

Curriculum Vitae

THOMAS WILLIAM SWETNAM

March 2012

BIRTHDATE & PLACE: December 9, 1955, Ruidoso, New Mexico, U.S.A

EDUCATION

- University of Arizona, M. S., 1983, Ph.D. 1987, Watershed Management, Geosciences
- University of New Mexico, B. S., 1977, General Biology, Chemistry

EMPLOYMENT

- 2000 to Present: Director & Professor of Dendrochronology, Laboratory of Tree-Ring Research; joint academic appointments in School of Natural Resources & Environment, Ecology & Evolutionary Biology, and School of Geography & Development; faculty affiliate in Institute of the Environment
- 1994-1999: Associate Professor of Dendrochronology, Laboratory of Tree-Ring Research
- 1988-1994: Assistant Professor of Dendrochronology, Laboratory of Tree Ring Research
- 1987-1988: Research Associate, Laboratory of Tree-Ring Research
- 1980-1987: Graduate Assistant in Research, subsequently Graduate Associate in Research, Laboratory of Tree-Ring Research, University of Arizona
- 1978-1980: Forestry Technician, U. S. Forest Service, Gila Wilderness, New Mexico
- 1976-1977: Park Technician, National Park Service, Grand Canyon National Park, Arizona

AWARDS & HONORS

- E.J. Taaffe Distinguished Lecturer, Dept. of Geography, Ohio State University, 2010
- Henry Cowles Award, The Association of American Geographers, Biogeography Specialty Group, for outstanding paper with James Speer and others, 2002
- William Skinner Cooper Award, Ecological Society of America, for outstanding paper in geobotany, with Julio Betancourt, 2001
- E.H. Weaver Lecturer, School of Forestry and Wildlife Science, Auburn University, 2000
- Walter Orr Roberts Public Lecturer, Aspen Global Change Institute, 1999
- Visiting Fellow at Aldo Leopold Wilderness Research Institute, Missoula, Montana 1994
- A. E. Douglass Scholarship Award University of Arizona, 1983

APPOINTMENTS & ADVISORY BOARDS (selected)

- Member, Advisory Group, FireScape, a collaboration of Coronado National Forest, Saguaro National Park, The Nature Conservancy and University of Arizona, 2007-present

- Member, Governor’s Climate Change Advisory Group (appointed by Arizona Governor Janet Napolitano), 2005-2006
- Member, Board of Advisors, NSF-EPSCOR Ecology Program, Wyoming, 2005-2007
- Member & Chair, Board of Advisors, NOAA Paleoclimatology Program, 2004-2005
- Member of Executive Committee, Consortium for Integrated Climate Research in Western Mountains (CIRMOUNT), 2003-2010
- Member, Governor’s Forest Health Advisory Council (appointed by Arizona Governor Janet Napolitano), 2003-2006
- Member, Science Advisory Board, Malpais Borderlands Group, New Mex., 2003-2006
- Member, Board of Advisors, Institute for Natural Resource Management, NSF-EPSCOR Program, New Mexico, 2003-2005
- Member (and founder), Board of Advisors, International Multiproxy Paleofire Database, National Climate Data Center, NOAA, 2002-present
- Member, Board of Trustees, Valles Caldera National Preserve (appointed by U.S. President William J. Clinton), 2000-2004

CONGRESSIONAL TESTIMONY

- Field hearing before U.S. House of Representatives Committee on Natural Resources, Subcommittee on National Parks, Forests and Public Lands, April 7, 2009 at Joshua Tree National Park, California
- Hearing before the U.S. Senate Energy & Natural Resources Committee: To consider scientific assessments of the impacts of global climate change on wildfire activity in the United States. Written testimony co-authored with A.L. Westerling, September 24, 2007 in Washington DC
- Field Hearing before the U.S. House of Representatives, Natural Resources Subcommittee on Forest Health on Preventing Wildfires through Proper Management of the National Forests, August 14, 2000 in Albuquerque New Mexico
- Hearing before the U.S. House of Representatives Natural Resources Subcommittee on Forest Health, Written testimony co-authored with P. Morgan and L. Neuenschwander, June 7th, 2000 in Washington DC

EDITORIAL

- Associate Editor, *Fire Ecology*, 2009-present
- Associate Editor, *Dendrochronologia*, 2005-present
- Editor, *Tree-Ring Research* (formerly *Tree-Ring Bulletin*) 2000-2001
- Associate Editor, *Canadian Journal of Forest Research*, 1998
- Editorial Board, *Ecological Applications*, 1998-1999
- Co-Editor with J. Dean and D. Meko on special issue of *Radiocarbon*, 1996
- Associate Editor, *EcoScience*, 1994-1998
- Associate Editor, *International Journal of Wildland Fire*, 1993-present

KEYNOTE LECTURES

(selected list, since 1994)

- 4th Landscape Ecology Conference, Tucson, AZ, March 24, 1994
- 6th International Dendrochronology Conference, Quebec City, Canada, August 27, 2002
- Fire & Society Workshop, University of Arizona, Tucson, AZ January 11, 2003
- Ecological Integration Symposium, Texas A&M Univ., College Station TX, Feb. 22, 2003
- Climate Change Impacts on Forest Ecosystems Symposium, Sedona, AZ, February 10, 2004
- 3rd International Fire Ecology & Management Conference, San Diego, CA, Nov. 13-17, 2006
- Western International Forest Insect & Disease Work Conference, Sedona, AZ, Oct. 17, 2007
- Ameridendro Conference, Vancouver, British Columbia, Canada, June 26, 2008
- Natural History of the Gila Conf., NM Native Plants Society, Silver City, NM Oct 16, 2008
- Annual All Scientist Meeting, U.S. Forest Service, Rocky Mountain Research Station, Fort Collins, CO, March 24, 2010
- National Weather Association Annual Meeting, Tucson, AZ, October 5, 2010

INVITED PLENARY TALKS

(selected list, since 1994)

- International Tree-Ring Conference, Tucson, AZ, May 17, 1994
- Soil Conservation Society Conference, Albuquerque, NM, December 2, 1994
- Symposium on Effects of Fire in Madrean Province Ecosystems, Tucson, AZ, Mar 11, 1996
- Land Use History of North America, US Geological Survey, Denver, CO, May 2, 1996
- Inter-American Institute Workshop on Fire and Global Change in the Americas, Chile and Argentina, Valdivia, Chile, December 30-January 7, 1997
- George Wright Society Annual Meeting, Albuquerque, NM March 21, 1997
- Fire in California Ecosystems Symposium, San Diego, CA, Nov. 17, 1997
- Pole-to-Equator-to-Pole I meeting, Inter-American Institute and NSF sponsored, Merida, Venezuela, March 15-21, 1998
- American Quaternary Assoc. Biennial meeting, Puerto Vallarta, Mexico, Sept. 3-6, 1998
- Wilderness Science Conference, U.S. Forest Service, Missoula, MT, May 24-25, 1999
- Aspen Global Change Workshop on Ecological and Agricultural Impacts of Climate Change, Aspen, CO, August 13-21, 1999
- National Research Council Meeting, Abrupt Climate Change Impacts, Washington, DC, March 21-23, 2000
- Eurodendro Meeting in Slovenia, June 6-9, 2001
- Climate Change at High Elevation Sites: Emerging Impacts, Highest II, Academies of Sciences/NCCR-Climate Workshop, 25–28 June 2001, Davos, Switzerland, June 25-28, 2001
- Mountain Climate/CIRMOUNT meeting, Lake Tahoe, NV, May 24-28, 2003
- Forest Health & Biodiversity Symposium, National Council on Science for Sustainable Forestry, Denver, CO, June 4-5, 2003
- Xeriscape Conference, “Water, Our Future, Our Legacy”, Albuquerque, NM, Oct. 17, 2003
- Madrean Archipelago Conference, U.S. Forest Service, Tucson, AZ, May 12, 2004
- National US Geological Survey Fire Sciences Symposium, Tucson, AZ, December 5-9, 2005
- National Council on Science for Sustainable Forestry, Denver, CO, April 26, 2006

- Academic Program Chair address to 7th International Conference on Dendrochronology, Beijing, China, June 11-17 2006
- American Quaternary Association biannual meeting, Bozeman, MT, August 17, 2006
- Association for Fire Ecology Conference, Tucson, AZ, January 30, 31, 2008
- National Press Club, Washington, DC, on climate change, sponsored by Potomac Institute for Policy Studies, March 5, 2008
- Yellowstone Fire 2008 conference, Jackson Hole, WY, September 25, 2008
- California Association for Fire Ecology conference, San Diego, CA, December 2-4, 2008
- Society for Range Management So. Arizona Chapter, Sierra Vista, AZ January 13, 2009
- National Meeting of National Park Service fire managers, San Antonio, TX, Jan. 28, 2009
- 4th International Fire Ecology & Management Congress, Fire as a Global Process, Savanna, GA, November 30-December 4, 2009
- Collaborative Adaptive Management Network Symposium, Tucson, AZ, March 8, 2010
- Forests At Risk: Climate Change & the Future of the American West, Aspen Colorado, February 18, 2011

INVITED LECTURES/SEMINARS AT UNIVERSITIES AND INSTITUTES

(other than University of Arizona, since 1989):

