

## *Curriculum Vitae*

**Melanie Lenart, Ph.D.**

melenart@email.arizona.edu

<http://www.u.arizona.edu/~mlenart/>

### ***Current Activities***

**Adjunct Professor** Department of Soil, Water and Environmental Science, University of Arizona. Instructor of *Translating Environmental Science* (SWES 415/515), a three-unit course on environmental writing taught each spring since 2009.

**Environmental scientist and writer** Scientific work includes contracted climate projects with the University of Arizona Institute of the Environment and University Cooperative Extension, while freelance writing projects include articles published in *Landscape Architecture Magazine*, *The New Southwest*, *Nature Reports Climate Change* and *High Country News*.

**Author** *Life in the Hothouse: How a Living Planet Survives Climate Change*, a 256-page single-author, peer-reviewed trade book released in April 2010 by the University of Arizona Press.

### ***Education***

**August 2003** Ph.D. in Natural Resources and Global Change, *University of Arizona*, Tucson. Began program in August 1996, with a dual affiliation with the School of Natural Resources and the Laboratory of Tree-Ring Research. Committee members: Waite Osterkamp, Frederick Scatena, Malcolm Hughes, Phillip Guertin, Steven Leavitt.

**May 1992** M.S. in Forestry, *University of Illinois*, Champaign-Urbana. Began program in January of 1989, focusing on tropical forest ecology and carbon cycling. Mentor: Sandra Brown.

**June 1989** Spanish studies in *Cuernavaca Intensive Language Program*, Mexico. Later became conversant in Spanish while covering the news in Puerto Rico.

**May 1984** B.A. in Journalism, *Northern Illinois University, DeKalb*. Specialized in magazine journalism and French.

**May 1983** *Certificat de français*, *Centre Universitaire d'Etudes Françaises, Université de Langues et Lettres de Grenoble*, France. University-based program ran from February through April, and included attendance in film and politics courses as well as French classes.

**1979-1980 and 1987-1988** *Moraine Valley Community College*, Palos Hills, Illinois. Occasional college courses to fill in general education and, later, science requirements for degree programs.

## ***Teaching Experience***

**January-May 2009, 2010, 2011.** Instructor, University of Arizona Department of Soil, Water and Environmental Science. Primary instructor for three-unit environmental writing course *Translating Environmental Science* (SWES 415/515). The course teaches up to 20 science and writing students the basics of journalism with an emphasis on science, including interpreting graphics and converting from scientific units. The course is expected to be offered annually.

**October 2, 2010.** Instructor for one-day workshop *Sharing Ideas: Writing Perspectives and Op-eds*, offered to University of Arizona female faculty members. Sponsored by the UA Commission on the Status of Women.

**April 23-25, 2010.** Instructor for weekend workshop on *Writing Environmental Stories*, a two-credit workshop offered through Pima Community College, Tucson.

**August-December 2001** Teaching assistant, *Environmental History of the Southwest* (GEOS 220), University of Arizona. The position involved lecturing on climate change in the Southwest, coaching students and grading their work. Primary instructors: Paul Sheppard and Jeffrey Dean.

**January-May 1999, August 1999-May 2000** Teaching assistant, *Introduction to Global Change* (NATS 101), University of Arizona. Participated in teaching team that emphasized in-class group work. Position involved lecturing on forests and the carbon cycle, mentoring students and grading their work. Primary instructor: Katherine Hirschboeck.

**August 1997-May 1998** Teaching assistant for *Introduction to Global Change* (GEOS 107), University of Arizona. Led biweekly two-hour laboratory/discussion sessions. Prepared and graded lab exercises, lectured on topics including rising carbon dioxide levels, global deforestation and the thinning ozone layer. Primary instructor: Steven Leavitt.

**January to May 1991** English-as-a-Second-Language instructor, tutoring individuals in *Tokyo, Japan*, while on break from field work in China.

**August 1990-December 1990** Visiting lecturer, *Xi Jiang University, Zhaoqing, China*. Lectured on a variety of topics to improve English listening skills and writing ability of 180 undergraduate students who were divided into three Saturday classes of two hours each.

