

Krystyna Anne Stave, Ph.D.
School of Environmental and Public Affairs
Greenspun College of Urban Affairs
University of Nevada Las Vegas
4505 Maryland Parkway, Box 454030
Las Vegas, NV 89154-4030
(702) 895-4833
e-mail: krystyna.stave@unlv.edu

EDUCATION

Ph.D. Watershed Management (1998)

School of Forestry and Environmental Studies, Yale University New Haven, CT

M.S. Resource Systems Analysis and Policy Design (1986)

Thayer School of Engineering, Dartmouth College Hanover, NH

B.S. Operations Research/Industrial Engineering (1982)

School of Engineering, Cornell University Ithaca, NY

PROFESSIONAL EXPERIENCE

Associate Professor of Environmental Studies with tenure (2003-present)

School of Environmental and Public Affairs, University of Nevada Las Vegas, NV (2009-present)

Department of Environmental Studies, University of Nevada Las Vegas, NV (2003 – 2009)

Assistant Professor (1997-2003)

Department of Environmental Studies, University of Nevada Las Vegas, NV

Instructor (1992-1994)

Yale University, New Haven, CT

Hydrology and Water Resource Management (Fall 1994)

Ecosystem Measurement Field Training Module (Summer 1992 and 1993)

Research Associate (1988-1990)

International Service for National Agricultural Research (ISNAR), The Hague, Netherlands

REFEREED PUBLICATIONS

Journal Articles

Pollard, J., J. Cizdziel, K. Stave, and M. Reid. 2007. Selenium Concentrations in Water and Plant Tissues of a Newly Formed Arid Wetland in Las Vegas, Nevada. *Environmental Monitoring and Assessment* 135:447-457 (10 pages).

Stave, K.A. 2003. A System Dynamics Model to Facilitate Public Understanding of Water Management Options in Las Vegas, Nevada. *Journal of Environmental Management* 67:303-313. (11 pages).

Stave, K.A. 2002. Using system dynamics to improve public participation in environmental decisions. *System Dynamics Review* 18(2). (29 pages).

- Lenon, N., K.A. Stave, T. Burke, and J. Deacon. 2002. Bonytail (*Gila elegans*) May Enhance Survival of Razorback Suckers (*Xyrauchen texanus*) in Rearing Ponds by Preying on Exotic Crayfish. *Journal of the Arizona-Nevada Academy of Sciences* 34(1):46-52 (7 pages).
- Stave, K.A. 2001. Dynamics of Wetland Development and Resource Management in Las Vegas Wash, Nevada. *Journal of the American Water Resources Association* 37(5):1369-1379 (10 pages).

