

Patrick J. Bartlein

CONTACT INFORMATION

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PERSONAL DATA

Date of Birth: October 21, 1950, (Milwaukee, WI); Married (Patricia F. McDowell); Citizenship: U.S.A.

EDUCATION

Univ. Wisconsin -- Madison, (Geography) B.A. June 1972; M.S. June 1975; Ph.D. August 1978

RESEARCH INTERESTS

Paleoclimatology; Data Analysis and Visualization; Environmental Modeling

TEACHING INTERESTS

Climatology; Environmental Change; Data Analysis and Visualization in Geography

EMPLOYMENT HISTORY

University of Oregon, Department of Geography: Professor (Sept. 1994 - present), Associate Professor (April 1986 - Sept. 1994), Assistant Professor (Sept. 1982 - April 1986). Climatology, environmental change, data analysis and visualization in geography.

Brown University, Department of Geological Sciences: Research Associate and Visiting Assistant Professor (Research) (May 1981 - Aug. 1984). Reconstruction of paleoclimatic variations in eastern North America.

Boston University, Department of Geography: Assistant Professor (Sept. 1979 - Aug. 1982). Introductory climatology, physical climatology, mathematical models for environmental assessment; Center for Energy and Environmental Studies: Research Associate (Sept. 1980 - Aug. 1982). Statistical consulting and program development.

University of Iowa, Department of Geography: Visiting Assistant Professor (Jan. 1979 - May 1979). Introduction to weather and climate, geographical analysis.

University of Wisconsin -- Madison, Institute for Environmental Studies: Research Associate (post-doc) (Sept. 1978 - Aug. 1979). Further studies of the effects of climatic variations on the water supplies and levels of the Great Lakes; Department of Geography: Teaching Assistant (Sept. 1973 - Dec. 1974). Laboratory instructor in physical geography;

PUBLICATIONS

Cook, E.R., P.J. Bartlein, N.S. Diffenbaugh, R. Seager, B.N. Shuman, R.S. Webb and J.W. Williams, in review, Hydrological variability and change, in P.U. Clark, A.J. Weaver, E.J. Brook, E.R. Cook and T. Delworth, eds., *Abrupt Climate Change*, U.S. Climate Change Research Program, Synthesis and Assessment Product 3.4.

Shuman, B., J.W. Williams, N.S. Diffenbaugh, M. Ashfaq and P.J. Bartlein, in review, The effects of insolation and soil-moisture behavior on moisture patterns and variability in the central United States during the mid-Holocene. *Quaternary Science Reviews*.

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Gavin, D.G., D.J. Hallett, F.S. Hu, K.P. Lertzman, S.J. Prichard, K.J. Brown, J.A. Lynch, P.J. Bartlein and D.L. Peterson, 2007, Forest fire and climate change in western North America: insights from sediment charcoal records, *Frontiers in Ecology and the Environment* 5(12):499-506.

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Williams, J.W., Shuman, B., Bartlein, P.J., Whitmore, J., Gajewski, K. Sawada, M., Minckley, T., Shafer, S., Viau, A.E., Webb, T. III, Anderson, P. Brubaker, L., Whitlock, C. Davis, O., 2006, An Atlas of Pollen-Vegetation-Climate Relationships for the United States and Canada, American Association of Stratigraphic Palynologists *Contributions Series* 43, 300p.

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Shinker, J.J., P.J. Bartlein, and B. Shuman, 2006, Synoptic and dynamic climate controls of North American mid-continental aridity. *Quaternary Science Reviews* 25:1401-1417.

Power, M.J., Whitlock, C., Bartlein, P.J., and L. Stevens, 2006, Fire and vegetation history during the last 3800 years in northwestern Montana. *Geomorphology* 75:420-436

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Minckley, T.A., P.J. Bartlein, and J.J. Shinker, 2004. Paleocological response to climate change in the Great Basin since the last glacial maximum. In D.L. Jenkins, T.J. Connolly, and C.M. Aikens (Eds.) Early and middle Holocene Archaeology of the Northern Great Basin, pp. 21-30. University of Oregon Anthropological Papers 62. Eugene.

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Bigelow, N.H., L.B. Brubaker, M.E. Edwards, S.P. Harrison, I.C. Prentice, P.M. Anderson, A.A. Andreev, P.J. Bartlein, T.R. Christensen, W. Cramer, J.O. Kaplan, A.V. Lozhkin, N.V. Matveyeva, D.F. Murry, A.D. McGuire, V.Y. Razzhivin, J.C. Ritchie, B. Smith, D.A. Walker, K. Gajewski, V. Wolf, B. Holmqvist, Y. Igarashi, K. Kremenetskii, A. Paus, M.F.J. Pisaric and V. S. Volkova, 2003, Climate change and Arctic ecosystems I. Vegetation changes north of 55°N between the last glacial maximum, mid-Holocene and present, *J. Geophysical Research* 108(19): 11-1 to 11-25, doi:10.1029/2002JD002558, 2003

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Whitlock, C., P.J. Bartlein, J. Marlon, A. Brunelle and C. Long (2003). Holocene fire reconstructions from the northwestern U.S.: an examination at multiple time scales, 5th Symposium on Fire and Forest Meteorology. American Meteorological Society, pp. 4C.1-1 - 4C.1-5.

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Diffenbaugh, N.S., L.C. Sloan, M.A. Snyder, J.L. Bell, J. Kaplan, S.L. Shafer and P.J. Bartlein, 2003, Vegetation sensitivity to global anthropogenic carbon dioxide emissions in a topographically complex region. *Global Biogeochemical Cycles* 17(2) 1067, doi:10.1029/2002GB001974, 2003

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Shafer, S.L., P.J. Bartlein, and R.S. Thompson, 2001, Potential changes in the distributions of Western North America tree and shrub taxa under future climate scenarios. *Ecosystems* 4:200-215.

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Wright, H.E. Jr., J.E. Kutzbach, T. Webb III, W.F. Ruddiman, F.A. Street-Perrott and P.J. Bartlein, eds., 1993, *Global Climates Since the Last Glacial Maximum*, Minneapolis, University of Minnesota Press, 569 p.

Webb, T. III, P.J. Bartlein, S.P. Harrison and K.H. Anderson, 1993, Vegetation, lake-levels and climate in Eastern North America, Ch. 17 in *Global Climates Since the Last Glacial Maximum* (H.E. Wright, Jr and others, eds.), Minneapolis, University of Minnesota Press, pp. 415-467.

Thompson, R.S., C. Whitlock, S.P. Harrison, W.G. Spaulding and P.J. Bartlein, 1993, Vegetation, lake-levels and climate in the Western United States, Ch. 18 in *Global Climates Since the Last Glacial Maximum* (H.E. Wright, Jr and others, eds.), Minneapolis, University of Minnesota Press, pp. 468-513.

