CURRICULUM VITAE

PAUL E. TODHUNTER

BIOGRAPHICAL DATA

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Birthplace: Baltimore, Maryland
Birthdate: 8 June 1954
Personal: Married, four children

PROFESSIONAL EXPERIENCE

Chair, Department of Geography, University of North Dakota, 1 July 2002 – 30 June 2008.

Visiting Professor of Geography, Østfoldakademiet (American College of Norway), Moss, Norway, Spring Semester 2002.

Professor of Geography. Department of Geography, University of North Dakota, August 1999 – present.

Chair, Department of Geography, University of North Dakota, 1 July 1996 – 30 June 1999.

Associate Professor of Geography, Department of Geography, University of North Dakota, August 1993 – July 1999.

Assistant Professor of Geography, Department of Geography, University of North Dakota, August 1989 - May 1993.

Visiting Assistant Professor of Geography, Graduate School of Geography, Clark University, September 1985 - July 1989.

Senior Programmer, Department of Geography, UCLA, February 1984 - June 1985. Developed and implemented software for use in undergraduate and graduate geography curriculum.

Hydrologist, US Army Corps of Engineers, Los Angeles District, Engineering Division, Hydrologic Engineering Section, January 1982 - June 1984. Assisted in comprehensive hydrologic review of the Los Angeles County Drainage Area.

Computer Programmer, Department of Geography, UCLA, July 1980 - December 1981. Assisted Dr. W.H. Terjung with modeling the crop water requirements, irrigation needs and crop yields of selected agricultural crops.

Geographer, US Army Corps of Engineers, Los Angeles District, Planning Division, Flood Plain Management Section, January 1981 - November 1981. Investigated nonstructural flood control measures for flood-prone sites.

Teaching Associate, Department of Geography, UCLA, January 1980 - June 1980, September 1983 - December 1983. Assisted in introductory physical geography courses.

Teaching Assistant, Department of Geography, UCLA, September 1977 - June 1979. Assisted in introductory physical geography and environmental courses.

Research Assistant, Department of Geography, UCLA, September 1976 - June 1977. Assisted Dr. W.A.V. Clark in statistical analysis of residential mobility data.

AWARDS

University of North Dakota Senate Scholarly Activities Committee Travel Grant, Spring Semester 2006, $275.

Invited Speaker, 36th Annual South Dakota State Geography Convention, South Dakota State University, Brookings, SD, 14-15 April 2005, honorarium.

Selected Participant, Towards Excellence: Leading a Geography Department in the 21st Century, Association of American Geographers, University of Washington, Seattle, WA, 20-22 June 2004.

University of North Dakota College of Arts and Sciences Grant, to attend Association of American Geographers Healthy Departments Workshop, $500.

University of North Dakota Office of Instructional Development Flexible Grant, to attend Association of American Geographers Healthy Departments Workshop, $500.

University of North Dakota Senate Scholarly Activities Committee Travel Grant, Spring Semester 2004, $395.

Visiting Geographical Scientist Program, Gamma Theta Upsilon/Association of American Geographers, Funding to bring Dr. Darrell Napton, South Dakota State University Department of Geography and EROS Data Center to the University of North Dakota, 25 February 2004.

University of North Dakota Senate Scholarly Activities Committee Travel Grant, Spring Semester 2003, $405.

2002 Østfoldakadmiet Professorship, Spring Semester 2002, Moss, Norway.

University of North Dakota Faculty Instructional Development Grant, 2001. Title of Proposal: Digital Camera for Use in the Geography Curriculum, $700.

University of North Dakota Senate Scholarly Activities Committee Publication Award, Fall 2000, $385.

University of North Dakota Senate Scholarly Activities Committee Travel Grant, Spring Semester 2000, $882.

Developmental Leave Award, Spring 2000, College of Arts and Sciences, University of North Dakota, Grand Forks, ND.

Upper Midwest Aerospace Consortium (UMAC) Research Grant, University of North Dakota, 2000, $4,000.

Selected Participant, Preparing Tomorrow's Teachers to Use Technology Grant, College of Education and Human Development, 2000, UND, $4,000 plus laptop PC.

University of North Dakota Faculty Instructional Development Grant, 1998. Title of Proposal: GIS Software for Technology Diffusion into the General Geography Curriculum, $505.

University of North Dakota Faculty Research and Creative Activity Committee Travel Grant, 1997, $245.