Refereed Conference Proceedings Papers and Abstracts

- Stave, K.A. and M.J. Turner. 2009. Experimental Comparison of System Dynamics versus Traditional Facilitation in a Real World Public Participation Application. *Proceedings of the 27th International Conference of the System Dynamics Society*. Albuquerque, New Mexico, July 26-30, 2009. Available at: <http://www.systemdynamics.org/conferences/2009/proceed/index.html>.
- Skaza, H.J. and K.A. Stave. 2009. A test of the relative effectiveness of using systems simulations to increase student understanding of environmental issues. *Proceedings of the 27th International Conference of the System Dynamics Society*. Albuquerque, New Mexico, July 26-30, 2009. Available at: <http://www.systemdynamics.org/conferences/2009/proceed/index.html>.
- Tabacaru, M., B. Kopainsky, A. Sawicka, K.A. Stave, and H. Skaza. 2009. How can we assess whether our simulation models improve the system understanding for the ones interacting with them? *Proceedings of the 27th International Conference of the System Dynamics Society*. Albuquerque, New Mexico, July 26-30, 2009. Available at: <http://www.systemdynamics.org/conferences/2009/proceed/index.html>.
- Stave, K.A. 2008. Zero Waste by 2030: A system dynamics simulation tool for stakeholder involvement in Los Angeles' solid waste planning initiative. *Proceedings of the 26th International Conference of the System Dynamics Society*. Athens, Greece, July 20-24, 2008. Available at: <http://www.systemdynamics.org/conferences/2008/proceed/index.htm>.
- Dwyer, M. and K.A. Stave. 2008. Group Model Building Wins: The results of a comparative analysis. *Proceedings of the 26th International Conference of the System Dynamics Society*. Athens, Greece, July 20-24, 2008. Available at: <http://www.systemdynamics.org/conferences/2008/proceed/index.htm>.
- Hopper, M. and K.A. Stave. 2008. Assessing the Effectiveness of Systems Thinking Interventions in the Classroom. *Proceedings of the 26th International Conference of the System Dynamics Society*. Athens, Greece, July 20-24, 2008. Available at: <http://www.systemdynamics.org/conferences/2008/proceed/index.htm>.
- Stave, K.A. and M. Hopper. 2007. What Constitutes Systems Thinking? A Proposed Taxonomy. *Proceedings of the 25th International Conference of the System Dynamics Society*. Boston, MA, July 29-August 3, 2007. Available at: <http://www.systemdynamics.org/conferences/2007/proceed/index.htm>.
- Fincher, S. and K.A. Stave. 2007. A Proactive Approach for Particulate Matter Air Pollution Management. *Proceedings of the 25th International Conference of the System Dynamics Society*. Boston, MA, July 29-August 3, 2007. Available at: <http://www.systemdynamics.org/conferences/2007/proceed/index.htm>.
- Baxter, B.A., K. A. Stave, H.S. Agarwal, J. Koswan, W. Cates. 2006. Unique Airborne Sampling of Ozone Using Glider and Light Aircraft. Air & Waste Management Association 99th Annual Conference & Exhibition, New Orleans, LA on June 20-23, 2006. [peer-reviewed]
- Stave, K.A. and M. Dwyer. 2006. Lessons from LUTAQ: Building systems thinking capacity into land use, transportation, and air quality planning in Las Vegas, Nevada. (Full Paper). *Proceedings of the 24th International Conference of the System Dynamics Society*. Nijmegen, Netherlands, July 23-27, 2006.
- Fincher, S. and K.A. Stave. 2006. Managing PM₁₀ in the Las Vegas Valley. (Full Paper). *Proceedings of the 24th International Conference of the System Dynamics Society*. Nijmegen, Netherlands, July 23-27, 2006.