Webb, T., III, J.E. Kutzbach, W.F. Ruddiman, F.A. Street-Perrott, V. Markgraf, P.J. Bartlein, H.E. Wright, Jr. and W.L. Prell, 1993, Climatic changes during the past 18,000 years: regional syntheses, mechanisms, and causes, Ch. 19 in *Global Climates Since the Last Glacial Maximum* (H.E. Wright, Jr and others, eds.), Minneapolis, University of Minnesota Press, pp. 514-535.

Kutzbach, J.E., P.J. Bartlein, I.C. Prentice, W.F. Ruddiman, F.A. Street-Perrott, T. Webb III and H.E. Wright, Jr., 1993, Epilogue, Ch. 20 in *Global Climates Since the Last Glacial Maximum* (H.E. Wright, Jr. and others, eds.), Minneapolis, University of Minnesota Press, 536-542.

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- Harrison, S.P., I.C. Prentice and P.J. Bartlein, 1991, What climate models can tell us about the Holocene palaeoclimates of Europe, in B. Frenzel, ed., *Evaluation of Climate Proxy Data in Relation to the European Holocene*, *Paläoklimaforschung: Bd. 6*, Jena, Stuttgart, pp. 285-299.
- Bartlein, P.J., P.M. Anderson, M.E. Edwards and P.F. McDowell, 1991, A framework for interpreting paleoclimatic variations in eastern Beringia, *Quaternary International* 10-12:73-83
- Prentice, I.C., P.J. Bartlein and T. Webb III, 1991, Vegetation and climate change in eastern North America since the last glacial maximum. *Ecology* 72:2038-2056.
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- McDowell, P.F., T. Webb III and P.J. Bartlein, 1991, Long-term environmental change, in *Earth as Transformed by Human Action* (B.L. Turner II and others, eds.), Cambridge University Press.
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- Hostetler, S.W. and P.J. Bartlein, 1990, Simulation of lake evaporation using an energy balance-eddy diffusion model of lake temperature and hydroclimate: application to modelling lake-level variations at Harney-Malheur Lake, Oregon, *Water Resources Research* 26:2603-2612.
- Anderson, P.M., P.J. Bartlein, L.B. Brubaker, K. Gajewski and J.C. Ritchie, 1989, Modern analogues of Late-Quaternary pollen spectra from the western interior of North America, *J. Biogeography* 16:573-596.
- Huntley, B., P.J. Bartlein and I.C. Prentice, 1989, Climatic control of the distribution and abundance of beech (*Fagus*) in Europe and North America, *J. Biogeography* 16:551-560.
- Bartlein, P.J. and I.C. Prentice, 1989, Orbital variations, climate and paleoecology, *Trends in Ecology and Evolution* 4:195-199.
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- Overpeck, J.T. and P.J. Bartlein, 1988, Assessing the response of vegetation to future climate change: ecological response surfaces and paleoecological model validation, in *The Potential Effects of Global Climate Change on the United States* (J.B. Smith and D.A. Tirpak, eds.), Office of Policy, Planning, and Evaluation, U.S. Environmental Protection Agency, Appendix D, pp. 1-1 - 1-32.
- Webb, T. III and P.J. Bartlein, 1988, Late Quaternary climatic change in eastern North America: the role of modeling experiments and empirical studies, in *Late Pleistocene and Early Holocene Paleoecology and*

Archaeology of the Eastern Great Lakes Region (Laub, R.S., N.G. Miller and D.W. Steadman, eds.), Bulletin of the Buffalo Society of Natural Sciences 33:3-13.

Bartlein, P.J., 1988, Late-Tertiary and Quaternary climatic changes, in *Vegetation History*, (B. Huntley and T. Webb III, eds.), Handbook of Vegetation Science, v. 7: Amsterdam, Kluwer Academic Publishers, pp. 113-152.

Webb, T. III, P.J. Bartlein and J.E. Kutzbach, 1987, Climatic change in eastern North America during the past 18,000 years; Comparisons of pollen data with model results, in *North America and Adjacent Oceans during the Last Deglaciation*, (W.F. Ruddiman and H.E. Wright, Jr., eds.), Geology of North America v. K-3: Boulder, Geological Society of America, pp. 447-462.

Barnosky, C.W., P.M. Anderson and P.J. Bartlein, 1987, The northwestern U.S. during deglaciation; Vegetational history and paleoclimatic implications, in *North America and Adjacent Oceans during the Last Deglaciation*, (W.F. Ruddiman and H.E. Wright, Jr., eds.), Geology of North America v. K-3: Boulder, Geological Society of America, pp. 289-321.

Bartlein, P.J., I.C. Prentice, and T. Webb III, 1986, Climatic response surfaces from pollen data for some eastern North American taxa, *J. Biogeography*, 13:35-57.

Bartlein, P.J. and T. Webb III, 1985, Mean July temperature at 6000 yr B.P. in eastern North America: regression equations for estimates from fossil-pollen data, *Syllogeus*, 55:301-342, (Climate Change in Canada 5).

Bartlein, P.J., T. Webb III, and E.C. Fleri, 1984, Holocene climatic change in the northern Midwest: pollen-derived estimates, *Quaternary Research*, 22:361-374.

Bartlein, P.J. and T. Webb III, 1982, Holocene climatic changes estimated from pollen data for the northern Midwest, in *Quaternary History of the Driftless Area*, (J.C. Knox, L. Clayton, and D.M. Mickelson, eds.), Wisconsin Geological and Natural History Survey, Madison, pp. 67-81.

Bartlein, P.J., 1982, Streamflow anomaly patterns in the U.S.A. and southern Canada -- 1951-1970, *J. Hydrology* 56:49-63.

Bartlein, P.J., 1978, The influence of short-period climatic variations on streamflow in the United States and southern Canada, 1951-1970, Ph.D. dissertation, Department of Geography, University of Wisconsin-Madison, 276 p.

Knox, J.C., P.J. Bartlein, K.K. Hirschboeck and R.J. Muckenhirn, 1975, The response of floods and sediment yields to climatic variation and land use in the Upper Mississippi Valley, Institute for Environmental Studies, University of Wisconsin-Madison, Report 52, 76 p.

Knox, J.C., P.J. Bartlein and W.C. Johnson, 1974, Environmental assessment of sediment sources and sedimentation distribution for the Lake LaFarge watershed and impoundment, Institute for Environmental Studies, University of Wisconsin-Madison, Report 28, pp. 77-116.

INVITED LECTURES AND SELECTED CONFERENCE PAPERS

"Abrupt climate change in a warming world: lessons from Holocene droughts," Dickey Center for International Understanding Lecture Series on Social Dimensions of Global Environmental Change (invited), May 2007.