Selected Participant, Extended Writing Across the Curriculum Workshop, University of North Dakota, 9-20 June 1997.

Selected Participant, College Commission on Geography 2 Workshop, Developing Active Learning Modules on the Human Dimensions of Global Change, 20-25 June1995, Clark University, Worcester, MA.

University of North Dakota Faculty Research Committee Research Grant, 1993. Title of Proposal: Climatological Investigations of Red River Valley Dust Storms, $325.

University of North Dakota Graduate Research Professorship, 1993, $5,400.

University of North Dakota Faculty Research Committee Travel Grant, 1992, $398.

University of North Dakota Faculty Instructional Development Grant, 1991. Title of Proposal: A Compact Disc Data Set for Technology Transfer in Physical Geography, $299.

University of North Dakota Faculty Research Committee Research Grant, 1990. Title of Proposal: Minneapolis - St. Paul Metropolitan Region Urban Heat Island Data Base Compilation and Analysis, $275.

University of North Dakota Summer Instructional Development Professorship, 1990. Title of Proposal: Development of Computer Exercises for Laboratory Instruction in Climatology, $2,700.

Clark University Faculty Travel Grants, 1986, 1987, 1988, 1989.

Clark University Faculty Development Fund Award, 1987. Title of Proposal: A Model of Microscale Suburban Snowmelt Processes.

Clark University Faculty Development Fund Award, 1986. Title of Proposal: Geographical and Synoptic Weather Controls on Urban Surface Energy Budgets -- A Simulation Approach.

Graduate Division Research Grant, UCLA, 1984.

Professional/Scholarly Conference Travel Grant, UCLA, 1984, 1985.

Sigma Xi Honorary Society, Full Member, UCLA, 1982.

Phi Beta Kappa, UCLA, 1976. Dean's List, UCLA, 1972-1976.

PROFESSIONAL AFFILIATIONS

Association of American Geographers
American Meteorological Society
American Geophysical Union
International Association of Hydrological Sciences
Lewis and Clark Trail Heritage Foundation, Inc.
Nordmanns Forbundet (The Norse Federation)

FUNDED RESEARCH

Time Change Detection of Total Crown Area in North Dakota Urban Forests: A Pilot Study, North Dakota View, $4,575 (1 year), P. Todhunter (PI).

A Test of Borehole Paleoclimatology as a Method to Quantify Radiative Climate Forcing, W.D. Gosnold (PI), P. Todhunter, B. Rundquist, X. Dong, J. Majorowicz (Co-PIs), National Science Foundation, $385,768, 3 Years, 7/03–6/06.

Assessing Loss of Agricultural Lands to Wetland Expansion in the Devils Lake Basin of North Dakota Using Satellite Remote Sensing. Faculty Research Seed Money Committee, University of North Dakota, Office of Research and Program Development, Co-PI with Dr. B. C. Rundquist, Department of Geography, $8,221.

Flood Damage Assessment and Survey of Mitigation Efforts at Stump Lake, North Dakota: A Case Study of a Closed-Basin Lake Flood. Quick Response Research Program, Natural Hazards Research and Applications Information Center, University of Colorado, Boulder, Co-PI with Dr. B. C. Rundquist, Department of Geography, $1,200.

Climate Change in the Midcontinent of North America, National Institute for Global Environmental Change (DOE), Great Plains Regional Center, Co-PI with Dr. W. D. Gosnold, Jr. (PI), Department of Geology and Geological Engineering, 1 July 1994 - 30 June 1995, $40,000.

Climate Change in the Midcontinent of North America, National Institute for Global Environmental Change (DOE), Great Plains Regional Center, Co-PI with Dr. W.D. Gosnold, Jr. (PI), Department of Geology and Geological Engineering, 1 July 1993 - 30 June 1994, $113,750.

RESEARCH PUBLICATIONS

Articles

Todhunter, P.E., and B.C. Rundquist, 2008: Pervasive Wetland Flooding in the Glacial Drift Prairie of North Dakota (USA). Natural Hazards (in press).

Sethre, P.R., Rundquist, B.C. and **P.E. Todhunter**, 2005: Remote Detection of Prairie Pothole Ponds in the Devils Lake Basin of North Dakota. GIScience and Remote Sensing, 42(4), 277-296.