- Hopper, M. and K.A. Stave. 2006. Comparing the Effectiveness of System Dynamics with Traditional Methods of Learning about Wetland Ecosystems. (Full Paper). *Proceedings of the 24th International Conference of the System Dynamics Society*. Nijmegen, Netherlands, July 23-27, 2006.
- Stave, K.A. and M. Dwyer. 2005. A Group Model Building Process to Integrate Land Use, Transportation, and Air Quality Planning in Las Vegas, Nevada. (Full Paper). *Proceedings of the 23rd International Conference of the System Dynamics Society*. Boston, MA, July 17-23, 2005.
- Dwyer, M. And K.A. Stave. 2005. Modeling the Relationship between Population and Land Development under Changing Land Use Policies. (Full Paper). *Proceedings of the 23rd International Conference of the System Dynamics Society*. Boston, MA, July 17-23, 2005.
- Stave, K.A. and M. Dwyer. 2004. The Process of Problem Definition in a Group Model Building Project for Sustainable Urban Planning in Las Vegas, Nevada. (Abstract). *Proceedings of the 22nd International Conference of the System Dynamics Society*. Oxford, England, UK, July 25-29, 2004.
- Dwyer, M. And K.A. Stave. 2004. A Conceptual Framework for Applying System Dynamics to the Question of Urban Growth. (Abstract). *Proceedings of the 22nd International Conference of the System Dynamics Society*. Oxford, England, UK, July 25-29, 2004.
- Stave, K.A., L. Upham, S. Fincher, and K. Barchard. 2003. Evaluating the Effectiveness of Simulation-based Instruction about Water Resources in the Middle School Science Classroom. (Abstract). *Proceedings of the 21st International Conference of the System Dynamics Society*. New York City, NY, July 20-24, 2003.
- Graves, Y. and K.A. Stave. 2003. A Model to Understand Population Decline of the Devil's Hole Pupfish (*Cyprinodon diabolis*) and Support Habitat Management Decisions. (Abstract). *Proceedings of the 21st International Conference of the System Dynamics Society*. New York City, NY, July 20-24, 2003.
- Stave, K.A. and R.E. Little. 2002. A Model to Support Stakeholder Evaluation of Transportation Policy Options in Las Vegas, Nevada. (Full paper) *Proceedings of the 20th International Conference of the System Dynamics Society*, July 28-August 1, 2002. Palermo, Italy.
- Stave, K.A. 2001. Part I: A system dynamics model for examining water management policy options in Las Vegas, NV. (Abstract). *Proceedings of the 19th International Conference of the System Dynamics Society*. Atlanta, GA, August 6-10, 2001.
- Cloud, S.W. and K.A. Stave. 2001. Part II: Evaluating the potential of system dynamics modeling for improving public participation in water resource management. (Abstract). *Proceedings of the 19th International Conference of the System Dynamics Society*. Atlanta, GA, August 6-10, 2001.
- Little, R.E. and K.A. Stave. 2001. Part III: Preliminary development toward a web-based learning environment to broaden the audience for systems learning about water management in Las Vegas, Nevada. (Abstract). *Proceedings of the 19th International Conference of the System Dynamics Society*. Atlanta, GA, August 6-10, 2001.
- Stave, K.A. and S. Cloud. 2000. Using System Dynamics Models to Facilitate Public Participation in Water Resource Management: A Pilot Study using the Las Vegas, NV Water System. (Full Paper) *Proceedings of the 18th International Conference of the System Dynamics Society*. August 7-10, 2000. Bergen, Norway.
- Stave, K.A. and L. Armijo. 2000. The Las Vegas Wash: A Changing Urban Commons in a Changing Urban Context. (Full paper) *Proceedings of the Eighth Biennial Conference of the International Association for the Study of Common Property (IASCP)* (online). May 31-June 4, 2000, Bloomington, IN.
- Stave, K.A. 1996. Describing the Elephant: Multiple Perspectives in New York City's Watershed Protection Conflict. (Full paper) In: *Proceedings of the Watershed '96 conference*, June 8-12, 1996, Baltimore, MD. Water Environment Federation.

- Stave, K.A. 1995. Resource Conflict in New York City's Catskill Watersheds: A Case for Expanding the Scope of Water Resource Management. (Full paper) Pages 61-68 in: Austin, L.H., ed. 1995. *Water in the 21st Century: Conservation, Demand and Supply*. Proceedings of the AWWRA Annual Spring Symposium. American Water Resources Association, Herndon, Virginia, TPS-95-1, 740 pages.
- Barten, P.K. and K.A. Stave. 1995. Using GIS to Identify Critical Areas for Water Quality Protection in New York City's Water Supply System. (Full paper) Pages 623-632 in: Austin, L.H., ed. 1995. *Water in the 21st Century: Conservation, Demand and Supply*. Proceedings of the AWWRA Annual Spring Symposium. American Water Resources Association, Herndon, Virginia, TPS-95-1, 740 pages.