## ***Journalism and Writing Experience***

**October 2007-Present** Freelance writer, including as author of the trade book, *Life in the Hothouse* (released April 2010 by the University of Arizona Press). Monthly column is published in the Tucson-based *The New Southwest*. Articles in periodicals including *Landscape Architecture*, *Nature Reports Climate Change* and *High Country News*.

**October 2010-May 2011** Writer for the Cooperative Extension Community of Practice website on Climate, Forests and Woodlands. Job involved writing some original articles and editing existing articles to make them more compatible for the COP website.

<http://www.extension.org/climate%20forests%20woodlands>

**June-September 2008** Feature editor and writer for the *Southwest Climate Change Network*, an online publication jointly administered by the University of Arizona Institute of the Environment and the Climate Assessment for the Southwest. Trained three journalism interns while writing sections on the climate of the Southwest and climate models.

<http://www.southwestclimatechange.org/climate>

**November 2003-October 2007** Feature writer for the *Southwest Climate Outlook*, a monthly publication distributed electronically by the Climate Assessment for the Southwest to thousands of stakeholders in Arizona and New Mexico. In the summer of 2007, CLIMAS published 24 of these articles as a book, *Global Warming in the Southwest: Projections, Observations and Impacts*.

Posted at: <http://www.u.arizona.edu/~mlenart/gsw/GWSouthwest.pdf> .

**January 2001-April 2004** Editor and primary writer of the twice-yearly Laboratory of Tree-Ring Research newsletter, the *Tree-Ring Times*, co-founded with LTRR Director Thomas Swetnam. For access to issues, see <http://www.u.arizona.edu/~mlenart/trt.php> .

**September 1997-January 2002** Science writer specializing in Global Change research for the *University of Arizona News Services*, Tucson, working with Science Editor Loraine Stiles. For some samples, see <http://www.u.arizona.edu/~mlenart/uan.php> .

**August 1992-June 1996** Held various positions at *The San Juan Star*, an English-language daily newspaper based in San Juan, Puerto Rico. From June 1993-February 1995, my duties included writing a weekly Viewpoint column, *EcoLogic*, covering Puerto Rico's environmental issues. Other positions included copy editor (1992-1995), Viewpoint assistant editor (1993-1995), and environmental reporter (1995-1996).

**Fall 1990** Proofreader, *Dinghushan Biosphere Reserve Ecological Research History and Perspective*, a 40-page, full-color publication describing research achievements and opportunities at the U.N. Man and the Biosphere Reserve in Guangdong Province, China (Science Press, 1993).

**Fall 1989** Copy editor and proofreader, *Acta Cientifica* (Vol. 2, No. 2-3), an English-language journal published by the Association of Science Teachers, Puerto Rico.

**January 1985-July 1987** General reporter and feature writer for *The Suburban Life Citizen*, a twice-weekly newspaper based in La Grange Park, Illinois, covering Chicago's western suburbs.

**August-December 1984** General reporter, *Blue Island Sun-Standard*, a twice-weekly newspaper based in Blue Island, Illinois, covering Chicago's South suburbs.

**January 1981-May 1984** Held various positions at *The Northern Star*, a campus newspaper based at Northern Illinois University in DeKalb. Semester-long positions included newsroom supervisor, editorial writer, feature writer, health beat reporter and city reporter.

## ***Research Experience***

**October 2003-Present** *University of Arizona Institute for the Environment* Postdoctoral research associate through 2007, with position involving contracted work for specific projects since then. Work involves linking stakeholder needs with climate information, undertaking research toward that goal, making public presentations, and writing for various publications. Projects included doing outreach and validation of the *Moisture Balance Drought Index*, documenting the role of collaborative forest management in Arizona's White Mountains, and writing peer-reviewed articles about topics including the drought index and regional climate modeling efforts.

**October 2010-Present** *University of Arizona Cooperative Extension* contracted editor and writer for the Community of Practice website (under development) on Climate, Forests and Woodlands. Expected launch date: March 2011.