Grundstein, A., **Todhunter, P.E.**, and T. Mote, 2005: Snowpack Control over the Thermal Offset of Air and Soil Temperatures in Eastern North Dakota. Geophysical Research Letters, 32, L08503, doi:10.1029/2005GL022532.

Todhunter, P.E., and B.C. Rundquist, 2004: Terminal Lake Flooding and Wetland Expansion in Nelson County, North Dakota. Physical Geography, 25(1), 68-85.

Todhunter, P.E., 2002: A Hydroclimatic Analysis of the 1997 Flood at Grand Forks, North Dakota (USA). The Extremes of the Extremes: Extraordinary Floods, International Association of Hydrological Sciences (IAHS), IAHS Publication No. 271, 87-92.

Todhunter, P.E., 2001: A Hydroclimatological Analysis of the Red River of the North Snowmelt Flood Catastrophe of 1997. Journal of the American Water Resources Association, 37(5), 1263-1278.

Gosnold, Jr., W.D., LeFever, J.A., **Todhunter, P.E.**, and L.F. Osborne, Jr., 2000: Rethinking Flood Prediction: Does the Traditional Approach Need to Change? Geotimes, 45(5), 20-23.

Todhunter, P.E., and L. Cihacek, 1999: Historical Reduction of Airborne Dust in the Red River Valley of the North. Journal of Soil and Water Conservation, 54, 543-551.

Todhunter, P.E., 1998: Flood Hazard in the Red River Valley: A Case Study of the Grand Forks Flood of 1997. North Dakota Quarterly, 65(4): 254-275.

Godon, N., and **P.E. Todhunter**, 1998: A Climatology of Airborne Dust for the Red River Valley of North Dakota. Atmospheric Environment, 32, 1587-1594.

Gosnold, Jr., W.D., **P.E. Todhunter**, and W. Schmidt, 1997: The Borehole Temperature Record of Climate Warming in the Mid-Continent of North America. Global and Planetary Change, 15, 33-45.

Todhunter, P.E., 1996: Environmental Indices for the Twin Cities Metropolitan Area (Minnesota, USA) Urban Heat Island - 1989. Climate Research, 6, 59-69.

Todhunter, P.E., 1995: Hydroclimatic Perspectives on Waterfowl Production in the North Dakota Prairie Pothole Region. Great Plains Research, 5, 137-162.

Todhunter, P.E., F. Xu, and J.M. Buttle, 1992: A Model of Net Radiation over Suburban Snowpacks. Atmospheric Environment B: Urban Atmosphere, 26B, 17-27.

Todhunter, P.E., 1990: Microclimatic Variations Attributable to Urban Canyon Asymmetry and Orientation. Physical Geography, 11, 131-141.

Todhunter, P.E., and W.H. Terjung, 1989: The Response of Urban Canyon Energy Budgets to Variable Synoptic Weather Types - A Simulation Approach. Atmospheric Environment Part B: Urban Atmosphere, 24B, 35-42.

Todhunter, P.E., 1989: An Approach to the Variability of Urban Surface Energy Budgets under Stratified Synoptic Weather Types. International Journal of Climatology, 9, 191-201.

Todhunter, P.E., L.O. Mearns, W.H. Terjung, J.T. Hayes, and H-Y Ji, 1989: Effects of Monsoonal Fluctuations on the Crop Productivity of Grains in China. I. Climatic Conditions 1961 - 1975. Journal of Climate, 2, 5-17.

Terjung, W.H., L.O. Mearns, **P.E. Todhunter**, J.T. Hayes, and H-Y Ji, 1989: Effects of Monsoonal Fluctuations on the Crop Productivity of Grains in China. II. Crop Water Requirements. Journal of Climate, 2, 19-37.

Todhunter, P.E., and W.H. Terjung, 1988: Intercomparison of Three Urban Climate Models. Boundary-Layer Meteorology, 42, 181-205.

Terjung, W.H., J.T. Hayes, H-Y Ji, **P.E. Todhunter**, and P.A. O'Rourke, 1985: Potential Paddy Rice Yields for Rainfed and Irrigated Agriculture in China and Korea. Annals of the Association of American Geographers, 75, 83-101.

Terjung, W.H., H-Y Ji, J.T. Hayes, P.A. O'Rourke, and **P.E. Todhunter**, 1984: Crop Water Requirements for Rainfed and Irrigated Rice (Paddy) in China. Archives for Meteorology, Geophysics and Bioclimatology, 34B, 181-202.