PRESENTATIONS

- Stave, K.A. 2008. Zero Waste by 2030: A system dynamics simulation tool for stakeholder involvement in Los Angeles' solid waste planning initiative. Parallel session presentation at the 26th International Conference of the System Dynamics Society. Athens, Greece, July 20-24, 2008.
- Dwyer, M. and K.A. Stave. 2008. Group Model Building Wins: The results of a comparative analysis. Parallel session presentation at the 26th International Conference of the System Dynamics Society. Athens, Greece, July 20-24, 2008.
- Hopper, M. and K.A. Stave. 2008. Assessing the Effectiveness of Systems Thinking Interventions in the Classroom. Poster presentation at the 26th International Conference of the System Dynamics Society. Athens, Greece, July 20-24, 2008.
- Stave, K.A. and M. Hopper. 2007. What Constitutes Systems Thinking? A Proposed Taxonomy. Poster presentation at the 25th International Conference of the System Dynamics Society. Boston, MA, July 29-August 3, 2007.
- Stave, K.A. and M. Dwyer. 2006. Lessons from LUTAQ: Building systems thinking capacity into land use, transportation, and air quality planning in Las Vegas, Nevada. Parallel session presentation at the 24th International Conference of the System Dynamics Society. Nijmegen, Netherlands, July 23-27, 2006.
- Stave, K.A. 2005. Simulation Models: Effective Decisionmaking Tools for Stakeholder Involvement. Invited presentation to the Nevada Chapter of the International Association for Public Participation (IAP2). Las Vegas, NV, November 9, 2005.
- Dwyer, M. And K.A. Stave. 2005. Modeling the Relationship between Population and Land Development under Changing Land Use Policies. Parallel session presentation at the 23rd International Conference of the System Dynamics Society. Boston, MA, July 17-23, 2005.
- Stave, K.A. and M. Dwyer. 2005. A Group Model Building Process to Integrate Land Use, Transportation, and Air Quality Planning in Las Vegas, Nevada. Poster presented at the 23rd International Conference of the System Dynamics Society. Boston, MA, July 17-23, 2005.
- Stave, K.A. and M. Dwyer. 2004. The Process of Problem Definition in a Group Model Building Project for Sustainable Urban Planning in Las Vegas, Nevada. Poster presented at the 22nd International Conference of the System Dynamics Society. Oxford, England, UK, July 25-29, 2004.
- Dwyer, M. And K.A. Stave. 2004. A Conceptual Framework for Applying System Dynamics to the Question of Urban Growth. Poster presented at the 22nd International Conference of the System Dynamics Society. Oxford, England, UK, July 25-29, 2004.
- Stave, K.A., L. Upham, S. Fincher, and K. Barchard. 2003. Evaluating the Effectiveness of Simulation-based Instruction about Water Resources in the Middle School Science Classroom. Poster presented at the 21st International conference of the System Dynamics Society, New York City, July 20-24, 2003.
- Graves, Y. and K.A. Stave. 2003. A Model to Understand Population Decline of the Devil's Hole Pupfish (*Cyprinodon diabolis*) and Support Habitat Management Decisions. Poster presented at the 21st