**August 2010-Present** *University of Arizona Cooperative Extension* employee contracted for organizational work on the May 16-18, 2011, *National Workshop on Climate & Forests* and May 19, 2011, extension in-service program. Duties also include preparing and evaluating a survey from the workshop designed to assess participants' interests, knowledge and needs regarding climate change adaptation.

**August 1998-August 2003** Primary investigator in research assessing uprooting frequency and soil disturbance in Colorado and Puerto Rico. Field work conducted in 1998 and 1999 with support from the *International Institute of Tropical Forestry*. Data analyzed and reported 2000-2003, with some support from the *U.S. Geological Survey*.

**January-July 2001** Technical assistant on *U.S. Geological Survey* research project involving restoration of Zuni Pueblo wetlands in New Mexico, under the guidance of Waite Osterkamp.

**August 1996-August 1997** Research assistant, *University of Arizona Laboratory of Tree-Ring Research* Free-Air Carbon Dioxide Enrichment (FACE) experiment, Maricopa, Arizona. Involved field and laboratory work on a project assessing the impacts of carbon dioxide fertilization on winter wheat. Primary Investigator: Steven Leavitt.

**June 1990-June 1991** Research assistant, *U.N. Man and the Biosphere Reserve*, Dinghushan, China, involving field and laboratory work on forest carbon cycling project. Paired-plot comparison involved working with local women who would harvest understory plants on the steep slopes of a protected pine plantation. Primary Investigators: Sandra Brown and Guo-hui Kong.

**August 1989-January 1990** Research intern, *International Institute of Tropical Forestry*, Río Piedras, Puerto Rico, assisting in inventory of forest damage from Hurricane Hugo in the protected Luquillo Experimental Forest.

## ***Select Publications***

**Lenart, M., 2010.** *Life in the Hothouse: How a Living Planet Survives Climate Change*. This 256-page peer-reviewed trade book was released in April of 2010 by the University of Arizona Press. <http://www.uapress.arizona.edu/BOOKS/bid2220.htm> . For reviews, see: <http://www.u.arizona.edu/~mlenart/hothouse.php>.

**Lenart, M.T., D.A. Falk, F.N. Scatena, and W.R. Osterkamp, 2010.** Estimating soil turnover rate from tree uprooting during hurricanes in Puerto Rico. *Forest Ecology and Management* 259: 1076-1084.

Garfin, G.M., J.K. Eischeid, **M.T. Lenart**, K.L. Cole, K. Ironside, and N. Cobb, **2010**. Downscaling climate projections in topographically diverse landscapes of the Colorado Plateau in the arid Southwestern United States, pages 21-44 in van Riper III, C., B.F. Wakeling, and T.D. Sisk, *The Colorado Plateau V: Shaping Conservation through Science and Management*, University of Arizona Press, Tucson, pp. 347

**Lenart, M., 2010.** Dust takes a toll: Soil in the West's air disrupts health, snow cover, even rainfall. Published in the July 19 issue of *High Country News*.

**Lenart, Melanie, 2009.** An unseen carbon sink. 1,200-word news feature published in November issue of *Nature Reports Climate Change*.  
<http://www.nature.com/climate/2009/0912/full/climate.2009.125.html>

**Lenart, Melanie, 2009.** Green Roof: Desert Prototype. A Green Roof Case Study of a project on Arizona's Tempe Transportation Center. *Landscape Architecture* (October) 99(10): 28-39.

**Lenart, Melanie, 2009-present.** *Walking on Earth*, regular column published since October 2009 in the monthly *Tucson Green Times*, now called *The New Southwest*. (Search "Lenart" at <http://thenewsouthwest.com/> ).

**Lenart, M.,** with contributions from G. Garfin, B. Colby, T. Swetnam, B.J. Morehouse, S. Doster and H. Hartmann, **2007.** *Global Warming in the Southwest: Projections, Observations and Impacts*. Book compilation includes 24 feature articles by the lead author about regional climate change and its impacts, with section forwards by others. Published by the University of Arizona CLIMAS program and available on-line at: <http://www.climas.arizona.edu/files/climas/pubs/gwsouthwest.pdf>

Ray, A.J., G. Garfin, M. Wilder, M. Vásquez-León, **M. Lenart**, A. Comrie, **2007.** Applications of monsoon research: Opportunities to inform decision making and reduce regional vulnerability, *Journal of Climate* 20: 1608-1627.