Terjung, W.H., D.M. Liverman, J.T. Hayes, P.A. O'Rourke, and **P.E. Todhunter**, 1984: Climatic Change and Water Requirements for Grain Corn in the North American Great Plains. Climatic Change, 6, 193-220.

Terjung, W.H., J.T. Hayes, P.A. O'Rourke, and **P.E. Todhunter**, 1984: Yield Response of Crops to Changes in Environment and Management Practices: Model Sensitivity Analysis. I. Maize. International Journal of Biometeorology, 28, 261-278.

Terjung, W.H., J.T. Hayes, P.A. O'Rourke, and **P.E. Todhunter**, 1984: Yield Response of Crops to Changes in Environment and Management Practices: Model Sensitivity Analysis. II. Rice, Wheat, and Potato. International Journal of Biometeorology, 28, 279-292.

Terjung, W.H., H-Y Ji, J.T. Hayes, P.A. O'Rourke, and **P.E. Todhunter**, 1984: Actual and Potential Yield for Rainfed and Irrigated Wheat in China. Agricultural and Forest Meteorology, 31, 1-23.

Terjung, W.H., H-Y Ji, J.T. Hayes, P.A. O'Rourke, and **P.E. Todhunter**, 1984: Actual and Potential Yield for Rainfed and Irrigated Maize in China. International Journal of Biometeorology, 28, 115-135.

Terjung, W.H., H-Y Ji, J.T. Hayes, P.A. O'Rourke, and **P.E. Todhunter**, 1984: Crop Water Requirements for Rainfed and Irrigated Wheat in China and Korea. Agricultural Water Management, 8, 411-427.

Terjung, W.H., H-Y Ji, J.T. Hayes, P.A. O'Rourke, and **P.E. Todhunter**, 1984: Crop Water Requirements for Rainfed and Irrigated Grain Corn in China. Agricultural Water Management, 6, 43-64.

Terjung, W.H., J.T. Hayes, P.A. O'Rourke, J.E. Burt, and **P.E. Todhunter**, 1982: Consumptive Water Use Response of Maize to Changes in Environmental and Management Practices: Sensitivity Analysis of a Model. Water Resources Research, 18, 1539-1550.

Terjung, W.H., J.T. Hayes, P.A. O'Rourke, J.E. Burt, and **P.E. Todhunter**, 1982: A Feasible Crop Yield Model for Worldwide International Food Allocation. International Journal of Biometeorology, 26, 239-257.

Burt, J.E., J.T. Hayes, P.A. O'Rourke, W.H. Terjung, and **P.E. Todhunter**, 1981: A Parametric Crop Water Use Model. Water Resources Research, 17, 1095-1108.

Band, L.E., O.B. Elfes, J.T. Hayes, L.O. Mearns, P.A. O'Rourke, B.H. Stevenson, **P.E. Todhunter**, and W.H. Terjung, 1981: Application of a Photosynthesis Model to an Agricultural Region of Varied Climates: California. Agricultural Meteorology, 24, 201-217.

Books

Geiger, R., R.H. Aron, and **P.E. Todhunter**, 2003: The Climate Near the Ground. Sixth Edition, Lanham, MD: Rowman & Littlefield Publishers, Inc., 584 pp.

Geiger, R., R.H. Aron, and **P.E. Todhunter**, 1995: The Climate Near the Ground. Fifth Edition, Wiesbaden: Friedr. Vieweg & Sohn Verlagsgesellschaft mbH., 528 pp.

Refereed Proceedings

Todhunter, P.E., and W.D. Gosnold, Jr. 2000. A Quality-Assured Comparison of the Surface Air Temperature and Ground Surface Temperature Histories from Two North American Mid-Continent Boreholes. Proceedings of the 11th Symposium on Global Change Studies, 232-233.

Todhunter, P.E., 1997: Historical Climate of the Devils Lake Region. Proceedings, North Dakota Academy of Science, 51, 29-33.

Todhunter, P.E., 1995: Impact of Conservation Practices on Wind Erosion in the Red River Valley of North Dakota: 1948 - 1991. Proceedings, Symposium on Planning for a Sustainable Future: The Case of the North American Great Plains, IDIC Technical Report 95-1, 185-187.