- International conference of the System Dynamics Society, New York City, July 20-24, 2003.
- Stave, K.A. and R.E. Little. 2002. A Model to Support Stakeholder Evaluation of Transportation Policy Options in Las Vegas, Nevada. 20th International Conference of the System Dynamics Society, Palermo, Italy, July 28-August 1, 2002.
- Stave, K.A. 2001. A system dynamics model for examining water management policy options in Las Vegas, NV. 19th International Conference of the System Dynamics Society. Atlanta, GA, August 6-10, 2001.
- Stave, K.A., J. Pollard, B. Sillitoe, S. Muth. 2001. Context and Characterization of an Arid, Urban, Multi-Use Wetland System in Las Vegas, NV. 22nd Annual Society of Wetland Scientists Conference, May 31-June 4, 2001. Chicago, IL.
- Stave, K.A. 2000. Stakeholder Analysis for Environmental Problem Solving. HazMat Explo (Nevada Emergency Management Conference), Las Vegas, NV, Dec 13-14, 2000. Presented two three-hour workshops demonstrating the use of the systems model of the Las Vegas Water System for public participation in water management. [Invited]
- Stave, K.A. and S. Cloud. 2000. Using System Dynamics Models to Facilitate Public Participation in Water Resource Management: A Pilot Study using the Las Vegas, NV Water System. 18th International Conference of the System Dynamics Society. Bergen, Norway, August 6-10, 2000.
- Stave, K.A. and L. Armijo. 2000. The Las Vegas Wash: A Changing Urban Commons in a Changing Urban Context. Eighth Biennial Conference of the International Association for the Study of Common Property (IASCP), Bloomington, Indiana, May 31-June 4, 2000
- Stave, K.A. and K. Lederle. 2000. Landscape and Water Quality Change in the Las Vegas Valley, NV Between 1972 and 1998. Arizona/Nevada Academy of Sciences Annual Conference, Tucson, Arizona, April 15, 2000.
- Stave, K.A. and K. Lederle. 2000. Landscape and Water Quality Change in the Las Vegas Valley, NV Between 1972 and 1998. Nevada State GIS Conference, Las Vegas, NV, March 13-14, 2000.
- Stave, K.A. 1999. Science and the Public: The Role of Biology and Hydrology in New York City's Watershed Protection Efforts. UNLV Department of Biological Sciences Seminar Series, Las Vegas, NV, November 19, 1999. [Invited]
- Stave, K.A. and S. Ebbin. 1999. Upstream-Downstream Relationships: Social Constructions and Ecological Imperatives. Political Ecology Society/ Society for Applied Anthropology 1999 National conference, Tucson, AZ, April 22-24, 1999.
- Stave, K.A. 1999. New York City's Watershed Landscape in the Catskill Mountains, NY, U.S. EPA Landscape Ecology Branch Seminar Series, Las Vegas, NV, February 19, 1999. [Invited]
- Stave, K.A. 1996. Redefining Resources: A Systems Perspective on the Conflict between New York City Water Supply Managers and Stakeholders in its Catskill Mountain Water Supply Watersheds. System Dynamics '96, International System Dynamics Society Conference. Boston, MA. 22 July 1996.
- Stave, K.A. 1996. Defining the Watershed Elephant: Multiple Perspectives in New York City's Watershed Management Conflict. Watershed '96 Conference. Baltimore, MD. 10 June 1996.
- Stave, K.A. 1996. The Context of Conflict in New York City's Catskill Mountain Watersheds. Association of American Geographers 92nd Annual Meeting. Charlotte, NC. 12 April 1996.
- Stave, K.A. 1996. Defining the Watershed Elephant: Multiple Perspectives in New York City's Watershed Management Conflict. Invited presentation to the annual conference of the Southern New England Chapter of the Soil and Water Conservation Society. East Windsor, CT. 15 February 1996.
- Stave, K.A. 1995. Resource Use Conflict in New York City's Catskill Watersheds: A Case for Expanding the Scope of Water Resource Management. American Water Resources Association Spring Symposium -- Water in the 21st Century: Conservation, Demand, and Supply. Salt Lake City, UT. 24 April 1995.

Stave, K.A. 1994. The development of New York City's water supply system and watershed protection efforts. Invited presentation and watershed tour for visiting water resource management professionals from Shenzhen, China. 11 June 1994.