Chatterjee, A., and **M. Lenart, 2007.** Water-energy trade-offs between swamp coolers and air conditioners, *Southwest Hydrology* 6(5): 28-29, 32. Available at: [http://www.swhydro.arizona.edu/archive/V6\\_N5/](http://www.swhydro.arizona.edu/archive/V6_N5/)

**Lenart, M., 2007.** Ten things to do: Save money and energy while “saving the world” from global warming, *Restoring Connections*, Newsletter of the Sky Island Alliance, 10(2): 14-15 of the Climate Change issue. Available at: <http://www.skyislandalliance.org/images/newsletters/SkyIslandAllianceNewsletter-August2007-ClimateChange.pdf>

Garfin, G., **M. Lenart, 2007.** Climate change effects on Southwest water resources. *Southwest Hydrology* 6 (1): 16-17, 34. Available at: [http://www.swhydro.arizona.edu/archive/V6\\_N1/](http://www.swhydro.arizona.edu/archive/V6_N1/)

**Lenart, Melanie, 2006.** Islands in a sea of change. *Restoring Connections*, Newsletter of the Sky Island Alliance, 9(3): 8-9. Available at: [http://www.skyislandalliance.org/newsletter/06\\_Autumn-TheBigPicture.pdf](http://www.skyislandalliance.org/newsletter/06_Autumn-TheBigPicture.pdf)

**Lenart, M., 2006.** Collaborative stewardship to prevent wildfires. *Environment* 48(7): 8-21.

**Lenart, M., C. Jones, B. Kimball, 2006.** Rising Carbon Dioxide Levels and Forest Management. Arizona Cooperative Extension fact sheet, *Climate Change and Variability in the Southwest Ecosystem Series*, AZ1395. Available at: <http://cals.arizona.edu/pubs/natresources/az1395.pdf>

DeGomez, T., **M. Lenart, 2006.** Management of Forests and Woodlands. Arizona Cooperative Extension fact sheet, *Climate Change and Variability in the Southwest Ecosystem Series*, AZ1424. Available at: <http://cals.arizona.edu/pubs/natresources/az1424.pdf>

Osterkamp, W.R., T.J. Toy and **M.T. Lenart, 2006.** Development of partial rock veneers by root throw in a subalpine setting. *Earth Surface Processes and Landforms* 31(1): 1-14.

Jacobs, K., G. Garfin, **M. Lenart, 2005.** More Than Just Talk: Connecting Science and Decisionmaking. *Environment* 47(9): 6-21.

Brown, T., G. Garfin, **M. Lenart** and H. Hockenberry, **2005.** Significant Fire Potential Outlook, 2005. Proceedings EastFIRE Conference, George Mason University, Fairfax, Va., May 11-13. 4 pp.

Garfin, G.M., **M. Lenart**, T. Brown, R. Ochoa, and H. Hockenberry, **2005.** Fire season could mean double trouble for West. *Wildfire* 14(3): 6-7.

**Lenart, M., T. Brown, H. Hockenberry, and G. Garfin, 2005.** National Seasonal Assessment Workshop: Western States & Alaska. Forecast of significant fire potential in western states for the upcoming season. Based on March 28-April 1, 2005, meeting in Boulder, Colorado, of fire managers, fuel specialists and climate forecast experts. 29 pp. Available at: [http://www.ispe.arizona.edu/climas/conferences/NSAW/publications/NSAWwestproceedings\\_05.pdf](http://www.ispe.arizona.edu/climas/conferences/NSAW/publications/NSAWwestproceedings_05.pdf)