Todhunter, P.E., 1994: The Twin Cities Metropolitan Area Urban Heat Island: Analog for Global Warming? Proceedings, North Dakota Academy of Science, 48, 68.

Todhunter, P.E., 1993: Historical Temperature and Precipitation Trends at Jamestown, North Dakota. Proceedings, North Dakota Academy of Science, 47, 5.

Refereed On-Line Publications

Todhunter, P.E. and B.R. Rundquist, 2003: Flood Damage Assessment and Survey of Mitigation Efforts at Stump Lake, North Dakota: A Study of a Closed-basin Lake Flood. Quick Response Research Report #164, Boulder, CO: Natural Hazards Research and Applications Information Center, University of Colorado. URL: http://www.colorado.edu/hazards/qr/qr164/qr164.html.

Refereed Abstracts

Todhunter, P.E., 2000: A Hydroclimatic Analysis of the 1997 Flood at Grand Forks, North Dakota (USA). Symposium Abstracts, The Extremes of the Extremes, International Symposium on Extraordinary Floods, 17.

Todhunter, P.E., 1998: The Grand Forks Flood Forecast of April 1997: A Flood Participant's Assessment. Eos, Special Supplement, 1998 Spring Meeting, S117.

Gosnold, Jr., W.D., and **P.E. Todhunter**, 1994: Analysis of the Geothermal Gradient as a Method of Paleoclimate Reconstruction. Eos, 75(44), 76.

Reviews

Todhunter, P.E., 1991: Geo-EAS (Geostatistical Environmental Assessment Software) by E. Englund and A. Sparks, The Professional Geographer, 43(3), 365-366.

Todhunter, P.E., 2004: Natural Hazards and Environmental Change by Bill McGuire, Ian Mason, and Christopher Kilburn, The Geographical Review, 94(2), 248-250.

Invited Papers

Todhunter, P.E., 1998: The Teaching Journey of a Slow Learner. UND Writing Across the Curriculum Newsletter, 8(3), 1-2, 4-5.

Other Publications

Todhunter, P.E., 2006. Introduction to Global Climate. Division of Continuing Education, Online Course, Grand Forks, ND: University of North Dakota.

Todhunter, P.E., 2005. Introduction to Global Climate. Division of Continuing Education, Correspondence Division Course, Grand Forks, ND: University of North Dakota, 119 pp.

Todhunter, P.E., 1999. Introduction to Global Climate. Division of Continuing Education, Correspondence Division Course, Grand Forks, ND: University of North Dakota, 118 pp.

Monographs

Hayes, J.T., P.A. O'Rourke, W.H. Terjung, and **P.E. Todhunter**, 1982: YIELD: A Numerical Crop Yield Model of Irrigated and Rainfed Agriculture. Publications in Climatology, XXXV, C.W. Thornthwaite Associates and Center for Climatic Research, Elmer, NJ, 143 pp.

Burt, J.E., J.T. Hayes, P.A. O'Rourke, W.H. Terjung, and **P.E. Todhunter**, 1980: WATER: A Model of Water Requirements for Irrigated and Rainfed Agriculture. Publications in Climatology, XXXIII, C.W. Thornthwaite Associates and Center for Climatic Research, Elmer, NJ, 119 pp.

Works in Progress

"Relationship of the Thermal Offset of Soil and Air Temperatures to Snow Cover in the United States Great Plains," to be submitted to Climate Research (with Julie L. Popham).

"Uncertainty Analysis in Estimating the Regulatory Flood Peak Discharge: The Case of the Red River of the North," to be submitted to Natural Hazards Review.

PROFESSIONAL PAPER PRESENTATIONS

Rundquist, B.C., Sethre, P.R. and **P.E. Todhunter**, 2006: Remote Detection of Prairie Pothole Ponds in the Devils Lake Basin of North Dakota. Annual Meeting of the Prairie Division, Canadian Association of Geographers, Rugby, ND, 30 September 2006.

Todhunter, P.E., 2006: Interannual Variation of Air-Soil Temperature Coupling in a Region with a Large Seasonal Cryosphere Gradient. Joint Annual Meeting of the

Great Plains/Rocky Mountain Division and the West Lakes Division of the Association of American Geographers, Lincoln, NE, 5-7 October 2006.