- Instituto de Ecología, Univ. Nacional Autónoma de México, Mexico City, May 24, 1989
- University of Washington, Forest Resources, October 25, 1989
- University of California at Davis, Ecological Seminar Series, January 17, 1991
- Sukachev Institute Forest and Wood, Siberian Branch of Russian Academy of Sciences, Krasnoyarsk, Siberia, July 22, 1991
- University of São Paulo, Agric. School Luiz de Queiroz/Piracicaba, Brazil, May 19-25, 1992
- Colorado State University, Fort Collins, CO, October 12, 1992
- Utah State University, Logan, November 10, 1993
- Universidad Austral de Chile, Valdivia, Chile, January 4, 1994
- University of Minnesota, Global Change Seminar Series, Minneapolis-St Paul, Apr. 13, 1994
- University of California at Berkeley, Dept. of Environmental Science, May 28, 1994
- University of California at Davis, Dept. of Ecology, (two talks) Oct 31, Nov. 1, 1996
- Montana State University, Geography, Bozeman, MT, Sept. 30, 1997
- Swedish University of Agricultural Sciences, Umeå, Sweden, February 27, 1998
- Auburn University, School of Forestry and Wildlife Science, Auburn, AL, January 20, 2000
- University of California at Davis, Dept. of Ecology, April 19, 2000
- Arizona State University, Law School, Tempe, November 13, 2000
- Stanford University, Dept. of Bio. Sciences, Palo Alto, CA, February 9, 2001
- Los Alamos National Laboratory, University of California, Los Alamos, NM, April 19, 2001
- Columbia University, Lamont-Doherty Earth Observatory, Palisades, NY, October 25, 2002
- University of Minnesota, Dept. of Ecology, St. Paul-Minneapolis, Geography, April 15, 2005
- Oklahoma State University, Dept. of Botany, Stillwater, April 11, 2006
- Colorado State University, Dept. of Forest, Rangeland, Fort Collins, CO, April 28, 2006
- Norwegian University of Life Sciences, Oslo, September 13, 2006
- Northern Arizona university, School of Forestry, Flagstaff, AZ, October 19, 2007

- University of Utah, Dept. of Geography, Salt Lake City, March 1, 2007
- University of Quebec, Forest Resources, Montreal, Canada, November 7, 2007
- University of California at Merced, Environmental Systems, February 20, 2008
- University of California at Davis, Dept. of Ecology, February 21, 2008
- Ohio State University, Dept. of Geography, Columbus, February 28, 2010

TEACHING

Courses taught at University of Arizona:

Year/Semester	Course Name	Course Number¹
1989 Fall	Introduction to Dendrochronology	GEOS 464a/564a
1990 Spring	Dendrochronology Workshop	GEOS 464b/564b
1990 Fall	Introduction to Dendrochronology	GEOS 464a/564a
1991 Spring	no courses taught	
1991 Fall	Introduction to Dendrochronology	GEOS 464a/564a
1992 Spring	Dendrochronology Workshop Dendrochronology Seminar	GEOS 464b/564b GEOS 596v
1992 Fall	Introduction to Dendrochronology Dendrochronology Seminar	GEOS 464a/564a GEOS 596v
1993 Spring	Water, Chemistry & Global Change	HWR 107b
1993 Fall	Introduction to Dendrochronology	GEOS 464/564
1994 Spring	Dendrochronology Workshop Dendrochronology (Journal Club)	GEOS 497C/597C GEOS 596V
1994 Fall	Introduction to Dendrochronology	GEOS 464/564
1995 Spring	Dendroecology	GEOS 595F
1995 Fall	Sabbatical	
1996 Spring	Sabbatical	
1996 Fall	Introduction to Dendrochronology	GEOS 464/564
1997 Spring	Dendrochronology Workshop	GEOS 497C/597C
1997 Fall	Introduction to Dendrochronology Fire Climatology Colloquium	GEOS 464/564 GEOS 595E
1998 Spring	Dendroecology Colloquium	GEOS 595E
1998 Fall	Introduction to Dendrochronology Fire Climatology Colloquium	GEOS 464/564 GEOS 595E
1999 Spring	no courses taught	
1999 Fall	Environmental History of the Southwest	GEOS 220 (Gen Ed Tier2)
2000 Spring	Dendroecology Colloquium	GEOS 595E
2000 Fall	Environmental History of the Southwest	GEOS 220 (Gen Ed Tier2)
2001 Spring	no courses taught	
2001 Fall	no courses taught	
2002 Spring	Fire Climatology Colloquium	GEOS 597E
2002 Fall	no courses taught	

Year/Semester	Course Name	Course Number¹
2003 Spring	Dendro-Entomology	GEOS 595E
2003 Fall	no courses taught	
2004 Spring	Fire Climatology Colloquium	GEOS 595E
2004 Fall	Sabbatical	
2005 Spring	Sabbatical	
2005 Summer	Dendroecology	GEOS 595J
2005 Fall	Dendrochronology (Journal Club)	GEOS 595E
2006 Spring	Dendrochronology (Journal Club)	GEOS 595E
2006 Summer	Dendroecology	GEOS 595J
2006 Fall	Dendrochronology (Journal Club)	GEOS 595E
2007 Spring	Dendrochronology (Journal Club)	GEOS 595E
2007 Summer	Dendroecology	GEOS 595J
2007 Fall	Introduction to Dendrochronology	GEOS 464/564
2008 Spring	Dendrochronology (Journal Club)	GEOS 595E
2008 Fall	Introduction to Dendrochronology	GEOS 439A/539A
2009 Spring	Dendrochronology (Journal Club)	GEOS 595E
2009 Fall	Introduction to Dendrochronology	GEOS 439A/439A
2010 Spring	Sustainability & Environmental Law	LAW 603J
2010 Fall	Introduction to Dendrochronology	GEOS 439A/439A
2011 Summer	Dendroecology	GEOS 595J

¹ Most GEOS courses listed here are also cross-listed in WSM, and ANTH.

Lectures in other University of Arizona Courses (one per year unless noted):

1988-1991 WSM 462 Watershed Management
 1989 EEB 500A Advanced Population Biology
 1990-1994 WSM Silviculture
 1999 EEB 406R Conservation Biology
 2000-2006 GEOS 464/646 Introduction to Dendrochronology
 2003 GEOG Fire-Climate-Society colloquium
 2003, 2006-2007 EEB 206 Environmental Biology
 2003 GEOS 595 Dendroclimatology summer pre-session course
 2003 GEOG 408/508 Arizona & the Southwest
 2004 GEOG 696C, Drought Seminar
 2004 GEOS 478/578 Global Change
 2004-2010 Traditions 104 Sonora
 2007-2010 GEOS NATS 101 Geological Hazards, 2 lectures each year
 2009 LAW 603J Sustainability & Environmental Law
 2010 Kirsten Engel's Environmental Law class, on fire and policy, March 30
 2010 Conservation Biology, Oct 26
 2010 GC572 Global Biogeochemical Cycles, Nov 2
 2011 LAW 603J Sustainability & Environmental Law, March 23
 2011 Conservation Biology, Oct 13

Course Lectures for other Institutions:

- 1999-2002 National Science Foundation Chautauqua Course on Using Tree-Rings in Environmental Education, for Science teachers in small colleges and universities, at Tree-Ring Lab, approximately 15 students/years, 3 days in May, co-taught with Paul Sheppard
- 2000-2006 Lectures (3 hrs annually) at Continuing Education in Ecosystem Management course at Northern Arizona University, approx. 30 students/year, in February
- 2002 Lecture to University of New Mexico, Los Alamos, Valles Caldera Landscape Lecture series, Los Alamos, NM, approx. 150 people, April 23
- 2002 Lecture at Forest Ecology Field Course, Cortina D’Ampezzo, Italy, September 3
- 2000 to 2010 Lecture to S-580 Advanced Fire Management Applications course, National Advanced Fire & Resource Institute (NAFRI, formerly known as NARTC), Tucson, AZ, 100 to 120 students/year, fire managers, USDA Forest Supervisors, USDI National Park Superintendents.
- 2000 to 2010, 2012 Lecture to M-580 Fire in Ecosystem Management course, NARTC/NAFRI Tucson, AZ, 100 to 120 students /year, fire managers, USDA Forest Supervisors, USDI National Park Superintendents.
- 2010 “Webinar” to fire managers across the US, hosted by Joint Fire Sciences Program (USDA/USGS), April 22

ADVISING & MENTORING

Ph.D. Dissertation and Master Thesis Supervision at University of Arizona:

Name	Degree and Year	Thesis/Dissertation Title	Current Position
Peter M. Brown	MS, Watershed Management, 1991	Dendrochronology and fire history in a stand of Northern California Coast redwood	Dendrochronologist, Rocky Mountain Tree-Ring Lab; Adjunct Professor, Colorado State University
Linda S. Mutch	MS, Watershed Management, 1994	Growth responses of giant sequoia to fire and climate in Sequoia and Kings Canyon National Parks, California	Inventory & Monitoring Coordinator, Sequoia & Kings Canyon National Parks, NPS, CA
Dana Perkins	MS, Renewable Natural Resources, 1995	A dendroecological assessment of whitebark pine in the Sawtooth Salmon River region, Idaho	Ecologist, Challis Field Office, Bureau of Land Management, ID
Henri D. Grissino-Mayer	Phd, Watershed Management, 1995	Tree-ring reconstructions of climate and fire history at El Malpais National Monument, New Mexico	Professor, Department of Geography, University of Tennessee
Kiyomi Morino	MS, Watershed Management, 1996	Reconstruction and interpretation of historical patterns of fire occurrence in the Organ Mountains, New	Post Doctoral Scientist, University of Arizona