"Applicability of Oscillatory Climate-Mode Indices for the Diagnosis and Prognosis of Interannual and Longer Time Scale Climate Variability of the Northeastern Pacific and Western North America", American Geophysical Union Fall Meeting, San Francisco, December 2006.

"Temporal and Spatial Structure in the Climatic Controls of Wildfire in the Western United States" P.J. Bartlein and S.W. Hostetler, invited presentation, 3rd International Fire Ecology & Management Congress, San Diego, November 2006.

"Climate and fire in the western United States," Trewartha lecture (invited), Department of Geography, University of Wisconsin, April 2006.

“A hierarchical view of the climatic controls of wildfire in the western United States,” invited lecture, Department of Geography, University of Minnesota, April 2005.

“Using the Paleorecord to Evaluate Climate-Model Performance in Projecting Changes in Climate Variability,” P.J. Bartlein, invited presentation, American Geophysical Union Fall Meeting, San Francisco, December 2004.

“Using Model Simulations to Improve Interpretations of Paleoclimate Variability and Estimates of Potential Future Droughts,” S.L. Shafer and P.J. Bartlein, American Geophysical Union Fall Meeting, San Francisco, December 2004.

“Hierarchical controls of fire weather and fire climate in the western United States,” P.J. Bartlein, S.W. Hostetler, S.L. Shafer, J.O. Holman, and A.M. Solomon, American Geophysical Union Fall Meeting, San Francisco, December 2004.

“Broad-scale climatic controls on fire regimes in the western United States -- today and during the Holocene,” P.J. Bartlein, C. Whitlock, and S. Hostetler, invited presentation, Ecological Society of America, Annual Meeting, August 2004.

“Development of Modern Analogue and Mutual Overlap Techniques for Paleoclimatic Reconstructions and Model Validation from Plant Macrofossil Assemblages in North America,” R.S. Thompson, K.H. Anderson, L.E. Strickland, P.J. Bartlein, S.L. Shafer, American Geophysical Union Fall Meeting, San Francisco, December 2003.

“Assessment of Modern Climate Baselines for Paleoclimatic Reconstructions and Model Testing in North America,” S.L. Shafer, P.J. Bartlein, K.H. Anderson, R.S. Thompson, American Geophysical Union Fall Meeting, San Francisco, December 2003.

“Disturbance Frequency Changes in Western North and South America During the Holocene,” C. Whitlock, P. Bartlein, M.M. Bianchi, C. Briles, A. Brunelle, C. Long, V. Markgraf, J. Marlon, C. Meeker, M. Power, M. Walsh, American Geophysical Union Fall Meeting, San Francisco, December 2003.

“Holocene fire reconstructions from the northwestern U.S.: an examination at multiple time scales” C. Whitlock, P.J. Bartlein, J. Marlon, A. Brunelle and C. Long, 5th Symposium on Fire and Forest Meteorology, and 2nd International Wildland Fire Ecology and Fire Management Congress, American Meteorological Society, Orlando FL, November 2003.

“Using a regional climate model to diagnose climatological and meteorological controls of wildfire in the western United States,” S.W. Hostetler, P.J. Bartlein, J.O. Holman, A.M. Solomon and S.L. Shafer, 5th Symposium on Fire and Forest Meteorology, and 2nd International Wildland Fire Ecology and Fire Management Congress, American Meteorological Society, Orlando FL, November 2003.

“The seasonal cycle of wildfire and climate in the western United States” P.J. Bartlein, S.W. Hostetler, S.L. Shafer, J.O. Holman, and A.M. Solomon, 5th Symposium on Fire and Forest Meteorology, and 2nd International Wildland Fire Ecology and Fire Management Congress, American Meteorological Society, Orlando FL, November 2003.

“Comparisons of paleoenvironmental observations and paleoclimatic simulations: principal results and strategies for the next iteration” P.J. Bartlein and S.P. Harrison, Invited presentation, XVI International Quaternary Association Congress, Reno NV, July 2003

“Examining the Pacific airmass model of Holocene Aridity in the Mid-Continent of North America” J.J. Shinker, B.N. Shuman and P.J. Bartlein, American Geophysical Union Fall Meeting, San Francisco, December 2002.

“Hydrologic and vegetation changes in the northwestern U.S. and their role in shaping past and future fire regimes” C. Whitlock, P.J. Bartlein and S.L. Shafer, American Geophysical Union Fall Meeting, San Francisco, December 2002.

“Spatial Relationships Between Patterns of Woody-Plant Taxonomic Richness and Environmental and Bioclimatic Variables in North America” Robert S. Thompson, Sarah L. Shafer, Katherine H. Anderson, Patrick J. Bartlein, American Geophysical Union Fall Meeting, San Francisco, December 2001

"North American mid-continental aridity: atmospheric circulation, moisture flux, and surface water- and energy-balance controls" Peter V. Killoran, J.J. Shinker, and P.J. Bartlein, American Geophysical Union Fall Meeting, San Francisco, December 2000.

"Arctic Land-Atmosphere Interactions Since the Last Glacial Maximum: Perspectives from Models of Climate, Vegetation, Ice Sheets, and Continental Hydrology, and from Paleoenvironmental Data Syntheses." Invited presentation, American Geophysical Union Fall Meeting, San Francisco, December 2000.

"The Westerlies." Invited presentation, InterPEP Linkages workshop, PAGES International Project Office, Bern, Switzerland, September 1999.

"The northern continental interiors during the Holocene: pattern, timing and possible mechanisms of dry phases." Invited lecture, European Science Foundation, European Research Conference, Albufiera, Portugal, May 1999.

"The role of vegetation in paleoclimatic variations." Invited lecture, Earth Sciences Dept., University of California, Santa Cruz, May 1999.

"Controls and effects of orbital-timescale paleoclimatic variations." Invited presentation, *Mechanisms of Millennial-Scale Global Climatic Changes*, American Geophysical Union Chapman Conference, June 1998.

"Characteristic features of climatic variations on timescales from 10^1 to 10^7 years." Invited lecture, Ecological Society of America Annual Meeting, August 1997.

"Forward and inverse modeling approaches for data-model comparisons," Invited lecture, European Science Foundation, European Research Conference, Il Ciocco, Italy, May 1997.

"Climate-simulations of the glacial-interglacial transition. Invited lecture, Quaternary Research Center, University of Washington, Seattle, March 1997.

"Applications of paleoclimatic simulations and data syntheses to understanding the climate system." oral presentation, First GAIM Science Conference, Garmisch-Partenkirchen, Germany, Sept. 1995.

"Past environmental changes: characteristic features of Quaternary climate variations." invited paper, NATO Past and Future Rapid Environmental Changes: The Spatial and Evolutionary Responses of Terrestrial Biota, Crieff, Scotland, June 1995.

"Application of lake status data in testing palaeoclimatic hypotheses." invited paper, ESF/EPC Workshop on Paleohydrology as reflected in lake-level changes as climatic evidence for Holocene times, Hörby, Sweden, May 1995.