MAJOR RESEARCH REPORTS

- Stave, K.A., J. Wardlaw, and M. Dwyer, 2006. Land Use, Transportation and Air Quality (LUTAQ) Model Description, Findings and Recommendations, May 5, 2006. Prepared by K.A. Stave, J. Wardlaw, and M. Dwyer for the Southern Nevada Regional Planning Coalition (SNRPC) Board. Presented to the SNRPC, June 2006.
- Pollard, J. and K.A. Stave. 2004. Final Project Report 2001-2003: *Water Quality Monitoring and Public Outreach at the Nature Preserve in the Clark County Wetlands Park*. Combined Technical Annual Report for Grant #s: 1425-00-FG-30-0073 and 1425-00-FG-30-00734. October 2004. [[Peer-reviewed](#)]
- Stave, K.A. and J. Pollard. 2003. Second Annual Report, covering the period January 2002 - December 2002: *Water Quality Monitoring and Public Outreach at the Nature Preserve in the Clark County Wetlands Park*. Combined Technical Annual Report for Grant #s: 1425-00-FG-30-0073 and 1425-00-FG-30-00734. June 2003. [[Peer-reviewed](#)]
- Piechota, T., J. van Ed, J. Batista, K.A. Stave, and D. James, eds. 2003. Potential Environmental Impacts of Dust Suppressants: "Avoiding Another Times Beach". An Expert Panel Summary. U.S. EPA white paper. [[Peer-reviewed](#)]
- Stave, K.A. and J. Pollard. 2002. First Annual Report, covering the period October 2000 - December 2001: *Water Quality Monitoring and Public Outreach at the Nature Preserve in the Clark County Wetlands Park*. Combined Technical Annual Report for Grant #s: 1425-00-FG-30-0073 and 1425-00-FG-30-00734. February 2002. [[Peer-reviewed](#)]
- Stave, K.A. 2001. Final Report and Documentation of the RTC3 Transportation Model version 1.0 created in support of the Regional Transportation Commission Community Coalition. November 2001.
- Stave, K.A. 2001. Final Technical Report on New Investigator Award: *Assessing Environmental Change in the Las Vegas Valley, NV from 1972 to 1998*. August 31, 2001.
- Stave, K.A. 2001. Final Report: *A Systems Analysis of the Las Vegas Valley Water System*. U.S. Bureau of Reclamation Agreement #: 1425-96-FC-81-05021. August 15, 2001.
- Stave, K.A. and P. Aaron. 2001. Final Report and Environmental Education Training Manual: *Boulder City Wetland Park Water Quality Monitoring and Public Outreach Program*. U.S. Bureau of Reclamation Agreement #: 1425-7-FG-30-01140. July 2001.
- Kinney, W., J. Pollard, and K. Stave. 2000. *Monitoring Plan for The Nature Center at the Clark County Wetlands Park*. Harry Reid Center for Environmental Studies. 36 pages, plus appendices. [[Peer-reviewed](#) by scientists at the Southern Nevada Water Authority, U.S. Fish and Wildlife Service, and U.S. Bureau of Reclamation.]
- Stave, K.A. and P. Aaron. 2000. *Boulder City Wetland Park Water Quality Monitoring Program Annual Report, June 1999-May 2000*. Submitted to U.S. Bureau of Reclamation, December 2000. 150 pages including data and figures.
- Stave, K.A. 1998. *Water, Land, and People: The Social Ecology of Conflict over New York City's Watershed Protection Efforts in the Catskill Mountain Region, NY*. Doctoral Dissertation, Yale University. New Haven, CT.
- Barten, P.K., K.A. Stave, A.T. Cahill, S. Murphy, and J.W. Tone. 1994. *Characterization of streamflow and sediment source areas in the Esopus Creek watershed, Ulster, Greene, and Delaware Counties, New York*. Final Project report, New York City Department of Environmental Protection: Shokan, NY. 166 pages.

- Gapasin, D.P., O. Velarde, and K. Stave. 1990. *Researchers' Profile and Activities at the Visayas State College of Agriculture (Philippines)*. Staff Note SN 90-92. International Service for National Agricultural Research: The Hague, Netherlands.
- Valverde, C., P. Marcotte, and K. Stave. 1989. *An Analysis of Human Resource Capabilities and Constraints in INIAP, Ecuador*. Working Paper No. 25. International Service for National Agricultural Research: The Hague, NL.

RESEARCH AWARDS and GRANTS

- HDR Engineering, Inc. *Development of a Simulation Model for Supporting Los Angeles' Zero Waste Management Initiative*, \$27,500, 2007-2008
- Clark County Department of Environmental Quality and Management (DAQEM), *South County Causal Relationship Model for Air Quality Management*, \$70,000, 2006-2007
- Clark County Department of Environmental Quality and Management (DAQEM), *Mechanizing the PM10 Proportional Rollback Model*, \$79,505, 2005-2006
- Clark County Department of Environmental Quality and Management (DAQEM), *Ozone Measurements Aloft using a Glider Aircraft*, \$16,919, 2005-2006
- Southern Nevada Regional Planning Coalition and Regional Transportation Commission of Southern Nevada, *Land Use, Transportation, and Air Quality System Dynamics Model for Sustainable Integrated Resource Planning in Southern Nevada* \$131,500, 2003-2005
- Applied Research Initiative, *Using System Dynamics for Sustainable Integrated Resource Planning in Southern Nevada*, with David Hassenzuhl, \$69,988, 2003-2005
- U.S. National Park Service, *Production of a Programmatic Environmental Assessment for the Placement of Fixed Climbing Anchors in Wilderness Areas in Joshua Tree National Park*, with Craig Palmer and Jim Pollard, \$38,893, 2003-2004
- U.S. EPA Cooperative Agreement, *Potential Environmental Impacts from the Application of Dust Suppressants to Disturbed Lands*, with Thomas Piechota, David James, Jacimaria Batista, Jeff Van Ee, \$100,000, 2002-2003
- Regional Transportation Commission of Southern Nevada, *Facilitating Group Model-Building for the RTC3 Stakeholder Advisory Process*, \$30,000, 2001
- U.S. Bureau of Reclamation, *Water Quality Monitoring and Public Outreach Program for the Nature Center at the Clark County Wetlands Park*, \$293,093, 2000-2003
- U.S. Bureau of Reclamation, *Boulder City Wetland Park Water Quality Monitoring and Outreach Program*, \$20,000, 2000
- Sam's Club, *Wetlands Outreach for At-risk Students*, with Helen Neill, \$5,000, 2000
- UNLV New Investigator Award, *Assessing Environmental Change in the Las Vegas Valley from 1972 to 1998*, \$9,970, 1999-2001
- U.S. Bureau of Reclamation, *Systems Analysis of the Las Vegas Water System*, \$91,473, 1998-2001
- Las Vegas Urban Resources Partnership, with Darlene Cartier and Tara Pike, \$1,500, 1998-1999
- UNLV Applied Research Initiative, with Darlene Cartier and Tara Pike, \$1,500, 1998-1999
- U.S. Man and the Biosphere Research Grant, with William R. Burch and Paul K. Barten, \$50,000, 1993-1995