Name	Degree and Year	Thesis/Dissertation Title	Current Position
		Mexico	
Rena Ann Abolt (Stricker)	MS, Renewable Natural Resources, 1997	Surface and crown fire histories of upper elevation forests via fire scar and stand age structure analyses	President, Watershed Sustainability, LLC, Atlanta, GA
Margot Wilkinson Kaye	MS, Watershed Management, 1997	Reconstruction of historical fire regimes along an elevation and vegetation gradient in the Sacramento Mountains, New Mexico	Assistant Professor, School of Forest Resources, Penn State University
James H. Speer	MS, Geosciences, 1997	Dendrochronological record of pandora moth (<i>Coloradia pandora</i> , blake) outbreaks in central Oregon	Associate Professor, Geography and Geology, Indiana State University
Shelly Danzer	MS, Watershed Management, 1998	Fire history and stand structure in the Huachuca Mountains of Southeastern Arizona	Land manager, Integrated Training Area, US National Guard, Phoenix, AZ
Mark Kaib	MS, Watershed Management, 1998; MS, Arid Lands Resource Sciences, 2004	Fire history in riparian canyon pine-oak forests and the intervening desert grasslands of the southwest borderlands: a dendroecological, historical, and cultural inquiry	Deputy Regional Fire Management Coordinator, U.S. Fish & Wildlife Service, NM
Daniel E. Ryerson	MS, Watershed Management, 1998	Tree-ring reconstruction of western spruce budworm outbreaks in the Rio Grande National Forest, Colorado	Forest Health and GIS Specialist, Southwest Region Office, U.S. Forest Service, , NM
Matthew G. Rollins	PhD, Watershed Management, 2000	Twentieth century fire patterns in the Gila/Aldo Leopold Wilderness areas, New Mexico, and the Selway-Bitterroot Wilderness area, Idaho/Montana	Wildland Fire Science Team Leader, Center for Earth Resources Observation and Science (EROS), US Geological Survey, SD
June Psaltis	MS, Renewable Natural Resources, 2001	Climate response, age distribution, and fire history of a Corkbark Fir (<i>Abies lasiocarpa</i> Var. <i>Arizona</i>) stand in the Santa Catalina Mountains, Arizona	Attorney, NY
Kurt F. Kipfmuller	PhD, Geography, 2003	Fire-climate-vegetation interactions in subalpine forests of the Selway-	Assistant Professor, Department of Geography, University

Name	Degree and Year	Thesis/Dissertation Title	Current Position
		Bitterroot Wilderness Area, Idaho and Montana, USA	of Minnesota
David E. Grow	PhD, Watershed Management, 2003	Effects of substrate on dendrochronologic streamflow reconstruction: Paria River, Utah with fractal application to dendrochronology	Natural resources consultant, IN
Donald A. Falk	PhD, Ecology & Evolutionary Biology, 2004	Scaling rules for fire regimes	Associate Professor, School of Natural Resources & Environment, University of Arizona
Jose M. Iñiguez	PhD, Watershed Management, 2006	Landscape fire history and age structure patterns in the sky islands of southeastern Arizona	Landscape Ecologist, Rocky Mountain Research Station, U.S. Forest Service, AZ
Elis Q. Margolis	MS, Watershed Management, 2003; PhD, Watershed Management, 2007	Fire history and fire-climate relationships in upper elevation forests of the Southwestern United States	Post Doctoral Scientist, University of Arizona
Calvin A. Farris	PhD, Geography, 2009	Spatial and temporal validation of fire-scar fire histories	Fire Ecologist, Lassen & Crater Lake National Parks, National Park Service, CA
Keith J. Lombardo	PhD, Geography, ABD	Fire and climate history of Southern California from tree rings	Fire Ecologist, Cabrillo National Monument, National Park Service, CA
Erica Bigio	MS, Geosciences, 2006; PhD, Geosciences, ABD	Tree ring and alluvial records of fire history in the southern Rocky Mountains	Graduate Assistant, UA
Troy Knight	PhD, Geography, 2011	Dendroclimatology and woodland demography dynamics in northeastern Utah	Assistant Professor, Environmental Studies, St. John's University, MN
Alison Macalady	PhD, Geography, 2007-present, ABD	Tree growth and mortality dynamics in pinyon-juniper woodlands of the Southwestern U.S.	Graduate Assistant, UA
Christopher Guiterman	PhD, SNRE, 2010-present	TBD	Graduate Assistant, UA

Numbers of Graduate Students Advised Each Year at University of Arizona (since 2000):

Year	Dissertation Director	MS Thesis Director	PhD Committee Member	MS Committee Member	Total Graduates Advised
2000	5	2	4	2	13
2001	6	1	2	2	11
2002	6	1	5	4	16
2003	6	1	3	3	13
2004	6	1	3	3	13
2005	5	1	3	3	12
2006	6	1	1	0	8
2007	7	0	1	0	8
2008	5	0	3	2	10
2009	4	0	2	2	8
2010	5	0	3	1	9
2011	5	0	4	2	11
2012	4	0	3	1	8

Post Doctoral Associates at University of Arizona:

Name	Dates	Topics	Current Position
Antonio Lara	1992	Tree-ring studies of Alerce, <i>Fitzroya cupressoides</i>	Professor, Universidad de Valdivia, Chile
Ramzi Touchan	1990-1995	Giant sequoia fire history and Southwestern fire history	Associate Research Professor, LTRR, University of Arizona
Chris Fastie	1995	Spruce bark beetle outbreaks on Kenai Peninsula, AK	Adjunct Professor, Middlebury College, VT
Henri Grissino-Mayer	1995-1997	Southwestern climate and fire history	Associate Professor, University of Tennessee
Ed Wright	2002	Southwestern fire history studies	Research Scientist, Lamont-Doherty Columbia Univ., NY
Don Falk	2004-2007	Multi-scale fire history, fire climate, and restoration ecology	Associate Professor, School of Natural Res. & Environment, UA
Ellis Margolis	2009-present	Southwestern fire and climate studies	Post Doc, LTRR

Other Teaching, Advising and Mentoring Activities:

Other UA graduate students I advised, mentored, and served on their dissertation committees, and their current positions (selected list):

- Kathryn M. Gregory-Wodzicki, PhD Geosciences 1992, independent consultant, formerly with Lamont-Doherty Earth Observatory of Columbia University
- Franco Biondi, PhD Watershed Management 1994, Associate Professor, Department of Geography, University of Nevada, Reno
- José Villanueva-Díaz, PhD 1996, University of Arizona, Professor, Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias (INIFAP), San Luis Potosí, Mexico
- Michael Medlar, PhD Geography 1997, Associate Professor, Department of Geography, Western Washington University, Bellingham
- John Maingi, PhD Arid Lands Resource Sciences 1998, Associate Professor, Department of Geography, Miami University, Oxford, OH
- Amy Hessler, PhD Geography 2000, Associate Professor, Department of Geography, University of West Virginia,
- Mary Henry, PhD Geography 2002, Associate Professor, Miami University, Department of Geography, Oxford, OH

Graduate students at other institutions to whom I provided advising, training in my lab, internships, review of theses, and their current positions (selected list):

- Drew Barton, PhD 1991, Univ. of Michigan, Assoc. Professor, Univ. of Maine, Farmingham
- Thomas Kitzberger, PhD 1994, University of Colorado, Professor at Universidad Nacional del Comahue, Bariloche, Argentina.
- Yves Jardon, PhD 1994, Université Laval, Quebec, Research Scientist, Université Laval
- Craig Allen, PhD 1995, University of California, Berkeley, Research Scientist, U.S. Geological Survey, Jemez Mountains Field Station
- Pete Fulé, PhD 1996, Northern Arizona University, Professor, Northern Arizona University
- Brendan Buckley, PhD 1997, University of Tasmania, Australia, Research Scientist, Lamont Doherty Tree-Ring Lab, Columbia University
- Marco Carrer, PhD 1997, University of Padova, Italy, Assistant Professor, Univ. of Padova
- Rosalyn Wu, MS 1997, Colorado State University, Fire Ecologist, U.S. Forest Service
- Andrew DeVolder, MS 1998, Northern Arizona University, Biologist/GIS Manager, U.S. Fish & Wildlife Service, Alaska
- Sara Cecilia Diaz Castro, PhD 1998, Universidad Nacional Autónoma de México, Research Scientist, Centro de Investigaciones Biológicas del Noroeste, La Paz
- Matts Niklasson, PhD 1998, Agriculture Sciences, Umeå, Sweden, Assistant Professor, Swedish Agricultural University, Alnarp
- James Bouldin, PhD 1999, University of California, Davis, Research Ecologist, UC, Davis
- Emily Heyerdahl, PhD 2001, University of Washington, Research Ecologist, U.S. Forest Service, Missoula, MT Fire Sciences Lab
- Peter Brown, PhD 2003, Colorado State University, Director and founder of Rocky Mountain Tree-Ring Lab, Adjunct Professor Colorado State University
- James Riser, MS 2004 Colorado State Univ., PhD graduate student, Washington State Univ.
- Megan Van Horne, MS 2005, Northern Ariz. Univ., Ecological Restoration Institute, NAU
- Steve Wathen, PhD 2006, University of California, Davis, Postdoc, Univ. Florida

External examiner at PhD defense for:

- Matts Niklasson -- University of Agriculture Sciences, Umeå, Sweden, 1998
- Kenneth Olaf Storaunet -- Norwegian University of Life Sciences, 2006
- Elizabeth M. Campbell -- Université du Québec a Montreal, 2007

PUBLICATIONS (by type and chronological order)

Edited Books

1. Dean, J. S., D. M. Meko, and **T. W. Swetnam**, editors. 1996. Tree Rings, Environment, and Humanity, Proceedings of the International Conference, Tucson, Arizona, 17-21 May, 1994. Radiocarbon, Tucson Arizona. 889 pp.
2. Veblen, T. T., W. Baker, G. Montenegro, and **T. W. Swetnam**, editors. 2003. Fire and Climatic Change in Temperate Ecosystems of the Western Americas. Ecological Studies Vol. 160. Springer, New York. 444 pp.
3. Hughes, M.K., **T.W. Swetnam**, and H.F. Diaz, editors. 2011. Dendroclimatology: Progress and Prospects, Springer, New York, 340pp.