"Past and potential future vegetation responses to climatic variations in the western United States," and "The spectrum of climatic variations and its ecological and evolutionary implications." invited lectures, Univ. Minnesota, April 1993.

"Forward- and inverse-modeling approaches to paleodata interpretation," invited presentation, NATO Advanced Research Workshop, Aussois, France, October 1993.

"The forward-modeling approach in paleoclimatic analysis: middle-Pliocene vegetation distributions in North America," invited presentation, U.S. Geological Survey, Pliocene Research, Interpretation and Synoptic Mapping (PRISM) Project Workshop, Reston, Virginia, May 1993.

"What past climates can tell us about the future," and "A framework for paleoclimatic variations in Beringia," invited lectures, Alaska Quaternary Center and Global Change Institute, University of Alaska, Fairbanks, October 1992.

"Biotic responses to climatic changes during the Quaternary," and "Validation of climate simulation models using paleoecological data," invited lectures, University of Arizona, Tucson, April 1992.

"Large-scale controls of paleoclimatic variations in northwestern North America," invited symposium lecture, Quaternary Research Center, Seattle, May 1992.

"Analysis of the patterns of Holocene climatic change in the Northern Rocky Mountains," C. Whitlock and P.J. Bartlein, 1991 Annual Meeting, Geological Society of America, San Diego, October 1991.

"Environmental controls of playa status and processes, Western U.S.," P.F. McDowell, P.J. Bartlein and S.P. Harrison, 1991 Annual Meeting, Geological Society of America, San Diego, October 1991.

"Large-scale controls of the seasonal variations of temperature, precipitation and effective moisture in the Western United States," P.J. Bartlein and C. Whitlock, invited paper presented at the 1991 Annual Meeting, Geological Society of America, San Diego, October 1991.

"Modern vegetation/climate relationships, changes in plant distributions and paleoclimatic estimates in the western United States," R.S. Thompson and P.J. Bartlein, invited paper presented at the 76th Annual Meeting, Ecological Society of America, San Antonio, August 1991

"Paleoclimatic simulations and the interpretation of Quaternary records," invited lecture, Department of Quaternary Geology, Lund University, May 1991.

"Climatic variability on all time scales" and "What paleoclimatic models can tell us about Quaternary climatic variations," invited lectures, Department of Physical Geography, Uppsala University, May 1991.

"Climatic assessment of the last deglaciation in the Pacific Northwest as inferred from paleobotanical data," C. Whitlock, R.S. Thompson and P.J. Bartlein, 1990 Annual Meeting, Geological Society of America, Dallas, October 1990.

"Reconciliation of paleoclimatic simulations and the paleoecological and geological record," presented at the 43rd Annual Meeting of the Rocky Mountain Section of the Geological Society of America, Jackson, Wyoming, May 1990.

"Paleoecological contributions to climatological research," presented at the 1990 Annual Meeting of the Association of American Geographers, Toronto, April 1990.

Rapporteur, Second Global Change Institute, Snowmass, Colorado, July 1989.

"Large-scale controls of late-Quaternary climatic variations in the Pacific Northwest," invited paper presented at a symposium in honor of Henry P. Hansen, Quaternary Research Center, University of Washington, Seattle, May 1989.

"Paleoclimatic responses to changing ice-sheet size, sea-ice extent, sea-surface temperature and insolation," invited paper presented at the Tenth Biennial Conference, American Quaternary Association (AMQUA), Amherst, June 1988.

"Paleoclimatic implications of regional patterns in the late-glacial vegetation of the northwestern U.S.," C.W. Barnosky and P.J. Bartlein, Geological Society of America, Rocky Mountain Section Meetings, Sun Valley, May 1988.

"Paleoclimatic simulations for the past 18,000 years: The role of boundary condition changes in determining regional climatic chronologies," invited paper presented at IGCP 158: Palaeohydrological Changes in the Temperate Zone in the Last 15000 Years, Symposium, Lund, Sweden, May 1987.

"Climatic response surfaces for dynamic plant geography," P.J. Bartlein and I.C. Prentice, invited paper presented at the Ecological Society of America Symposium, "Vegetation Response to Temporal Climatic Change", Minneapolis, June 1985.

"Warm Holocene climates: analogs for the future?" invited lecture, Quaternary Research Center, University of Washington, May 1985.

"Time series analysis of a 1000-year high-resolution pollen record from north-central Wisconsin," J.T. Overpeck and P.J. Bartlein, VIth International Palynological Conference, Calgary, August 1984.

"Climatic response surfaces for some eastern North American pollen types," P.J. Bartlein, I.C. Prentice and T. Webb III, presented at the Eighth Biennial Conference American Quaternary Association (AMQUA), Boulder, August 1984.

"Predictable components of climatological data sets," presented at the 1984 Annual Meeting of the Association of American Geographers, Washington D.C., April 1984.

"Holocene climatic change in the Midwest United States: temperature and precipitation maps," presented at the Second Conference on Climatic Variations of the American Meteorological Society, New Orleans, January 1983.

"Holocene precipitation variations in the midwestern United States," P.J. Bartlein and T. Webb III, presented at the Seventh Biennial Conference American Quaternary Association (AMQUA), Seattle, June 1982.

"Extent and duration of the mid-Holocene drought in the midwestern United States," P.J. Bartlein and T. Webb III, presented at the 1982 Annual Meeting of the Association of American Geographers, San Antonio, April 1982.

"Holocene patterns of moisture stress and airmasses in eastern North America," P.J. Bartlein and E.C. Fleri, Symposium on Variations in the Global Water Budget, Oxford, U.K., August 1981.

"Characterization of causality and feedback between climatic time series," presented at the First Conference on Climatic Variations, American Meteorological Society, San Diego, January 1981.

"Climatic anomalies and streamflow," invited paper presented at the 1980 Climate Symposium, Department of Geography, Louisiana State University, March 1980.

"Water years 1973 and 1977--Examples of the dependence of water supplies on short-period climatic variations," presented at the annual meeting of the Association of American Geographers, New Orleans, April 1978.

"Short period climatic variations and Lake Superior net basin supplies," presented at the 20th Conference of Great Lakes Research, Ann Arbor, May 1977.

"The influence of large-scale atmospheric circulation on Lake Superior levels and supplies," presented at the 1977 Annual Meeting of the Association of American Geographers, Salt Lake City, April 1977.

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science
 American Geophysical Union
 American Meteorological Society
 American Quaternary Association
 Association of American Geographers
 Geological Society of America

MANUSCRIPT REVIEWS

Annals, Association of American Geographers, Ecology, Geographie Physique et Quaternaire, Geological Society of America Bulletin, Geology, Global Change Biology, The Holocene, J. Biogeography, J. Geophysical Research, J. Vegetation Science, Nature, Professional Geographer, Quaternary Research, Quaternary Science Reviews, Reviews of Geophysics, Science, Water Resources Bulletin.