**Lenart, M., T. Brown, H. Hockenberry, and G. Garfin, 2005.** National Seasonal Assessment Workshop: Eastern & Southern States. Forecast of significant fire potential in eastern states for the upcoming season. Based on January 19-21, 2005, meeting in Shepherdstown, West Virginia, of fire managers, fuel specialists and climate forecast experts. 31 pp. Available at: [http://www.ispe.arizona.edu/climas/conferences/NSAW/publications/NSAWeastproceedings\\_05.pdf](http://www.ispe.arizona.edu/climas/conferences/NSAW/publications/NSAWeastproceedings_05.pdf)

Morrill, J. and **M. Lenart**, with contributions from the CLIMAS team, **2005**. The White Mountains: CLIMAS Team Integrated Assessment Project, a white paper distributed internally to Climate Assessment for the Southwest researchers. 92 pp.

**Lenart, Melanie**, Gregg Garfin and Jonathan Overpeck, **2004**. The heat is on, Arizona-Sonora Desert Museum magazine *sonorensis* 24(1): 20-28.

**Lenart, Melanie T., 2003**. A comparative study of soil disturbance from uprooted trees, and pit and mound decay, in Puerto Rico and Colorado. Ph.D. Dissertation, School of Natural Resources, University of Arizona, 175 pp.

**Lenart, Melanie T., 2000**. Soil disturbance by the uprooting of trees during a windstorm, Routt National Forest, Colorado. Abstract, *Proceedings of Geological Society of America*, November meeting in Reno, Nevada.

**Lenart, Melanie T., 2000**. Soil disturbance by uprooted trees following Hurricane Georges, pages 28-30, U.S. Department of Agriculture Forest Service, *International Institute of Tropical Forestry Annual Letter* 1998-99, Rio Piedras, Puerto Rico.

Mo., J., S. Brown, **M. Lenart** and G. Kong. **1995**. Nutrient Dynamics of a Human-Impacted Pine Forest in a MAB Reserve of Subtropical China. *Biotropica* 27(3): 290-304.

Brown, S., **M. Lenart**, J. Mo and G. Kong. **1995**. Structure and Organic Matter Dynamics of a Human-Impacted Pine Forest in a MAB Reserve of Subtropical China. *Biotropica* 27(3): 276-289.

**Lenart, M.T.**, 1992. Organic matter dynamics in a human-impacted pine forest in subtropical China. Master's Thesis, Department of Forestry, University of Illinois, Urbana-Champaign.

## ***Select Presentations***

**Science into Stories as part of Conservation for the 21<sup>st</sup> Century.** Invited 45-minute web presentation on November 16, 2010, for Indiana University.

**Extreme Variability: Southwest Climate.** Invited 1-hour presentation on April 3, 2010, for the series Biosphere 2: Let's Talk Science.

**Life in the Hothouse: How a Living Planet Survives Climate Change.** Invited talks given since the book's 2010 release to a variety of venues, including: Solar Rock Festival (Tucson), March 27; Antigone Books (Tucson), April 16; Tucson Earth Day, April 17; Earth Day, University of Arizona campus, April 19; Western National Parks Association Store, May 28; Unitarian Universalist Church, October 24; Atalanta Bookstore (Bisbee), Dec. 11; Tucson Festival of Books, March 12, 2011. Broadcast interviews to discuss *Life in the Hothouse* included two dozen radio shows from New York to California, as well as television shows including an April 20 interview with Bill Buckmaster on *Arizona Illustrated*, a Dec. 10 interview on *Focus on Bisbee*, and a March 12 presentation at the Tucson Festival of Books for C-SPAN BOOK-TV.

**Forest Soils in Times of Change.** Invited 45-minute presentation on March 3, 2010, for the Department of Soil, Water and Environmental Science.

**Science into Stories: Writing for the Public.** Invited 45-minute presentation on February 10, 2010, for the School of Natural Resources and the Environment.

**Climate Change Basics: What's Happening, What's Expected, What's Known.** Invited 45-minute presentation on April 16, 2009, for the *Arizona Governor's Forest Health Council*.

**The Road Ahead: Global Warming in Arizona.** Invited 30-minute presentation for the April 11, 2009, *Arizona Conference on Roads and Streets*.