Chapters in Books

1. **Swetnam, T. W.** and 9 other authors (all listed alphabetically). 1991. Biosphere-Climatic Interactions during the past 18,000 years: Towards a Global Model of the Terrestrial Biosphere. pages 25-42, In: R. S. Bradley, ed., Global Changes of the Past, Papers arising from the 1989 OIES Global Change Institute, Snowmass, Colorado, 24 July - 4 August, 1989. UCAR/Office for Interdisciplinary Earth Studies.
2. **Swetnam, T. W.**, and J. L. Betancourt. 1992. Temporal patterns of El Niño/Southern Oscillation - wildfire patterns in the southwestern United States. pages 259-270 In Diaz H. F. and V. M. Markgraf, eds., El Niño: Historical and Paleoclimatic Aspects of the Southern Oscillation, Cambridge University Press, Cambridge.
3. Wickman, B. E., R. R. Mason, and **T. W. Swetnam**. 1994. pages 251-261. Searching for long-term patterns of forest insect outbreaks. In: S. R. Leather, K. F. A. Walters, N. J. Mills, and A. D. Watt, eds., Individuals, Populations and Patterns in Ecology, Intercept Press, Andover, United Kingdom.
4. **Swetnam, T. W.** 1996. Fire and climate history in the Central Yenisey Region, Siberia. pages 90-104, In J. G. Goldammer and V. V. Furyaev, eds., Fire in Ecosystems of Boreal Eurasia. Kluwer Academic Publishers, London.
5. Goldammer, J. G. and **Swetnam, T. W.** (listed alphabetically with 8 other authors). 1996. Fire in ecosystems of Boreal Eurasia: The Bor Island Fire Experiment Fire Research Campaign: Asia-North (FIRESCAN). Chapter 81, pages 848-873, In J. S. Levine, Biomass Burning and Global Change, Vol. 2. The MIT Press, Cambridge, Massachusetts.
6. Allen, C. D., J. L. Betancourt, and **T. W. Swetnam**. 1998. Landscape Changes in the Southwestern United States: Techniques, Long-term Data Sets, and Trends. Pages 71-84, In T. Sisk, editor, Perspectives on the Land Use History of North America: A Context for Understanding our Changing Environment. U.S. Geological Survey, Biological Science Report USGS/BRD/BSR-1998-0003. 104 pp.

7. Kipfmüller, K. F. and **T. W. Swetnam**. 2001. Using dendrochronology to reconstruct the history of ecosystems. Chapter 8, pages 199-228, In D. Egan and E. A. Howell eds., *Techniques for Discovering Historic Ecosystems*. Island Press, Washington.
8. **Swetnam, T. W.**, C. H. Baisan, and J. M. Kaib. 2001. Forest fire histories in the sky islands of La Frontera. Chapter 7, pages 95-119, In G. L. Webster and C. J. Bahre eds., *Changing Plant Life of La Frontera: Observations on Vegetation in the United States/Mexico Borderlands*. University of New Mexico Press, Albuquerque.
9. **Swetnam, T. W.** and C. H. Baisan. 2003. Tree-ring reconstructions of fire and climate history in the Sierra Nevada and Southwestern United States. pages 158-195, In: T. T. Veblen, W. Baker, G. Montenegro, and **T. W. Swetnam**, editors. *Fire and Climatic Change in Temperate Ecosystems of the Western Americas*. Ecological Studies Vol. 160. Springer, New York.
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 15. Grissino-Mayer, H. D., and **T. W. Swetnam**. 1995. Effects of habitat diversity on fire regimes in El Malpais National Monument, New Mexico. In: J. K. Brown, R. W. Mutch, C. W. Spoon, and R. H. Wakimoto, tech. coords., Proceedings: Symposium on Fire in Wilderness and Park Management, Missoula, MT, March 30-April 1, 1993. *USDA Forest Service, General Technical Report INT-320*; pages 195-200.
 16. Grissino-Mayer, H. D., C. H. Baisan, and **T. W. Swetnam**. 1995. Fire history in the Pinaleno Mountains of Southeastern Arizona: Effects of human-related disturbances. In L. DeBano et al. tech. coords., Biodiversity and Management of the Madrean Archipelago: The Sky Islands of Southwestern United States and Northwestern New Mexico, September 19-23, 1994, Tucson, Arizona, *USDA Forest Service, General Technical Report RM-GTR-264*; pages 399-407.
 17. Mutch, L., and **T. W. Swetnam**. 1995. Effects of fire severity and climate on ring-width growth of giant sequoia after burning. In: J. K. Brown, R. W. Mutch, C. W. Spoon, and R. H. Wakimoto, tech. coords., Proceedings: Symposium on Fire in Wilderness and Park Management, Missoula, MT, March 30-April 1, 1993. *USDA Forest Service, General Technical Report INT-320*; pages 241-246.
 18. Touchan, R., **T. W. Swetnam**, and H. D. Grissino-Mayer. 1995. Effects of livestock grazing on pre-settlement fire regimes in New Mexico. In: J. K. Brown, R. W. Mutch, C. W. Spoon, and R. H. Wakimoto, tech. coords., Proceedings: Symposium on Fire in Wilderness and Park Management, Missoula, MT, March 30-April 1, 1993. *USDA Forest Service, General Technical Report INT-320*; pages 268-272.
 19. Touchan, R., C. D. Allen, and **T. W. Swetnam**. 1996. Fire history and climatic patterns in ponderosa pine and mixed-conifer forests of the Jemez Mountains, Northern New Mexico. In C. Allen, editor, Fire effects in Southwestern Forests, Proceedings of the Second La Mesa Fire Symposium, Los Alamos, New Mexico, March 29-31, 1994. *USDA Forest Service, General Technical Report RM-GTR-286*; pages 33-46.
 20. Seklecki, T. M., H. D. Grissino-Mayer, and **T. W. Swetnam**. 1996. Fire history and the possible role of Apache-set fires in the Chiricahua Mountains of Southeastern Arizona. In P. F. Ffolliott et al. tech. coords., Effects of fire on Madrean Province Ecosystems, A symposium proceedings, *USDA Forest Service, General Technical Report RM-GTR-289*; pages 238-246.
 21. Kaib, J. M., C. H. Baisan, H. D. Grissino-Mayer, and **T. W. Swetnam**. 1996. Fire history in the gallery pine-oak forests and adjacent grasslands of the Chiricahua Mountains, Arizona. In

- P. F. Ffolliott et al. tech. coords., Effects of fire on Madrean Province Ecosystems, A symposium proceedings, *USDA Forest Service, General Technical Report RM-GTR-289*; pages 253-264.
22. **Swetnam, T. W.** and C. H. Baisan. 1996. Historical fire regime patterns in the Southwestern United States since AD 1700. In C. Allen, editor, *Fire effects in Southwestern Forests, Proceedings of the Second La Mesa Fire Symposium, Los Alamos, New Mexico, March 29-31, 1994. USDA Forest Service General Technical Report RM-GTR-286*; pages 11-32.
 23. **Swetnam, T. W.** and C. H. Baisan. 1996. Fire histories of montane forests in the Madrean Borderlands. In P. F. Ffolliott et al. tech. coords., *Effects of fire on Madrean Province Ecosystems, A symposium proceedings, USDA Forest Service, General Technical Report RM-GTR-289*; ; pages15-36.
 24. Wickman, B. E. and **T. W. Swetnam**. 1997. Interactions of fire and defoliating insects in western forests: some multi-century patterns. In *Diverse forests, abundant opportunities, and evolving realities, Proceedings of the 1996 Society of American Foresters Convention, Albuquerque, NM November 9-13, 1996. Society of American Foresters, Bethesda, MD. Pages 222-227.*
 25. Rollins, M. and **T. W. Swetnam**, and P. Morgan. 2000. Twentieth century fire patterns in the Gila/Aldo Leopold Wilderness Complex New Mexico and the Selway-Bitterroot Wilderness Area Idaho/Montana. In Cole, D. N., S. McCool, W. T. Borrie, and J. O'Laughlin, compilers. *Wilderness science in a time of change conference -- Volume 5: Wilderness ecosystems, threats, and management; 1999 May 23-27; Missoula, MT. USDA Forest Service, Proceedings RMRS-P-0-VOL5.*
 26. Kipfmüller, K.F. and **T. W. Swetnam**. 2000. Fire-climate interactions in the Selway-Bitterroot Wilderness Area. In Cole, D. N., S. McCool, W. T. Borrie, and J. O'Laughlin, compilers. *Wilderness science in a time of change conference -- Volume 5: Wilderness ecosystems, threats, and management; 1999 May 23-27; Missoula, MT. USDA Forest Service, Proceedings RMRS-P-0-VOL5.*
 27. Falk, D. A. and **T. W. Swetnam**. 2002. Scaling rules and probability models for surface fire regimes in ponderosa pine forests. In: Omi, Philip N.; Joyce, Linda A., technical editors. *Fire, fuel treatments, and ecological restoration: Conference proceedings; 2002 16-18 April; Fort Collins, CO. USDA Forest Service, Proceedings RMRS-P-29*; pages 301-318.
 28. **Swetnam, T. W.** 2005. Fire histories from pine-dominant forests in the Madrean Archipelago. In: *Connecting mountain islands and desert seas: biodiversity and management of the Madrean Archipelago II. Gottfried, Gerald J.; Gebow, Brooke S.; Eskew, Lane G.; and Edminster, Carleton B., compilers. 2004 May 11-15; Tucson, AZ. USDA Forest Service, Proceedings RMRS-P -36*; pages 35-43.