EDITORIAL BOARDS

Current: *Quaternary Research* (Associate Editor);
 Past: *Quaternary Science Reviews, The Holocene* (Associate Editor); *Annals, Association of American Geographers, Geology*

PROPOSAL REVIEWS

National Science Foundation: Climate Dynamics Program, Division of Polar Programs, Ecology Program, Geography and Regional Science Program, Division of Earth Sciences, Instrumentation and Facilities, Continental

Hydrologic Processes, Earth-System History Program, Arctic System Science, Paleoclimatology Program. NOAA: Office of Global Programs. European Science Foundation.

EXTERNAL REVIEWS OF PROMOTION-AND-TENURE CASES

2001 (1), 2002 (2), 2003 (1), 2004 (2), 2005 (2), 2006 (4), 2007 (4), 2008 (3)

OTHER PROFESSIONAL SERVICE

National Science Foundation, Earth-System History Program, Review Panel Member (2005)

National Science Foundation, Earth-System History Program, Paleoclimatology of the Arctic (PARCS) Steering Committee Member (1997-2000)

National Oceanic and Atmospheric Administration, Review Panel Member, Paleoclimatology Program, 1996-1997

National Science Foundation, Review Panel Member, Geography and Regional Science Program, 1994-95

Organizing Committee, NATO Advanced Research Workshop, "Strategies for the Use of Paleoclimate Data Sets in Climate Model Intercomparison and Evaluation," 1993.

Scientific Program Co-Chair, American Quaternary Association, 1994 Biennial Meeting

National Science Foundation, Paleoclimatology of Arctic Lakes and Estuaries, Steering Committee Member

American Quaternary Association, Council Member, 1991-92

Program Committee, Association of American Geographers, 1986 Annual Meeting

PARTICIPATION IN INTERNATIONAL COLLABORATIVE RESEARCH PROGRAMS

COHMAP -- Cooperative Holocene Mapping Project (NSF)

PMIP -- Paleoclimate Modelling Intercomparison Project (NATO, NOAA, IGBP-PAGES)

TEMPO -- Testing Earth-system Models using Paleoenvironmental Observations (NSF)

LIGA -- Last Interglacial in the Arctic (NATO)

Biome 6000 -- Paleovegetation Mapping (IGBP)

OTHER

IPCC Third Assessment Report, Expert Reviewer, Ch. 2, 3, 8 and 10.

U.S. National Assessment, *Climate Change Impacts on the United States*, member, forest sector assessment team.

COURSES TAUGHT AT THE UNIVERSITY OF OREGON

1982-83 101 (S)

1983-84 101 (F), 507 (S)

1984-85 302 (S)

1985-86 507 (W)

1986-87 314 (W)

1987-88 101 (W), 302 (S), 314 (S)

1988-89 302 (F), 410 (W), 507 (W)

1989-90 302 (F), 410 (S), 314 (S)

1990-91 101 (F), 321 (F), 507 (F), 314 (W), 607 (W)

1991-92 414 (W), 425 (W), 426 (W), 607 (W)

1992-93 314 (F), 425 (F), 426 (F), 410 (S)

1993-94 314 (F), 410 (F), 414 (S), 425 (S), 426 (S)

1994-95 sabbatical leave

1995-96 102(W), 425(W), 414(S), 607(S)

1996-97 101(F), 425(F), 314 (S), 432(S)

1997-98 101(F)*, 430(F)*, 607(F)*, 425(F), 102(W), 414(W)

1998-99 321(F), 607(F), 102(W), 314(W)

1999-2000 321(F), 514(F), 102(W), 421(W)

2000-2001 321(F), 314(F), 143(S)*, 432(S), 607(S)

2001-2002 321(F), 514(F), 143(S)*, 421(S)

2002-2003 sabbatical leave

2003-2004 321(F), 514(F), 421(S), 607(S)

2004-2005 321(F), 432(F), 430(S), 414(S)

2005-2006 321(F), 607(F), 414(S), 421(S)
2006-2007 321(F), 432(F), 414(S), 143(S)
2007-2008 321(F), 432(F), 607(F), 143(S), 414(S)
plus 631 most quarters
* = co-taught course

101: Geog. 101 The Natural Environment (typical enrollment 200+)
102: Geog. 102 Global Environmental Change
143: Geog. 143 Global Environmental Change
321 (302): Geog. 321 (302) Climatology (150+)
314: Geog. 314 Geographical Data Analysis (24)
410: Geog. 410/510 Quaternary Environments (20), Physical Climatology (20),
Global Change (24), Paleoclimatology (18)
414: Geog. 414/514 Advanced Geographical Data Analysis (10)
421: Geog. 421/521 Advanced Climatology (topic changes)
425: Geog. 425/525 Hydrology and Water Resources (40)
426: Geog. 426/526 Hydrologic Analysis (15)
430: Geog. 430 Long-term Environmental Change (30)
432: Geog. 432/532 Climatological Aspects of Global Change (25)
607: Geog. 607 Seminars in Climatology, Quaternary Studies, and Global Change (15)
608: Geog. 608 Thesis Writer's Seminar (15)
631: Geog. 631 Progress in Physical Geography

GRADUATE AND POST-GRADUATE STUDENT TRAINING

Post-doctoral advisor:

Shuman, B. Integrating Late-Quaternary lake-level Records with fossil -pollen data to document millennial-scale variations in North American climates. NOAA Postdoctoral Program in Climate and Global Change, August 2001-July 2003.

Advisor: (9 Ph.D., 7 Masters)

In progress: J. Marlon (Ph.D.)

Tang, G., 2008, An examination of vegetation modeling-related issues and the variation and climate sensitivity of vegetation and hydrology in China, Ph.D. Dissertation, University of Oregon, Department of Geography, 156 p.

Light, A. 2004, Reflexive design and design patterns for GIS and Cartography. Ph.D. Dissertation, University of Oregon, Department of Geography, 97p.

Holman, J.O., 2004, Quantitative comparison of categorical maps with applications for the analysis of global environmental data. Ph.D. Dissertation, University of Oregon, Department of Geography, 107p.

Shinker, J.J., 2003. Mechanistic controls of North American climate variability. Ph.D. Dissertation, University of Oregon, Department of Geography, 152 p.

Shafer, S.L., 2000. Potential vegetation response to future climate change in western North America and its implications for biological conservation and geographical conceptualizations of place. Ph.D. Dissertation, University of Oregon, Department of Geography, 150 p.

Killoran, P.V., 2000. Controls of surface temperature and precipitation patterns associated with the Asian summer monsoon. M.S. Thesis, University of Oregon, Department of Geography, 54 p.