**Anticipated Local Environmental Changes.** Invited 20-minute presentation for the April 22, 2009, *Tucson Spotlight Conversations on Climate Action*. The event was one of 10 held throughout the nation and sponsored by the international ICLEI Local Governments for Sustainability.

**Climate and Carbon.** Invited 75-minute workshop session with Ron Proctor on October 27, 2007, to educators at the *Arizona Association of Environmental Education 2007* conference.

**Global Warming in the Southwest.** Invited 20-minute presentation on for *Focus the Nation: Global Sustainability Dialogue Day*. Given October 5, 2007, to a group of educators in the Phoenix area who are organizing teachings activities for the January 31, 2008, Focus the Nation event.

**Global Warming: An Update Focusing on the Southwest.** Invited 30-minute presentation given June 1, 2007, in Tucson to the *Environmental Planning Advisory Committee of the Pima Association of Governments*, a group of public officials in the county.

**How Natural Systems Help Moderate Global Warming: A View from the Perspective of Gaia theory.** Solicited 45-minute presentation given May 11, 2007, to the *Environmental Breakfast Club*, a monthly gathering of University of Arizona professionals focused on the environment.

**Global Warming: Causes, Consequences and Preventative Actions.** Invited 30-minute presentation given May 1, 2007, to the *United Nations Association of Southern Arizona*.

**A Gaian Response: Hurricanes intensify with high temperatures.** 20-minute presentation given in Spanish and English on April 20, 2007, to students and other participants at the *Conferencia de Gaia y Cambio Climático* (Gaia and Climate Change) held at the University of Puerto Rico.

**Cleaning Up Our Air Pollution: Yesterday and Today.** Invited 20-minute talk given April 14, 2007, at the *Tucson Solar Rock "Step It Up" Rally* to draw attention to global warming and sustainable alternatives to fossil fuels. Talks and music were powered with solar panels.



**Using Recent Observations to Consider Global Warming Impacts on Riparian Areas.** Invited 20-minute presentation given April 12, 2007, to educators and land managers attending the *Climate and Riparian Areas Workshop*.

**Global Warming: The Science Behind the News.** Invited 75-minute presentation and interaction on April 2, 2007, with Jennifer Katcher's biology class at *Pima Community College*.

**Global Warming: What Does It Mean for the Pinalenos?** Invited 25-minute presentation given February 27, 2007, at the monthly meeting of the *Pinalenos Partnership*, a group of tribal and federal land managers focused on the forest and desert ecosystems near San Carlos, Arizona.

**Global Warming: Causes, Consequences and Actions.** Invited 45-minute presentation given February 22, 2007, at the monthly meeting of *Heritage Highlands Democrats*, Marana, Arizona. The group sought information on how climate change is affecting the Southwest and what they could do to reduce its impact.

**Global Warming and Its Impacts on Water: Highlights from the IPCC Summary.** Invited 15-minute presentation given February 15, 2007, at a meeting of *Sustainable Tucson*, a newly formed coalition of more than 200 local groups. Featured the findings released February 2 by the Intergovernmental Panel on Climate Change.

**Global Warming Community Event.** Invited to moderate three discussion sessions at the Sea Studios/Yale University event at the *Arizona-Sonora Desert Museum*, Tucson, on February 10, 2007. Moderated discussion among the 25 participants per session following a 30-minute showing of National Geographic's *Strange Days on Planet Earth: The One Degree Factor*.

**An Inconvenient Truth, Movie and Panel Discussion.** Invited panelist for a scientific discussion that followed the February 1, 2007, showing of Al Gore's documentary on climate change. The Tucson event was organized by the *University of Arizona's Institute for the Study of Planet Earth* for students, faculty and interested community members.

**Science Communication 101: Writing About Climate Change for the Public.** Invited 45-minute presentation given February 1, 2007, with co-presenter Shoshana Mayden, former editor of the Institute for the Study of Planet Earth. Talk was given to geography students taking Andrew Comrie and Connie Woodhouse's climate course, which involves writing blogs for a website.