Other Publications (opinion-editorials, introductions to special issues, etc.):

1. **Swetnam, T. W.** 1988. Forest fire primeval. *The World and I* 3:236-241.
2. Parsons, D. J., **T. W. Swetnam**, and N. L. Christensen, Jr. 1999. Introduction to Invited Feature on Historical Variability Concepts in Managing Ecosystems. *Ecological Applications* 9(4):1177-1178.
3. **Swetnam, T. W.** 2000. Defusing time bombs. Op-Ed in the *Albuquerque Journal*, Sunday June 4, 2000

4. **Swetnam, T. W.** 2000. Climate and the western wildfire problem. Op-Ed in the *Arizona Daily Star* (Tucson), Sunday September 10, 2000.
5. **Swetnam, T. W.** 2002. Fire and climate history in the western Americas from tree rings. *PAGES News* (International Geosphere Biosphere Program), 10(1) April 2002.
6. Betancourt, J.L., **T. W. Swetnam**, C. Allen, and M. Savage. 2003. Fire in the West: It's no Simple Story, Op-Ed in *High Country News*, July 7, 2003.
7. **Swetnam, T. W.** 2003. Living with Fire. Op-Ed published in the *Arizona Daily Star*, and Arizona Republic, Sunday August 10, 2003.
8. Barrett, S. W., **T. W. Swetnam**, and W. L. Baker. 2005. Indian fire use: deflating the legend. *Fire Management Today* 65(3): 31-33.
9. **Swetnam, T. W.** and K. Flessa. 2005. The US needs the best science, not political intimidation of scientists. Guest column in *Arizona Daily Star*, Sunday July 23, 2005.
10. CIRMOUNT Committee [14 authors including **T.W. Swetnam**]. 2006. Mapping New Terrain: Climate Change and America's West. Report of the Consortium for Integrated Climate Research in Western Mountains (CIRMOUNT), *USDA Forest Service, Misc. Pub., PSW-MISC-77*. 29 pp.
11. **Swetnam, T.W.** 2007. Climate change and the changing landscape. *Sky Island Alliance Newsletter*, Summer 2007.
12. **Swetnam, T. W.** and R. S. Anderson. 2008. Fire climatology in the western United States: Introduction to special issue. *International Journal of Wildland Fire* 17:1-7.
13. **Swetnam, T. W.** 2008. The perfect firestorm. *Wildland Firefighter* May 2008.
14. M. Skroch and **T. Swetnam**. 2008. The public should accept more frequent, but less destructive forest fires. Op-Ed in *Arizona Daily Star*, Sunday July 6, 2008.
15. **Swetnam, T.W.** 2009. Fire history in California, Introduction to special issue. *Fire Ecology* 5(3):1-3.
16. **Swetnam, T.W.** 2010. Marvin A. Stokes, In Memoriam. *Tree-Ring Research* 66(2):143-144.
17. Falk, D.A., E. K. Heyerdahl, P. M. Brown, **T.W. Swetnam**, E. K. Sutherland, Z. Gedalof, L. Yocom, and T. J. Brown. 2010. Fire and climate variation in western North America from fire-scar and tree-ring networks (International Geosphere-Biosphere Program) *PAGES news* Vol 18(2):70-72, August 2010.

Published Congressional Testimony:

- Swetnam T.W.** and A.L. Westerling. Hearing before the Committee on Energy and Natural Resources, United States Senate, One Hundred Tenth Congress, First Session, To Consider Scientific Assessments of the Impacts of Global Climate Change on Wildfire Activity in the United States, September 24, 2007. S. HRG. 110-228, U.S. Government Printing Office, Wash. D.C.
- Swetnam T.W.** Oversight Field Hearing before the Subcommittee on National Parks, Forests and Public Lands, of the Committee on Natural Resources, U.S. House of Representatives, One Hundred Eleventh Congress, First Session, on The Impacts of Climate Change on America's National Parks, April 7, 2009. Serial No. 111-16. Government Printing Office, Wash. D.C.

Theses:

- 1983 Fire History of the Gila Wilderness, New Mexico, MS Thesis, School of Renewable Natural Resources, University of Arizona. 140 pgs.
 1987 A dendrochronological assessment of western spruce budworm, *Choristoneura occidentalis* Freeman, in the southern Rocky Mountains, Ph.D. Dissertation, School of Renewable Natural Resources, University of Arizona. 213 pgs.

Six most frequently cited journal articles, as of March 7, 2012:

	<u>Thomson ISI Citations</u>	<u>Google Scholar Citations</u>
Westerling et al. (2006, <i>Science</i> 313:940-943)	637	1123
Swetnam, Allen and Betancourt (1999, <i>Ecological Applications</i> 9:1189-1206)	392	658
Swetnam and Betancourt (1998, <i>Journal of Climate</i> 11:3128-3147)	365	562
Swetnam (1993, <i>Science</i> 262:885-889)	305	496
Allen et al. (2002, <i>Ecological Applications</i> 12:1418-1433)	254	483
Swetnam and Betancourt (1990, <i>Science</i> 249:1017-1020)	274	470
Total citations of all papers in database:	3,932	8,930
h-index	25	42

Impact Factors of selected Journals Published in (from Journal Citation Reports 2010):

	<u>Impact Factor</u>	<u># of Papers</u>
<i>Science</i>	31.377	4
<i>Proceedings of National Academy of Sciences</i>	9.380	2
<i>Frontiers in Ecology & Environment</i>	8.820	1
<i>Global Ecology and Biogeography</i>	5.273	1
<i>Ecological Monographs</i>	5.238	1
<i>Ecology</i>	4.874	2
<i>Journal of Climate</i>	4.307	1
<i>Journal of Biogeography</i>	4.273	1
<i>Quaternary Science Reviews</i>	3.693	1
<i>Ecological Applications</i>	3.628	5
<i>Ecology and Society</i>	2.855	1
<i>Landscape Ecology</i>	2.453	1
<i>Quaternary Research</i>	2.457	2
<i>Holocene</i>	2.167	3
<i>Forest Ecology & Management</i>	2.110	1
<i>International Journal of Climatology</i>	1.971	1

<i>Forest Science</i>	1.664	3
<i>Canadian Journal of Forest Research</i>	1.434	6
<i>International Journal of Wildland Fire</i>	1.432	2
<i>Advances in Ecological Research</i>	1.200	1
<i>Rangeland Ecology & Management</i>	1.107	1
<i>Natural Areas Journal</i>	0.750	1
<i>Physical Geography</i>	0.613	1
<i>Tree-Ring Research (Bulletin)</i>	0.300	2

RESEARCH GRANTS & CONTRACTS (1983 to 2012)

Project Title	Funding Source	Co-PIs, PIs*, Students & Postdoc#	Duration	Funding Amount
Radial Growth Analysis of Western Spruce Budworm Damage	USDA Forest Service Southwestern Region		1/83-1/84	\$7,600
Development of a manuscript describing the field and techniques for assessing effects of western spruce budworm defoliation on radial growth of infested trees	USDA Forest Service Pacific Northwest Forest Experiment Station		1/84-12/84	\$3,000
Assessment of Impacts to Tree Radial Growth Caused by Western Spruce Budworm Defoliation	USDA Forest Service Southwestern Region, and Canada-United States Spruce Budworm Research Program		1/84-12/85	\$12,895
Radial Growth Assessment of Defoliated Trees in the Colorado Front Range	USDA Forest Service, Rocky Mountain Region		5/85-8/86	\$9,582
Development of a manuscript on dendroecology	Utility Air Regulatory Group, Acid Deposition Committee, Washington, D C	H Fritts*	06/86-06/87	\$4,000
Evaluation of Severity of Spruce Budworm in Mixed Conifer Habitat Types of the Southwest	USDA Forest Service, Rocky Mountain Forest and Range Experiment Station		8/86-9/87	\$15,000
Preliminary Tree -Ring Chronology Development of Redwood National Park	USDI National Park Service, Redwood NP		1/87-4/87	\$3,000