Shinker, J.J., 1999. Development and persistence of North American mid-continental moisture anomalies. M.A. Thesis, University of Oregon, Department of Geography, 68 p.

Holman, J., 1996. Spatial interpolation of categorical data : an application for mapping global vegetation data. M.S. Thesis, University of Oregon, Department of Geography, 47 p.

Mock, C.J., 1994. Modern climate analogues of late-Quaternary paleoclimates for the Western United States. Ph.D. Dissertation, University of Oregon, Department of Geography, 286 p.

Shafer, S.L., 1993. The hydrologic response to landuse change in a small watershed in western Oregon. M.S. Thesis, University of Oregon, Department of Geography, 106 p.

Gottfried, C.E., 1992. Residential wood heating and urban air quality : evaluation of a voluntary wood-heating curtailment program. M.A. Thesis, University of Oregon, Department of Geography, 83 p.

McDowell, J.S. 1990. Monsoonal influences on vegetation distribution. Terminal Project -- University of Oregon, Interdisciplinary Studies Program, 1990. 56 p.

Lipsitz, B.B., 1988. Climatic estimates for locations between weather stations in the Pacific Northwest : comparison and application of two linear regression analysis methods. M.A. Thesis, University of Oregon, Department of Geography, 68 p.

Hostetler, S.W., 1987. Simulation of lake evaporation with an energy balance-eddy diffusion model of lake temperature : model development and validation, and application to lake-level variations at Harney-Malheur Lake, Oregon. Ph.D. Dissertation, University of Oregon, Department of Geography, 162 p.

Second Reader or Committee Member: (19 Ph.D.; 31 Masters)

In progress: M. Walsh (Ph.D.), , M. Hughes (Ph.D.), M. Kelly (MA)

Briles, C.E., 2008, Vegetation and fire history of the biologically diverse Klamath Mountains, northern California, USA. Ph.D. Dissertation, University of Oregon, Department of Geography, (co-advisor)

Power, M. 2006. Recent and Holocene fire, climate and vegetation linkages in the northern Rocky Mountains, USA. Ph.D. Dissertation, University of Oregon, Department of Geography, 244 p. (co-advisor).

Day, J.W. 2005. Historical savanna structure and succession at Jim's Creek, Willamette National Forest, M.A. Thesis, University of Oregon, Department of Geography, 55p.

Kohler, N.P., 2005, Protected areas and landscape change in mainland southeast Asia. Ph.D. Dissertation, University of Oregon, Department of Geography, 129 p.

Rubenstein, V., 2005, Interpretation of charcoal accumulation rates in a sediment core from Carp Lake, Washington. M.A. Thesis, University of Oregon, Department of Geography,

Seralles, R.J., 2004, Landscape, electricity, and policy: an integrated geographic approach to renewable energy. Ph.D. Dissertation, University of Oregon, Department of Geography

Bandow, J.R., 2003. Holocene alluvial history of the Middle Fork John Day River, Oregon. M.A. Thesis, University of Oregon, Department of Geography. 106 p.

Minckley, T.A., 2003. Holocene environmental history of the northwestern Great Basin and the analysis of modern pollen analogues in western North America. Ph.D. Dissertation, University of Oregon, Department of Geography, 310 p.

Marlon, J., 2003. A meta-analysis of charcoal-based fire history records from the northwestern United States. M.S. Thesis, University of Oregon, Department of Geography.

Long, C.J., 2003. Holocene fire and vegetation history of the Oregon Coast Range, USA, Ph.D. Dissertation, University of Oregon, Department of Geography, 270 p.

Green, J.K., 2003, Influence of debris flow deposits on small stream channel morphology in the Oregon Coast Range. M.S. Thesis, University of Oregon, Department of Geography.

Dalldorf, G.K., 2003. Influences of wind direction, topography and Paleolake history on the formation of Aeolian deposits in the Connley Hills, Fort Rock Basin, Lake County, Oregon. M.A. Thesis, University of Oregon, Department of Geography, 122 p.

Briles, C.E., 2003. Postglacial vegetation and fire history near Bolan Lake in the northern Siskiyou Mountains of Oregon. M.S. Thesis, University of Oregon, Department of Geography, 149 p.

Fouty, S.C., 2003. Current and historic stream channel response to changes in cattle and elk grazing pressure and beaver activity. Ph.D. Dissertation, University of Oregon, Department of Geography, 646p.

Brunelle-Daines, A. 2002. Holocene changes in fire, climate and vegetation in the Northern Rocky Mountains of Idaho and western Montana. Ph.D. Dissertation, University of Oregon, Department of Geography, 178 p.

Peters, J.N., 2001. Spatial variability and controls of bank instability in a semi-arid drainage basin in Southeastern Utah. M.A. Thesis, University of Oregon, Department of Geography, 114 p.

Henderson, A., 2000. The monsters that lurk in a world without apparitions. Terminal Project, University of Oregon, Interdisciplinary Studies Program (English, Folklore, Geography), 71 p.

Berkley, E.L., 2000. Temporal and spatial variability of fire occurrence in Western Oregon, A.D. 1200 to present. M.S. Thesis, University of Oregon, Department of Geography, 110 p.

Grigg, L.D., 2000. Millennial-scale vegetation and climate variations in the Pacific Northwest during the last glacial period (60,000-16,000 cal yr B.P.). Ph.D. Dissertation, University of Oregon, Department of Geography, 250 p.

Taylor, C.H., 2000. Evaluation of stream habitat enhancement projects in the Umatilla National Forest, northeast Oregon and southeast Washington. M.A. Thesis, University of Oregon, Department of Geography, 373 p.

Blinnikov, M.S., 1999. Late-Pleistocene history of the Columbia Basin grassland based on phytolith records in loess. Ph.D. Dissertation, University of Oregon, Department of Geography, 211 p.

Tattersall, A.M., 1999. Changes in the distribution of selected conifer taxa in the Pacific Northwest during the last 20,000 years. M.S. Thesis, University of Oregon, Interdisciplinary Studies Program, 111p.

Minckley, T.A., 1999. Spatial variation of modern pollen rain in Oregon and southern Washington. M.A. Thesis, University of Oregon, Department of Geography, 127 p.

Blinnikov, M.S., 1999. Late-Pleistocene history of the Columbia Basin grassland based on phytolith records in loess. Ph.D. Dissertation, University of Oregon, Department of Geography, 211 p.

Gardner, J.J., 1999. Charcoal accumulation in lake sediments following a modern fire in the central Cascade Range, Oregon. M.S. Thesis, University of Oregon, Department of Geography, 88 p.

Jett, S.M., 1998. Alluvial fan development in a confined montane valley, Middle Fork John Day River, eastern Oregon. M.S. Thesis, University of Oregon, 179 p.

Hwang, Y.J., 1998. Forest land disturbance and geomorphological effects in Korea. Ph.D. Dissertation, University of Oregon, Department of Geography, 163 p.