**Climate Projections: Short-term and long-term.** Invited 30-minute presentation given January 24, 2007, to the *Malpai Borderlands Group*, a coalition of local ranchers spanning the Arizona-New Mexico border near Mexico.

**Global Warming vs. Climate Variability: Two Realities, One No-Regrets Strategy.** Invited one-hour presentation given January 17, 2007, at the *Foreign Policy Association's* Great Decisions annual meeting in Tucson. About 250 members of the Arizona chapter attended the talk and subsequent question session to launch their local discussions on global climate change.

**Global Warming in the Southwest: Potential Impacts on Forests and Roads.** Invited 45-minute presentation given November 15, 2006, at the annual ADOT/USFS partnership meeting in

Flagstaff, Arizona. The Arizona Department of Transportation, U.S. Forest Service, Bureau of Land Management and related groups partner together on issues relating to public roads.

**Global Warming in the Southwest: The Next 25 Years.** Invited 30-minute presentation given November 3, 2006, at a one-day symposium of the *Coronado Planning Partnership*, Coronado National Forest, Tucson. The partnership, working in conjunction with the U.S. Forest Service, requested input that could help guide the upcoming a Forest Plan.

**Climate Variability and Change in the Southwest.** 20-minute presentation given September 21, 2006, to the *Natural Areas Conferences: Stewards of the Old and New West*, Flagstaff, Arizona. Provided an update of the state's drought status and regional climate change projections and observations.

**Beyond the Headlines: Prospects for Humanity as the Earth Heats Up.** Invited panelist as part of a three-hour event on September 17, 2006, for the *Center for Inquiry Community of Southern Arizona*, Tucson. The discussion was videotaped for broadcast on Tucson Access cable television.

**Climate and Natural Disasters.** Invited 20-minute presentation given August 8, 2006, to outreach professionals at the annual meeting of the *College of Agriculture and Life Sciences*, Tucson.

**Global Climate Change in the Southwest.** Invited one-hour talk given May 14, 2006, to a discussion group with the *Trinity Presbyterian Church*, Tucson.

**The Latest Science on Global Warming.** Invited one-hour presentation given October 8, 2005, to a group of community and environmental activists and religious workers in Flagstaff, Arizona. The talk was part of a weekend workshop organized by *The Grand Canyon Trust* and *The Greenhouse Network* to train people to give community talks about climate change.

**Climate Exercise Using Examples from the Southwest.** Invited to lead two interactive one-hour teaching sessions on July 13, 2005, with participants in the San Carlos Apache student practicum for prospective natural resource students, San Carlos, Arizona. Invited to repeat the exercise for the June 2006 practicum.

**Global Warming: Science, Impacts and Policy.** Invited one-hour talk given June 12, 2005, to the *Unitarian Church* congregation in Green Valley, Arizona.

**Climate Research and Products Relevant to Mountainous Regions: Input from Stakeholders.** 20-minute presentation given March 3, 2005, to a group of climatologists, ecologists and other scientists attending the 2005 *Mountain Climate* (MTNCLIM) meeting in Pray, Montana.

**Writing about Your Research for the General Public.** Invited 90-minute presentation given February 16, 2005, as a guest lecturer in Jennifer Hoit's course, *Survival Skills for Scientists*. Returned most springs since then to talk and interact with a new group of students.

**Conveying Complex Climate Information to Resource Managers and Other Stakeholders.** 20-minute presentation given August 3, 2004, at an organized oral symposium of the *Ecological Society of America's* conference in Portland, Oregon.

**Fire and Climate: Will History Repeat Itself?** Invited one-hour presentation given May 11, 2004, at the *White Mountain Apache Tribal Council's* forestry symposium at Hon-dah Resort, Arizona. Addressed whether Arizona's 468,000-acre Rodeo-Chediski fire could be perceived as "normal" and whether more wildfires of this scale could be expected as climate warms.

**Un Centro de Análisis Climático al Otro Lado de la Frontera: CLIMAS.** Invited 30-minute presentation ("A Climate Service on the Other Side of the Border: CLIMAS") given in Spanish April 26, 2004, to scientists working in and around Hermosillo, Mexico. The talk was part of a workshop to discuss starting a regional climate center in the Sonoran region of Mexico.