Dendrochronological Assessment of the Severity of Western Spruce Budworm Outbreaks	USDA Forest Service, Rocky Mountain Forest And Range Experiment Station	A Lynch	4/87-12/88	\$27,000
Giant Sequoia Fire History: A Feasibility Study	USDI National Park Service, Sequoia National Park	C Baisan	7/87-6/88	\$19,711
Analysis of Growth Trends and Variations in Conifers in the Southwestern United States	Environmental Protection Agency, Western Conifers Research Cooperative, National Acid Precipitation Program	D Graybill*	7/87-2/90	\$222,327
Fire History Study of Rhyolite Canyon, Chiricahua National Monument	USDI National Park Service, Southern Arizona Group Office	C Baisan	9/87-9/88	\$9,988
Tree-Ring Dating of Peeled Ponderosa Pines from Dolores River, Colorado	Goodson and Associates, Denver Colorado		11/87-3/88	\$1,000
Dating of Fire History Specimens from Bandelier National Monument	USDI National Park Service, Bandelier NM	C Baisan	3/88-9/88	\$4,500
Tree-Ring Reconstruction of Giant Sequoia Fire Regimes	USDI National Park Service, Sequoia, Kings Canyon and Yosemite NPS	C Baisan, T Caprio, R Touchan#	7/88-12/91	\$195,260
Tree-Ring Dating of Fire Scarred White Bark Pine from Yellowstone	University of Idaho	C Baisan	4/89-6/89	\$2,000
Tree-Ring Dating of Fire Scarred Coast Redwood Specimens	USDI National Park Service, Redwood NP	P Brown#	8/89-9/89	\$4,000
Tree-Ring Dating of Fire Scarred Ponderosa Pine from Walnut Canyon National Monument, Arizona	USDI National Park Service, Southern Arizona Group Office	C Baisan	10/89-3/90	\$2,700
Reconstruction of Fire and Flood History in Rhyolite Canyon, Chiricahua National Monument, Arizona	Southwest Parks and Monuments Association	C Baisan	10/89-12/90	\$5,048

Tree-Ring Investigation to Reconstruct Western Spruce Budworm Outbreak History in the Sacramento Mountains, New Mexico	USDA Forest Service, Southwestern Region Office	A Lynch	5/90-6/92	\$9,950
Fire History for Northern New Mexico	USDI National Park Service, Bandelier NM and USDA National Forest Service, Santa Fe NF	R Touchan#, C Allen	9/90 5/91	\$38,000
Assessment of Phenological Growth Patterns in Conifer Species in Chiricahua National Monument, Arizona	Southwest Parks and Monuments Association	C Baisan	10/90-12/93	\$16,313
A tree-ring history of western spruce budworm and Douglas-fir tussock moth history in the Blue Mountains, Oregon	US Forest Service, Pacific Northwest Research Station	B Wickman, C Baisan	11/90-06/95	\$42,000
Dendroecological Research on Mt Graham	USDA Forest Service	H Grissino-Mayer#	5/91-2/92	\$4,048
Fire history and climatology in the southern and central Sierra Nevada	National Park Service, Global Change Program	C Baisan, K Morino#	6/91-5/97	\$302,887
Dendrochronology and Paleoenvironmental Research of El Malpais National Monument	USDI National Park Service, El Malpais NM	H Grissino-Mayer#	6/91-6/94	\$38,677
Organ Mountain Fire History	State of New Mexico, Natural Heritage Program, and The Nature Conservancy	K Morino#	12/91-6/94	\$39,891
Radial Growth Response of Giant Sequoia to High Intensity Fire	State of California, Department of Forestry	T Caprio, L Mutch#, C Baisan	1/92-12/93	\$13,284
Fire history of Desert-Island Mountain Ranges in the Mexican Borderlands Region	The Nature Conservancy	C Baisan	3/92-12/94	\$56,276
Long-term Dynamics of Whitebark Pine in the Sawtooth Wilderness, Idaho	USDA Forest Service, Intermountain Forest Experiment Station	D Perkins#	5/92-6/96	\$41,000
The influence of Fire-Climate Interactions on the Growth of Giant Sequoias	USDI National Park Service, Interagency Fire Center	L Mutch#	6/92-12/93	\$31,416
Sandia and Manzano Mountain Fire History	USDA Forest Service, Cibola NF	C Baisan	9/92-9/95	\$25,000

Climatic variation in the Sonoran desert from instrumental climate data and tree rings	National Biological Service and National Park Service	D Meko*, C Baisan	3/93- 3/98	\$215,000
Fire History of the Calaveras Giant Sequoia Groves	State of California, State Parks Department	C Baisan	7/93- 12/98	\$65,000
Dendrochronology/Paleoenvironmental research at Bandelier National Monument	National Park Service	C Allen, C Baisan	7/93- 6/94	\$7,400
Paleofire and climate history in Siberia	National Science Foundation		7/93- 12/94	\$15,000
Role of climate in masting, recruitment and mortality of pinyon pine	US Forest Service, Rocky Mountain Research Station	J Betancourt, G Gottfried	6/94- 6/96	\$48,500
A millennial length reconstruction of climate for the middle Rio Grande Basin from tree rings	US Forest Service, Rocky Mountain Research Station	H Grissino-Mayer#, C Baisan	6/94- 5/98	\$20,000
The long-term role of wildfire and spruce bark beetle outbreaks in forest dynamics at the Kenai National Wildlife Refuge, Alaska	US Fish & Wildlife Service	C Fastie#	7/94- 5/97	\$69,720
Mapping past and potential fire regimes in Rocky Mountain wilderness landscapes	US Forest Service, Aldo Leopold Research Institute	P Morgan, M Rollins	8/94- 5/98	\$76,609
Regional dendroecology research	US Forest Service, Rocky Mountain Research Station	C Baisan, K Morino#, R Abolt#, M Wilkinson#, S Danzer#, D Ryerson#	9/94- 9/99	\$217,810
Fire regime reconstruction in the Southwestern borderlands	US Forest Service, Rocky Mountain Research Station	M Kaib#, C Baisan	9/94- 8/97	\$78,849
Development of dendroclimatic reconstructions	Department of Defense and US Geological Survey	H Grissino-Mayer#	2/95-2/95	\$9,028
Develop tree-ring chronologies from the areas of west Texas, northern Mexico, and southern New Mexico	Department of Defense and US Geological Survey	H Grissino-Mayer#	7/95- 2/96	\$46,840
Expanded fire regime studies in the Jemez Mountains, New Mexico	National Biological Service	C Allen, C Baisan, K Morino#	8/95- 1/97	\$35,692

A tree-ring reconstruction of pandora moth population history in central and southern Oregon	US Forest Service, Pacific Northwest Research Station	J Speer#, M Hughes, G Garfin, A Youngblood C Baisan	9/95- 12/97	\$45,800
Expanded fire history in Chiricahua National Monument	National Park Service, Southern Arizona Group Office	C Baisan, S Danzer#	8/96- 12/98	\$29,000
Fire regime assessment for Coronado National Memorial	National Park Service, Southern Arizona Group Office	C Baisan, K Morino#	8/96- 12/98	\$12,500
Climate-fire ecosystem linkages on decadal-centennial time scales in the northern Rockies	National Science Foundation, Geography and Atmospheric Dynamics Programs	K Kipfmuelle# M Rollins#, P Morgan, C Whitlock	8/97- 7/00	\$196,463
Fire effects on Huachuca mountain mixed-conifer forests and associated species of concern	The Nature Conservancy	K Morino#	7/98- 10/98	\$4,300
Climate change and the stability of sky-island conifer populations in the Sonoran desert	US Geological Survey, Biological Resources Division, Global Change program	D Meko*, J Kirkby#, C Baisan	8/98- 12/99	\$19,944
Fire History Inventories-Assist Administration Planning for the Tonto National Forest, Central Arizona	Tonto National Forest, US Forest Service	M Kaib#	8/98-8/03	\$40,000
Crown fire histories, bog fire scar histories and drought-induced ecotone shifts	US Geological Survey, National Biological Service, and Global Change Program	C Baisan, C Allen, S Anderson	4/99- 12/04	\$245,621
Sierra Nevada forest dynamics	US Geological Survey, National Biological Service, Global Change Program	C Baisan	5/99- 4/04	\$165,056
Fire history and restoration research in Monument Canyon Research Natural Area	USDA Forest Service, Interagency Joint Fire Science Program	D Falk#	7/99- 3/03	\$111,332
Pinyon Juniper woodland fire history studies in southern New Mexico	Department of Defense and the University of New Mexico	C Baisan, E Muldavin	10/99- 12/03	\$25,200

Tree-Ring assessment of tent caterpillar outbreaks in aspen stands on northern New Mexico	US Forest Service, Rocky Mountain Research Station	C Baisan, A Lynch, I Garcia	9/00-4/1/03	\$5,970
Climatic and Human Impacts on Fire Regimes in Forests and Grasslands of the U S Southwest: Assessing the Consequences of Interactions between Human Activities and a Changing Climate	FY 2000 Science-Achieve Results STAR Program, National Center for Environmental Research, Environmental Protection Agency	B Morehouse* J Overpeck, S Yool, B Orr, G Christopherson	11/00-10/03	\$1,260,993
The Monument Canyon Restoration Program: Reducing extreme fire risk & conducting research in an old-growth New Mexico Ponderosa pine forest	USDA Forest Service, Collaborative Forest Restoration Program	D Falk#	10/01-9/05	\$344,824
Landscape Fire History Patterns in the Sky Islands of Southeastern Arizona	Rocky Mountain Research Station, US Forest Service	J Iniguez#, C Baisan	3/13/02-12/31/04	\$79,421
Dissertation Research: Ecological effects of temporal and spatial variability in the disturbance regime of an old-growth Ponderosa Pine Forest	Ecological Studies Program, NSF	D Falk#	6/02-5/03	\$5,108
ESA Program Chair Assistant and Expenses	Ecological Society of America		12/02-11/03	\$59,000
Paleofire History Workshop, Flagstaff Arizona	NOAA Offices of Global Programs , US Forest Service, Pac NW Research Station , PAGES, Inter-American Institute , and Joint Fire Sciences Program	C Whitlock, S Anderson	03/23-28/02	\$55,000
A Fire-Climate Synthesis in the Western United States	Western Mountain Initiative, USGS Global Change Program	C Baisan	8/04-12/06	\$48,979
Comparing Fire scar analysis, fire atlas records and fire simulations in the Saguaro-Rincon Mountains Wilderness	Aldo Leopold Wilderness Research Institute, US Forest Service	C Farris#, C Baisan	09/01-12/05	\$91,961