Freifeld, H., 1998. Temporal and spatial variation in forest birds on Tutuila Island, American Samoa. Ph.D. Dissertation, University of Oregon, Department of Geography, 180 p.

Rosentrater, L.D., 1997. The thermal climate of the H.J. Andrews Experimental Forest. M.S. Thesis, University of Oregon, Department of Geography, 133 p.

Mohr, J.A., 1997. Postglacial vegetation and fire history near Bluff Lake, Klamath Mountains, California. M.S. Thesis, University of Oregon, Department of Geography, 160 p.

- Millsbaugh, S.H., 1997. Late-glacial and Holocene variations in fire frequency in the Central Plateau and Yellowstone-Lamar Provinces of Yellowstone National Park. Ph.D. Dissertation, University of Oregon, Department of Geography, 262 p.
- Droz, M.S., 1997. Geomorphic and climatic history of holocene channel, playas, and lunettes in the Fort Rock Basin, Lake County, Oregon. M.A. Thesis, University of Oregon, Department of Geography, 115 p.
- Grigg, L.D., 1996. Late-glacial vegetation and climate change in western Oregon. M.A. Thesis, University of Oregon, Department of Geography, 80 p.
- Lamb, A.W., 1996. Geomorphic conditions in salmonid-supporting streams : Umatilla National Forest, northeast Oregon and southeast Washington. M.A. Thesis, University of Oregon, Department of Geography, 163 p.
- Long, C.J., 1996. Fire history of the central Coast Range, Oregon : a ca. 9000 year record from Little Lake. M.A. Thesis, University of Oregon, Department of Geography, 147 p.
- Willson (Songer), L.S., 1994. Reconstructing global surficial deposits at the last glacial maximum. M.A. Thesis, University of Oregon, Department of Geography, 89 p.
- Sea, D.S., 1993. Postglacial vegetation history of Indian Prairie fen and Gold Lake Bog, Central Cascade Range, Oregon. M.S. Thesis, University of Oregon, Department of Geography, 126 p.
- Freifeld, H., 1993. Patterns of vegetation and nesting seabirds at Midway Atoll, Northwestern Hawaiian Islands. M.A. Thesis, University of Oregon, Department of Geography, 68 p.
- Dugas, D.P., 1993. Formation processes and chronology of dune islands at Malheur National Wildlife Refuge, Harney County, Oregon. Ph.D. Dissertation, University of Oregon, Department of Geography, 220 p.
- Freidel, D.E., 1993. Chronology and climatic controls of late Quaternary lake-level fluctuations in Chewaucan, Fort Rock, and Alkali basins, south-central Oregon. Ph.D. Dissertation, University of Oregon, Department of Geography, 244 p.
- McGrath, T.S., 1990. The use of geographic information systems in recreation management : a case study in the Oregon Dunes National Recreation Area. M.A. Thesis, University of Oregon, Department of Geography, 137 p.
- Nakama, L.Y., 1990. Calibration and application of the PRMS watershed model for a forested, headwater basin in Western Oregon. M.A. Thesis, University of Oregon, Department of Geography, 78 p.
- Benjamin, J.E., 1989. Holocene lunette formation and stratigraphy in the Fort Rock Basin, Lake County, Oregon. M.S. Thesis, University of Oregon, Department of Geography, 92 p.
- Hatton, R.R., 1989. Climatic variations and agricultural settlement in southeastern Oregon. Ph.D. Dissertation, University of Oregon, Department of Geography, 262 p.
- Freidel, D.E., 1989. Alluvial stratigraphy in relation to archaeological features on the Long Tom River floodplain, Veneta, Oregon. M.A. Thesis, University of Oregon, Department of Geography, 137 p.
- Phillips, R.H., 1987. The prospects for regional groundwater contamination due to karst landforms in Mescalero caliche at the WIPP site near Carlsbad, New Mexico. Ph.D. Dissertation, University of Oregon, Department of Geography, 316 p.
- Teensma, P.D.A., 1987. Fire history and fire regimes of the central western Cascades of Oregon. Ph.D. Dissertation, University of Oregon, Department of Geography, 188 p.
- Brenner, D.M., 1986. Variation in wild hazelnuts (*Corylus Cornuta* Marsh.) of the Northwest United States. M.A. Thesis, University of Oregon, Department of Geography, 105 p.
- McKeown, R.R., 1986. Regional variation of streamflow distributions in Tennessee. Ph.D. Dissertation, University of Oregon, Department of Geography, 233 p.

Al-Mudaiheem, K., 1985. Water resources and provision problems of Riyadh, Saudi Arabia : an analytical study. Ph.D. Dissertation, University of Oregon, Department of Geography, 261 p.

Outside/External Committee Member: (13 Ph.D.)

In progress: J. Heibert (UO CIS), C. Metzger (UO Geological Sciences)

Winterhoff, E.H. 2007, The Political Economy of Ancient Samoa: Basalt Adze Production and Linkages to Social Status, Dissertation, University of Oregon, Department of Anthropology.

McInnis, H. 2006, Middle Holocene Climate and Culture on the South Coast of Peru, Ph.D. Dissertation, University of Oregon, Department of Anthropology.

Bulatewicz, T. 2006, Support for Model Coupling: An Interface-based Approach, Ph.D. Dissertation, University of Oregon, Department of Computer and Information Science.

Sahr, K. 2005, Discrete Global Grid Systems: A New Class of Geospatial Data Structures, Ph.D. Dissertation, University of Oregon, Department of Computer and Information Sciences, 190 p.

Diffenbaugh, N.S. 2003. Global and regional controls on Holocene environments. Ph.D. Dissertation, University of California, Santa Cruz, Department of Earth Sciences.

Hanner, R.H., 1997. Taxonomic problems with phylogenetic solutions derived from the integration of biochemical, morphological, and molecular data. Ph.D. Dissertation, University of Oregon, Department of Geography, 383 p.

Caplan, A.J., 1996. Asymmetric externalities and strategic behavior : the case of moderate global warming. Ph.D. Dissertation, University of Oregon, Department of Geography, 145 p.

Webb, R.S. 1990. Late-Quaternary water-level fluctuations in the northeastern United States. Ph.D. Dissertation, Brown University, Department of Geological Sciences, 350 p.

Graumlich, L.J.. 1986. Long-term records of temperature and precipitation in the Pacific Northwest derived from tree rings. Ph.D. Dissertation, University of Washington, College of Forest Resources, 198 p.

Greenspan, R.L., 1985. Fish and fishing in northern Great Basin prehistory. Ph.D. Dissertation, University of Oregon, Department of Geography, 227 p.

