning), Member - 1997
John Catapano (M.A., Bard College, NY), Member - 1996
Thomas Hines (M.A., Environmental Planning), Member - 1996
Candace Gossen* (M.A., Architecture) - 1993
Denis A. Luz (M.A., Architecture), Member - 1993
Wolf Piotrasschki (M.A., Architecture), Member - 1991
William Mennucci (M.A.), Chair - 1991
Jeffrey Lee (Ph.D.), Member - 1990
Mary McPhearson (Ph.D.), Member - 1989
Byron Miller (M.A.), Chair - 1984
Richard Earl (Ph.D.), Member - 1983
Kevin Mundell (M.A.), Chair - 1983
Clemenc Ligocki (M.A.), Member - 1982
Andrew Marcus (M.A.), Member - 1982
Gary Powell (Ph.D.), Member - 1982
Milt Stamatis (M.A., Environmental Planning) Member - 1982
Thomas Hooks (M.A.), Member - 1980

Media Interviews (resulting in articles/broadcasts)

Newspapers

Arizona Daily Star (Tucson) (2001)
Arizona Republic (1979, 1980, 1983, 1984, 1987, 1988, 1989, 2001)
Chicago Sun Times (1993)
Christian Science Monitor (1984)
The Guardian (London)(1991)
Los Angeles Times (1984)
Omaha Globe-Herald (1993)
Phoenix Gazette (1988)
San Diego Union Tribune (2001)
Scottsdale Daily Progress (1983, 1984)
The Post-Standard (Syracuse, N.Y.) (1990)
East Valley Tribune (1989, 1988, 1984, 1983, 1990, 2000)
New Times (Phoenix) (1987, 1989)

Radio and TV

KJZZ (National Public Radio) 2003, 2004
ABC (Australian Broadcasting Corporation) (2002)
KPHO (CBS affiliate, Phoenix, AZ) (2001)
WFCR (National Public Radio, Amherst, MS) (1993)
WILL (National Public Radio, Illinois) (1991)
BBC-TV (Britain) (1991)
CTV (Britain) (1991)
Radio Gloucester (Britain) (1991)
Radio Bristol (Britain) (1991)
KFYI-AM (1991)
KFY-FM (1991)
CNN (1990)
German Public Radio (1989)
KTAR-AM (1989)

KTVK-TV (1984)
KOOL-FM (1980)
KTSP-TV (1979, 1980, 1981)
KPHO-TV (1979)

Magazines

Organica (1993)
Sierra (1992)
Smithsonian Magazine (1989)

CONSULTING CLIENTS

A&C Enercom, Atlanta and Phoenix
Albert A. Webb, Associates, Riverside, California
Arizona Public Service Company
EcoGroup, Tempe
Friends of the Earth (United Kingdom)
Natural Resources Defense Council (Washington, D.C.)
Riverside County, California
Provident Oil Refinery Company, Phoenix
City of Scottsdale
OnPointSystems, Inc.
Treon, Strick, Lucia & Acuirre, Attorneys at Law, Phoenix
Teco Power, Tampa, Florida

PROFESSIONAL AFFILIATIONS

Association of American Geographers
Association of Pacific Coast Geographers
Grand Canyon Trust
Society for the History of Technology
Sustainable Energy Network

CLASSES OF INSTRUCTION

Freshman

Introduction to Physical Geography

Sophomore

Physical Environments
Introduction to the Study of Energy
Cultural Geography
Climatology

Junior

Geography of the United States and Canada
Energy in the Global Arena
Geography of Natural Resources

Senior

Energy and Environment

Graduate

Contemporary Geographic Thought

Advanced Research Methods
Energy in the Arts
Energy and Land Use
Landscapes of Power/Reading the Energy Landscape

TEMPORARY APPOINTMENTS

- | | |
|---------|--|
| 1988 | Professor, Department of Geography, University of Colorado, Boulder (summer) |
| 1987 | Exchange Professor, School of Geography, Kingston Polytechnic, Kingston, Surrey, England (fall) |
| 1984-85 | Professor, Department of Geography, Arizona State University, London Program, London, England |
| 1977 | Assistant Research Geographer, Dry Lands Research Institute, University of California; Riverside, California |
| 1975-77 | Staff Research Associate, Department of Earth Sciences, University of California; Riverside, California |
| 1975-77 | Instructor, Department of Geography, San Bernardino State University |
| 1972-74 | Instructor, Crafton Hills Community College, Yucaipa, California. |

PERSONAL DATA

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[Revised: August 2006]