FSML: Promoting Biological Research on the Colorado Plateau with the Merriam-Powell Research Station	National Science Foundation DBI-0224851	M Wagner*, J Collins, S Smith (all funds to NAU)	9/02- 8/05	\$249,010
Extension to the International Multiproxy Paleofire Database	USDA Forest Service	C Woodhouse, P Brown	9/04- 9/06	\$3,000
Variability, Social Vulnerability and Public Policy in the Southwestern US -- Phase 2, also known as the Climate Assessment for the Southwest	NOAA Office of Global Programs Grant NA16GP2578	J Overpeck*, Swetnam was one of nine co-PIs	6/02- 05/07	\$4,452,000
Response of western mountain ecosystems to climate variability and change	US Geological Survey	C Baisan	9/06- 03/08	\$29,218
Multi-century reconstruction of chaparral fire history using fire-scarred bigcone Douglas-fir in three southern California National Forests	USDA Forest Service, Interagency Joint Fire Science Program	K Lombardo#, C Baisan, M Borchert	10/06- 09/09	\$130,000
Fire regimes of montane grasslands of the Valles Caldera National Preserve, New Mexico	USDA Forest Service, Interagency Joint Fire Science Program	D Falk*, C Allen, B Parmenter	10/06- 04/11	\$224,890
Growth and Demography of Pinaleno High Elevation Forests	USDA Forest Service, Rocky Mountain Research Station	D Falk*, A Lynch	9/07- 9/12	\$128,192
Fire history and stream flow reconstruction in the Santa Fe Watershed	City of Santa Fe, NM	E Margolis#, C Allen	11/07- 12/08	\$102,337
Decision Support for Defining Historical Fire Regimes: The International Multiproxy Paleofire Database	Science Foundation Arizona	C Woodhouse * P Brown	01/07- 01/9	\$71,195
Catalina-Rincon-FireScape	US Forest Service, Coronado NF	D Falk*	08/09- 01/14	\$560,000
Exploring integrated natural-cultural-interpretive questions through tree-ring analyses	National Park Service, Sonoran Desert Inventory & Monitoring Network	J Balmat, C Baisan	6/08-3/11	\$10,000

Fire and Climate Change: A New Synthesis	Joint Fire Sciences Program (USDI/USDA) and U.S. Forest Service	D Falk E Sutherland P Brown T Brown	8/09-04/12	\$306,324
The Impacts of Fire on Carbon Cycling in Siberia	National Aeronautics and Space Administration, and U.S. Forest Service	S Conard* and others	06/10-6/14	\$370,000
Fingerprinting causes of increasing tree mortality in the Southwestern US	National Park Service	A Macalady#	8/09-11/10	\$24,363
An assessment of current fire condition in selected plant communities in Zion National Park	National Park Service	D Falk, P Brown	07/10-09/12	\$49,921
Assessing forest age structure and tree spatial patterns in repeatedly burned forests: Gila National Forest, NM	U.S. Forest Service	Ellis Margolis#*	09/09-09/11	\$61,000
Elucidating the response of pinyon pine in the southwestern United States to climate variability through dendroecological and carbon isotope analyses	Los Alamos National Laboratories	A Macalady#	10/10-09/12	\$95,496
Saving the World's Largest and Most Significant Dendrochronology Collection	National Park Service, National Endowment for the Humanities	P Creasman*	06/11-05/13	\$425,000
Processes and Patterns in the North American Monsoon Macrosystem	National Science Foundation, Macrosystems Biology	R Monson*, S Leavitt, C Woodhouse and others	04/11-04/16	\$3,800,000
Long-term vulnerability and resilience of coupled human-natural ecosystems to fire regime and climate changes at an ancient Wildland Urban Interface	National Science Foundation, Dynamics of Coupled Human-Natural Systems	C Roos, TJ Ferguson, S Chavarria, R Keane, M Liebmann	09/11-12/14	\$1,498,027

EXTRAMURAL SERVICE AND OUTREACH

Professional:

- Local Host, Ecological Society of America Meeting, 2002, approx. 3,000 attendees
- Program Chair for Ecological Society of America Annual Meetings, 2003-2004
- Treasurer, Tree-Ring Society 2003-present

Editorial and Review:

Editor and Associate Editor for eight different journals since 1994, see page 2

Journal Article and Proposal Reviews:

I do not maintain a count of articles and proposals that I review for scientific journals and funding agencies, however, I typically review 10 to 15 journal articles each year, and 5 to 10 proposals each year, in addition to those handled as associate editor. The following is a selected list of journals and agencies I have served as a reviewer:

Journal reviews:

<i>Annals of the Association of American Geographers</i>	<i>BioScience</i>
<i>British Journal of Ecology</i>	<i>Bull of the American Met. Society</i>
<i>Canadian Journal of Forest Research</i>	<i>Climatic Change</i>
<i>Dendrochronologia</i>	<i>Ecology</i>
<i>Ecological Monographs</i>	<i>Ecological Applications</i>
<i>Ecoscience</i>	<i>Forest Ecology & Management</i>
<i>Fire Ecology</i>	<i>Forest Science</i>
<i>Frontiers in Ecology</i>	<i>Geophysical Research Letters</i>
<i>Global Ecology & Biogeography</i>	<i>Holocene</i>
<i>International Journal of Wildland Fire</i>	<i>Journal of Biogeography</i>
<i>Landscape Ecology</i>	<i>Nature</i>
<i>Nature Geosciences</i>	<i>Proc. Natl. Academy of Sciences</i>
<i>Quaternary Research</i>	<i>Tree-Ring Research</i>
<i>Science</i>	

Agency Proposal Reviews:

Joint Fire Sciences Program (U.S. Departments of Interior and Agriculture), National Geographic Society, National Science Foundation, US Forest Service, and National Oceanic and Atmospheric Administration.

Advisory Service:

See list of Advisory Committees, page 2.

Other, selected list of advisory service:

- Technical review panelist for USDA Forest Service research program at Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO, 1996, 1997.
- Reviews of materials for Canadian Chairs Program (3 candidates since 2000)
- Consultation/input to General Accounting Office (investigative agency of US Congress) study on forest fire management and policy issues in US, November 2003
- Panel Member, USDA Forest Service review of Aspen Fire circumstances and responses, Tucson, AZ, January 12, 2004
- Review panel for The Nature Conservancy and US Forest Service collaborative ecosystem management program in Southwestern Region, May 1-2, 2006, Tucson, AZ
- Taped Interviews for National Advanced Fire and Resource Institute's, "Lessons Learned

- Center” on fire and climate, for project investigation on “expert” knowledge, 2006
- Briefing for Congresswoman Gabriel Giffords, on climate change, May, 2006
- Panelist for Congressman Raul Grijalva’s “Climate Change Round Table” Tucson, April 6, 2007
- Briefing on climate change impacts on forests in the Southwest, at US Forest Service SW Regional Office, to all SW National Forest Supervisors and Regional Forester, Albuquerque, NM, May 15, 2007
- Briefing for the Chief of the US Forest Service and the Southwest Regional Forester, on climate change in the Southwest, Tucson, AZ, May 21, 2008.
- External review panel for USDA/USDI Joint Fire Sciences Program (\$8-10 million/yr program), November, 2008
- Briefing for Salt River Project managers, on climate and tree rings, Phoenix, Aug. 28, 2009

External Reviewer for University Promotion and Tenure, and Institute/Agency Promotion Cases:

24 cases since 2000

Interviews and Media Coverage (selected list):

Print:

- *New York Times*, October 1, 2011, “Temperature Rising: Threats to a Crucial Canopy” by Justin Gillis (front page)
- *National Geographic Magazine*, February 2008, “Drying of the West” by Robert Kunzig
- *New York Times*, March 27, 2007 “Heat Invades Cool Heights Over Arizona Desert” by Timothy Egan (front page below the fold)
- *Scientific American*, December 26, 2006 “Warmer Atlantic, Climate Change Presage More and Worse, Western Wildfires”, by David Biello
- *Discover Magazine*, June 25, 2006 “Fire in the Sky: Why America’s Ecological Treasures Just Need to Burn”, by Jeff Wheelwright
- *USA Today*, February 27, 2006, “Parched New Mexico gets a taste of climate change”, by Pat O’Driscoll
- *High Country News*, January 24, 2005, “Written in the Rings Tree rings reveal the climate of the past and help foretell the future. Their message? Get ready for hot, dry times”, by Michelle (AGU Sullivan Award for science journalism)
- *Time Magazine*, August 16, 2004 “Why the West is Burning”, by Madeleine Nash
- *Time Magazine*, August 18, 2003 “Fireproofing the Forests”, by Madeleine Nash
- *BioScience*, May 2000, “Reading between the lines: Dendrochronologists find that the past is still present in tree rings” by Scott Norris
- *New York Times*, May 11, 1996 “In Sick, Crowded Ponderosa Forests of West, Seeds of Infernos Lie Ominously in Wait”, by George Johnson
- *New York Times*, December 1, 1992 “Warming? - Tree rings say not yet”, by Natalie Angier (Science section)

Television and Radio:

- *KUAT Arizona Illustrated*, interviews with Bill Buckmaster and Kimberly Kraft, 5 times since 2000
- *PBS News Hour with Jim Lehrer*, October 7, 2003, “Western Drought”, (interview by Ted Robbins)
- *ABC World News* (interviewed by Brian Rooney) on drought, May 21, 2004
- *Desert Speaks* –Two 30 minute episodes, field trips to ancient bristlecone pines, giant sequoia groves, and northern New Mexico, with host David Yetman, June 2005
- *ABC Radio Nation (Australia) The Science Show*, May 2007, “Tree Rings”, with Robyn Williams (written transcript, and audio interview)
- *PBS National Public Radio*, July 21, 2007 “Hotter, Drier Climate Moves up Sky Islands’ Slopes”, by Ted Robbins (written article and audio interview)
- *CBS 60 Minutes*, “The Age of Mega-Fires”, interview by Scott Pelley, aired nationally twice in 2007, and once in 2009

Misc. Invited Public Presentations, Tours etc. (selected list):

- NM Native Plant Society, Silver City, May 1996
- Southwestern Region Interagency Fire Dispatcher’s Meeting, Phoenix, AZ, Jan. 28. 1998
- Society of American Foresters SW section meeting, Tempe, AZ, Mar. 5. 1998
- Southwest Fire Management workshop, Albuquerque, NM, April 14. 1998
- TransWorld Airlines retiree’s luncheon (UA speakers program), April 21. 1998
- US Forest Service “Media Day” at Sabino Canyon Visitor Center, May 21. 1998
- American Meteorological Society, UA Chapter meeting, Tucson, AZ, Oct. 29. 98
- No. New Mexico Comm. College, fire, tree-rings, El Niño, Española, NM, Nov. 24. 98
- Environmental History Conf., tour Tree-Ring Lab and Santa Catalinas, Apr 16, 1999
- USFS Forest Pest Management directors, western US, tour of LTRR, March 22, 2000
- Rincon Optimists Club, on climate change, May 10, 2000
- Santa Fe NM, city council on fire hazard within the Santa Fe watershed and options for forest restoration, June 28, 2001
- Bureau of Land Management Science Advisory Team, March 6, 2001
- Southern Arizona Native Plant Society, Tucson Botanical Gardens, April 19, 2001
- Audubon Society, Randall-Davey Center, Santa Fe, NM, October 12, 2001
- Sky Island Alliance, University Medical School Auditorium, Tucson, January 8, 2002
- “Fire Learning Network” The Nature Conservancy, field trip in Jemez Mountains, NM, sponsored by, April 3, 2002
- High Desert Museum, Bend, Oregon, fire, insects and tree rings, June 8, 2002
- Rincon Optimist’s Club, on Tree Rings, August 14, 2002
- Rotary Club, on climate and fire in the western US, Tucson, February 27, 2003
- Joint Fire Sciences Program (JFSP), Southwest Workshop, Tucson, March 25-27, 2003
- Arizona Geological Society, on tree rings, drought, and fire, Tucson, June 3, 2003
- 50th Anniversary of the Discovery of Ancient Bristlecone Pines, and dedication of new visitor’s center, at Schulman Grove, Bishop, CA, September 12, 2003
- Science and Environmental Change, Science and Math High School teachers Conference, Ironwood Elementary School, Tucson, AZ, February 7 2004

- So. Arizona Chapter of Society of American Foresters, on fire and climate, Mar. 18, 2004
- Forest Restoration Workshop, Gila National Forest and The Nature Conservancy, Silver City, NM, April 21-22, 2004
- Western Forest Leadership Council (and Gov. Janet Napolitano in attendance), Phoenix, AZ, May 4, 2004
- US Fish & Wildlife Southwest managers meeting, Tucson, AZ, December 9, 2004
- Sierra Club National Board members, LTRR talk and tour, February 23, 2007
- Pinaleno Mountains field trip, US Forest Service Rocky Mountain Station Director and deputy, September 28, 2009
- Prescott, AZ, public lecture on climate change with M. Hughes, October 29, 2009
- Workshop for environmental journalists and field trip to Sandia Mountains, Albuquerque, NM, November 14, 2009

INTRAMURAL SERVICE

University and College Committees and Service (since 2000):

- Graduate College representative at Oral PhD examinations, 1998-2001
- Library Council member, 1998-2000
- UA water research planning committee (chaired by Dean Eugene Sander). Sept. 2000
- Member search committee for the College of Science Director of Development, 2001
- Member of proposal committee for UA Cooperative Ecosystem Studies Unit, US Department of Interior, 2001
- Promotion and tenure reviews and comments for School of Renewable Natural Resources (two cases), 2000, 2001
- Promotion and tenure review and comments for Arid Land Studies, (one case), 2006
- Consultations with Steward Observatory and US Forest Service, on wildfire threats on Mt. Graham, and possible fuels treatments, 2003
- Planning committee for Environment & Natural Resources Building II, 2003-2006
- Member of Advisory Committee, Earth Surface Processes Research Institute (ESPRI, a UA and US Geological Survey initiative), 2003-2005
- Member of committee on 5-year performance review of College of Agriculture and Life Sciences Dean Eugene Sander, 2003-2004
- “Sense of Place” tours of Santa Catalina mountains with Galileo Circle Members and donors to College of Science, numerous tours since 2003
- Search committee for two Assist. Professor hires in School of Natural Resources, 2006

UA and College Presentations (since 1998):

- UA Honors Luncheon on Tree-Rings, Fire and El Niño, Jan. 29. 1998
- UA Faculty Community Lecture Series, on Tree Rings, March 6, 2001
- UA “Heads Up”, tour of the Tree-Ring Lab March 8, 2001
- After-dinner talk on tree rings to University of Arizona Alumni, (President Peter Likens in attendance), Flagstaff, AZ, August 16, 2002
- Association of Fire Ecologists, UA Student Chapter, November 20, 2002

- UA College of Sciences Galileo Circle, after dinner talk, Tucson, AZ, Nov. 21, 2002
- College of Science Advisory Board tour through the Tree-Ring Lab, 2004
- UA Honors Luncheon Forum, on “Wildfires and Climate Change”, October 3, 2007
- BioSphere 2 external advisory board, on climate change in the Southwest, Oracle, AZ, April, 15, 2008
- Environmental Law Breakfast, on fire sciences at UA, October 2, 2009
- College of Science Advisory Board, December 9, 2009
- Arizona 100 Centennial Gala, brief presentation on history of tree ring research, February 11, 2012

Laboratory of Tree-Ring Research Service (misc. selected, since 1996):

- Tree-Ring Talks organizer, Fall 1996
- 60th LTRR Anniversary committee chair, 1996
- LTRR Faculty annual report evaluation committee, 1998-1999
- Academic Program Review committee for LTRR, 1998-1999
- UA Capital Campaign kickoff, prepare LTRR materials for, 2000
- Interview for COS Newsletter article on the Tree-Ring Lab, May 25, 2000
- Academic Program Review committee chair, for LTRR, 2004-2005
- Provost Meredith Hay and other visitors, LTRR tour April 2, 2008
- Vice Pres. for External Relations Steve McCarthy and Paul Alvin, LTRR tour July, 2009

Major Accomplishments as Director of Laboratory of Tree-Ring Research:

(note: These positive developments at LTRR were the result of the combined efforts and contributions of many of my colleagues and other individuals, as well as my own efforts.)

- Successful recruiting and hiring of two Assist. Professors (Dr. Mike Evans and Dr. Paul Sheppard in 2001) and both subsequently promoted to Assoc. Professor with tenure.
- Acquisition and renovation of laboratory and archival space in Math East building, 2004
- Establishment of the Agnese & Emil Haury Endowed Chair in Archaeological Dendrochronology, in collaboration with Anthropology, via donor gifts (\$1.8 million endowment), 2005
- Chairing and assembling the Tree-Ring Lab’s Academic Program Review self study in 2006, and responding to external panel review comments.
- Chair of successful nomination committee of Dr. Malcolm Hughes for UA Regent’s Professor, 2007
- Establishment of the Agnese Haury Graduate Fellowship endowment in Anthropology and the Laboratory of Tree-Ring Research (\$500K endowment), 2007
- Acquisition of 8,000 square feet of additional space in the West Stadium, and \$3.2 million from the University for renovation of this space, 2007
- Received on behalf of LTRR and UA a \$9 million gift from Mrs. Agnese Haury for construction of a new tree-ring building. I managed the planning and development of this gift agreement, and subsequently the combining of it with the \$3.2 million from UA for the West Stadium renovation. The combined funds are now being used for constructing an entirely new tree-ring building, which is in design now, and to be completed by mid-2012.

- Planning of a successful gala celebration of the Lab's 70th anniversary, and celebration of Mrs. Agnese Haury's gifts to LTRR, November 2007
- Successful search and hiring of a Curator of Collections (Pearce Paul Creasman), 2009.
- Co-leadership with other College of Science department heads in creating the new School of Earth & Environmental Sciences
- Successful competition for a new faculty position under the Provost's Environmental Science hiring initiative. A new Assistant Professor successfully recruited in this position (Dr. Valerie Trouet), January, 2011.
- Successful search and hiring of a new Associate Professor in the Agnese & Emil Haury Endowed Chair in Archaeological Dendrochronology (Dr. Ron Towner), August 2011.
- Leadership in development of a "Center for Mediterranean Archaeology and the Environment" at UA, involving multiple departments and colleges, and related recruiting and hiring of 4 archaeological dendrochronologists from Cornell University.