UNIVERSITY COMMITTEE SERVICE

2007-	UO Educational Technology Committee
2005-2007	College of Arts and Science Curriculum Committee
2006-2007	University Undergraduate Council
2001	Outside member, Mikesell Chair (Economics) search committee
1998-2000	Faculty Personnel Committee
1993	Internal review committee, Dept. Mathematics
1992-1996	Data Services Laboratory Committee
1991-1993	University Graduate Council, Secretary
1987-2000	Social Sciences Instructional Computing Laboratory Committee (chair, 1993)
1986-87	Applications Committee, University Computing Center

DEPARTMENTAL COMMITTEE SERVICE

Computing and Equipment	1982/83-present (Dept. Geography computing environment: 83 users, 84 computers (12 servers, 60 workstations, 13 notebooks), 41 peripherals (printers, scanners, large-format plotters, tape drives, etc.), 1.6 FTE staff)
Graduate Admissions Search Committee (*=chair)	1987/88, 1988/89, 1989/90, 1992/93, 1995/96, 1996/97, 1997/98, 1999/00 1988/89, 1993/94*, 1996/97*(2), 1997/98*, 1998/99*, 1999/00*, 2000/01*, 2003/04*, 2005/06, 2006/07
Affirmative Action Liaison	1996/97-present

Personnel 1997/98-2001/02 ; 2006/07-
 Web Page 1998/99-present

EXTERNALLY FUNDED RESEARCH AT THE UNIVERSITY OF OREGON

Title	Start Date	Duration	Source	U of O Budget
Prehistoric Climate Determined from Modern Pollen and Climate Relationships	9-82	1 yr	DOE, subcontract from ORNL	\$ 15,000
Application of Pollen-Climate Response Surfaces to the Verification of Climate Model Simulations	8-84	2 yrs	NSF, subcontract from Brown Univ.	16,989
Vegetational and Climatic Histories of Northcentral Alaska During the Late Quaternary	12-84	3 yrs	NSF Division of Polar Programs	67,639
Methods for the Validation of Paleoclimatic Simulations	2-85	3.5 yrs	DOE, subcontract from Brown Univ.	52,987
Prehistoric Climate Determined from Modern Pollen and Climate Relationships	1-86	1 yr	DOE, subcontract from ORNL	8,993
Holocene Paleoclimatic Reconstructions for Europe, NATO Grant for International Collaboration in Research	6-87	2 yrs	NATO Intl. Collaboration in Research	0
COHMAP—Cooperative Holocene Mapping Project	9-87	4 yrs	NSF Climate Dynamics Program	184,650
Paleoclimatology of the Southern Great Basin: Reconstruction of Late-Quaternary Climatic Variations from Paleoecological Data	9-87	4 yrs	USDI, U.S. Geological Survey	115,555
Assessing the Response of Vegetation to Future Trace-Gas-Induced Climatic Change: The Application of Ecological Response Surfaces	1-88	1 yr	EPA, Center for Global Habitability	19,932
COHMAP--Cooperative Holocene Mapping Project	9-91	4 yrs	NSF Climate Dynamics Program	442,000
Paleoclimatic Reconstruction and Climate Model Validation using Paleoecological Data Sets	3-92	2 yr	USDI, U.S. Geological Survey	43,000
Potential Magnitude and Rate of Future Vegetation Change in the Western United States in Response to Global Warming (with C. Whitlock)	7-92	1 yr	DOE, Natl. Inst. Global Environmental Change	75,650
EPA Student Traineeship in Global Change	9-94	3 yrs	EPA, Student Research Traineeship	79,181
TEMPO—Testing Earth-system Models using Paleoenvironmental Observations	6-95	4 yrs	NSF, Paleo-climatology Program	496,868
Quaternary Paleoclimatic Variations in Beringia: Large-Scale Controls and Regional Responses (with C. Mock)	6-96	3 yrs	NSF, Arctic System Science	224,565
Applications of Continental-Scale Climate and Vegetation Data Sets to the Validation of Climate Models and the Projection of the Impacts of Future Climatic Changes	10-96	1 yr	USDI, U.S. Geological Survey	24,995
Collaborative Research: Late-Quaternary Climate of Northeast Asia: Temporal and Spatial Variations (with C. Mock)	10-98	3 yrs	NSF, Earth-System History Program	111,766
TEMPO—Testing Earth-system Models using Paleoenvironmental Observations	9-99	4 yrs	NSF, Earth-System History Program	286,383
Collaborative Research: Land-Atmosphere Interactions in Beringia over the Last 21,000 Years: An Investigation of Feedback Using the Arctic Regional Climate System Model	9-2000	4 yrs	NSF, Earth-System History Program	83,853
Methods for Projecting the Response of	9-2000	1 yr	USDI, U.S. Geological Survey	44,995

Vegetation to Regional Climate Change Collaborative ESH/PARCS Research: Centennial-to-Millennial-Scale Climatic Fluctuations in Northeast Siberia during the Last Glacial Cycle (P. Anderson, L. Brubaker, PIs)	9-2001	3 yrs	Survey NSF, Earth-System History Program	0
Development and Testing of Process-Based Models and Datasets for Regional-Scale Modeling	3-2001	1 yr	USDI, U.S. Geological Survey	43,025
Climatic Controls of Fire in the Western United States: from the Atmosphere to Ecosystems (S. Hostetler, P. Bartlein, and A. Solomon, PIs, \$572,136 total)	10-2001	3 yrs	USDI, Joint Fire- Science Program	0
Holocene Fire-Climate-Vegetation Linkages in the Western Mid-latitude Forests of North and South America (C. Whitlock and P. Bartlein, PIs)	10-2001	3 yrs	NSF, Earth-System History Program	418,634
Doctoral Dissertation Research: Visualizing Mechanistic Controls of North American Climate Variability Through Cartographic Animation. (J.J. Shinker and P. Bartlein)	8-2002	1.5 yrs	NSF, Geography and Regional Science Program	9,445
Collaborative Research: Surface-Atmosphere Feedbacks and Holocene Climate Variations in Eastern North America: Linkages, Impacts, and Governing Mechanisms (B. Shuman and P. Bartlein, PIs, \$198,532 Transferred to Univ. Minnesota)	10-2003	4 years	NSF, Earth-System History Program	0
Methods for the interpolation of base-line climate data to regular grids or arbitrary point locations	8-2004	1 year	USDI, U.S. Geological Survey	9,724
Collaborative Research: Project PALEOVAR—Past Climatic variability: understanding mechanisms and interactions with the mean state	6-2006	5 years	NSF, Paleoclimatology	438,803
Collaborative Research: Holocene Fire-Climate Linkages In Southern South America: Explaining Regional Responses To Large-scale Climate Forcing	9-2007	3 yrs	NSF, Paleoclimatology	160,305
Doctoral Dissertation Research: Global Fire Since the Last Glacial Maximum	6-2007	1.5 yrs	NSF, Geography and Regional Science Program	7,585
Total External Funding				\$3,482,522