PROFESSIONAL AFFILIATIONS

System Dynamics Society, Elected to Policy Council for 2006-2008
System Dynamics Society, Elected Vice-President for Member Services, 2009-2011
Editorial Board, *System Dynamics Review*, Associate Editor, Fall 2006-present

REVIEWER

System Dynamics Review
Journal of Environmental Management
Journal of the American Water Resources Association
Landscape and Urban Planning
Land Use Policy
Ecological Economics

AWARDS

Greenspun College of Urban Affairs, Outstanding Teaching Award, 2007
Greenspun College of Urban Affairs, Outstanding Service Award, 2008

COURSES TAUGHT

| | |
|-------------|--|
| ENV 101 | Introduction to Environmental Science |
| ENV 360 | Environmental Measurement and Analysis |
| ENV 460/660 | Environmental Modeling (Introduction to System Dynamics for Environmental Decision Making) |
| ENV 701 | Environmental Science Graduate Pro Seminar (Research Methods) |
| ENV 702 | Environmental Problem Solving (Critical thinking about environmental problems) |
| ECM 712 | Science of Catastrophes (Systems Thinking for Emergency Management) |

COLLABORATORS AND OTHER AFFILIATIONS

Collaborators

Dr. David Hassenzahl, University of Nevada, Las Vegas
James Pollard, Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas
Dr. Rod MacDonald, State University of New York, Albany
Dr. Sandra Catlin, University of Nevada, Las Vegas

Graduate Advisors

Professor William Burch, Yale University, New Haven, CT
Dr. Paul Barten, University of Massachusetts, Amherst
Professor Dennis Meadows, Emeritus, University of New Hampshire, Durham

Ph.D. Dissertation Advisees (Committee Chair)

Marcia Turner, (Nevada System of Higher Education), University of Nevada, Las Vegas (2008)
Michael Dwyer, (U.S. Bureau of Land Management), University of Nevada, Las Vegas (2007)

Majed Khater, (Clark County Department of Aviation), University of Nevada, Las Vegas (2005)

M.S. Thesis Advisees (Committee Chair)

April Perry Samson, University of Nevada, Las Vegas (2009)

Emerald Laija, University of Nevada, Las Vegas (2008)

Amy Miller Ansari, University of Nevada, Las Vegas (2008)

Stephanie Fincher, University of Nevada, Las Vegas (2007)

Maria Kaseko, University of Nevada, Las Vegas (2005)

Susan Jones, University of Nevada, Las Vegas (2005)

Yuri Graves, University of Nevada, Las Vegas (2004)

Rosangela Brazao, University of Nevada, Las Vegas (2003)

Sharee Lynne Bowdidge, University of Nevada, Las Vegas (2002)

Sarah Cloud, University of Nevada, Las Vegas (2001)

COMMUNITY AFFILIATIONS

Las Vegas Valley Soaring Association, Vice-President, 2006 and 2008