**An Overview of the Climate Assessment for the Southwest.** Invited one-hour presentation given April 13, 2004, to the Bureau of Indian Affairs (BIA) natural resources workers, San Carlos, Arizona. Described activities and products related to drought, monsoon prediction, the fire outlook, precipitation forecasts and climate patterns including the monsoon and El Niño.

## ***Workshop Organization***

**May 16-19, 2011.** Worked with Chris Jones and other cooperative extension agents to organize the **National Workshop on Climate & Forests: Planning Tools and Perspectives on Adaptation and Mitigation Options**, a two-day workshop held at Northern Arizona University in Flagstaff, followed by a one-day in-service program for extension agents.

**October 25-27, 2007.** Helped organize the Arizona Association of Environmental Education's 2007 conference, **Educating for a Sustainable Future**. The conference featured keynote talks and workshop sessions on Climate Change, arranged by me, along with sessions on Permaculture, Water Conservation and Food Security arranged by other members of the university and wider community.

**Spring, 2005-2007.** Helped organize a series of workshops for southwestern land managers on ecosystem impacts of climate variability and change with others from CLIMAS and the University of Arizona Cooperative Extension Service. These workshops included:

**Climate Variability & Ecosystem Impacts in Southwestern Forests and Woodlands**  
(February 7-9, 2005, Sedona, Arizona)

**Beyond Boxes and Arrows: Climate and Rangelands Workshop**  
(January 25-25, 2006, San Carlos, Arizona)

**Connecting the Dots: Climate and Riparian Areas Workshop**  
(April 11-13, 2007, Casa Grande, Arizona)

**2003-05** Participated with others from CLIMAS and the UA water consortium, SAHRA, in organizing a series of press briefings to share climate information with reporters. These included:

**Impacts of Warming on Urban Water Supply and Demand**  
(December 7, 2004, Phoenix, Arizona)

### **The Seasonal Forecast of Potential Fire Hazard**

(April 2, 2004, Phoenix, Arizona; in cooperation with the Southwest Coordination Center and the Desert Research Institute).

**Climate Fluctuation and Climate Change: A Summary of Current Research**, a press briefing that followed a special screening of the movie *The Day After Tomorrow*. (May 25, 2004, in Tucson, Arizona)

### **An Update on the Southwestern Drought**

(Nov. 12, 2003, Tucson, Arizona)

**Winter and spring, 2005.** Helped organize two **National Seasonal Assessment Workshops** for fire managers and fuel specialists with others from CLIMAS, the Desert Research Institute and the National Predictive Services Group. Workshops involved using climate forecasts to prepare outlooks for significant fire potential in the coming season. A January 18-21 workshop took place in Shepherdstown, West Virginia, and a March 28-April 1 workshop was held in Boulder, Colorado.

**April 2004.** Helped organize an **April 26-27, 2004** workshop in Hermosillo, Mexico, with Henry Diaz of the National Oceanic and Atmospheric Administration. The workshop, **Discusión sobre un Centro de Análisis Climático Regional**, involved scientists and stakeholders interested in setting up a regional climate center at the *Universidad de Sonora* in Hermosillo.

## ***Awards and Scholarships***

**2004** Outstanding Dissertation Award, University of Arizona School of Natural Resources

**1999** Fort McDowell Wassaja Memorial Fund Scholarship. Terms of scholarship included mentoring students of an Indian charter school, Ha:Sañ High School, Tucson.

**1985** Northern Illinois Newspaper Association award for feature writing.

**1982-1983** Outstanding Northern Illinois University Journalism Student.

**1982** Hearst Award for Investigative Reporting.

## ***Software Experience***

Microsoft Word and other word-processing programs

Microsoft Excel

Microsoft PowerPoint

Adobe InDesign

Adobe Photoshop

Adobe Illustrator

JMP IN statistical software, designed by the developers of SAS

## ***References available upon request***