Gosnold, W; Majorowicz, J; Dong, X; Rundquist, B; **Todhunter, P**; Popham, J; Wood, S; Heinle, S; Robinson, R, 2006: Linking Borehole Temperatures to Air Temperatures. European Geosciences Union, General Assembly 2006, Vienna, Austria, 2-7 April 2006.

Todhunter, P.E. (2006) Regional Patterns of the Thermal Offset of Soil and Air Temperatures in the Great Plains of the United States. Annual Meeting of the Association of American Geographers, Chicago, IL, 7-11 March 2006.

Rundquist, B.C., Sethre, P.R. and **P.E. Todhunter**, 2005: Remote Detection of Prairie Pothole Ponds in the Devils Lake Basin of North Dakota. Annual Meeting of the Great Plains/Rocky Mountain Division, Association of American Geographers, Laramie, WY, 22-24 September 2005.

Gosnold, Jr., W.D., Dong, X., **Todhunter, P.E.**, Rundquist, B.R., and J. Majorowicz, 2005: Separation of Anthropogenic Climate Forcing from Natural Climate Variability. Geological Society of America, Earth System Processes 2, Calgary, Canada, 8-11 August 2005.

Todhunter, P.E., 2005: Let the (Property) Buyer Beware: The Myth of the 100-Year Floodplain. 36th Annual South Dakota State Geography Convention, South Dakota State University, Brookings, SD, 14-15 April 2005.

Todhunter, P.E., 2005: The 100-Year Floodplain: A Prescription for Flood Disaster. 2005 International Water Conference, 7 April 2005, Winnipeg, MB, Canada.

Popham. J., Dong, X., Gosnold, Jr., W.D. and **P.E. Todhunter**, 2004: Solar Radiation and Climate Change in the Great Plains. Joint Assembly of the American Geophysical Union, 20 May 2004, Montréal, Canada.

Todhunter, P.E., Brookman, D., Mutzenberger, C., Namberger, P., and J. Pedraza, 2004: Uncertainty Analysis in Estimating the Regulatory Flood Peak Discharge: The Case of the Red River of the North. Annual Meeting of the Association of American Geographers, March 2004, Philadelphia, PA.

Todhunter, P.E., Brookman, D., Mutzenberger, C., Namberger, P., and J. Pedraza, 2003: Estimation of the 100-year Flood During Distinct Climatic Regimes: An Application of Hurst Rescaling. Annual Meeting of the Great Plains/Rocky Mountain Division, Association of American Geographers, October 2003, Manhattan, KS.

Todhunter, P.E. and B.C. Rundquist, 2003: Damage Assessment of Stump Lake and Wetland Flooding in Nelson County, North Dakota. First Annual International Water Conference, 23 April 2004, Moorhead, MN.

Rundquist, B.C. and **P.E. Todhunter**, 2003: The Quiet Flood: Terminal Lake Flooding and Wetland Expansion in Nelson County, North Dakota, Meeting of the Society of Sigma Xi, University of North Dakota Chapter, 27 March 2003.

Todhunter, P.E. and B.C. Rundquist, 2003: Slow Death by Water: Ten Years of Flooding in Nelson County, North Dakota. Annual Meeting of the Association of American Geographers, March 2003, New Orleans, LA.

Rundquist, B.C., **Todhunter, P.E.** and P.R. Sethre, 2002: Assessing the Loss of Agricultural Lands from a Pervasive, Closed-Basin Flooding Event in the Devils Lake Basin of North Dakota. The 25th Annual Applied Geography Conference, October 2002, Binghamton, NY.

Rundquist, B.C. and **Todhunter, P.E.**, 2001: Assessing Potential Damage from a Pervasive Closed-Basin Flooding Event at Stump Lake, North Dakota. Annual Meeting of the Great Plains/Rocky Mountain Division, Association of American Geographers, September 2001, Omaha, NE.

Todhunter, P.E., 2000: A Hydroclimatic Analysis of the 1997 Flood at Grand Forks, North Dakota (USA). The Extremes of the Extremes, International Symposium on Extraordinary Floods, Hydrological Service, National Energy Authority, Iceland, International Association of Hydrological Sciences, 17 July 2000, Reykjavík, Iceland, (invited paper).

Todhunter, P.E. and W.D. Gosnold, Jr. 2000. A Quality-Assured Comparison of the Surface Air Temperature and Ground Surface Temperature Histories from Two North American Mid-Continent Boreholes. 11th Symposium on Global Change Studies, American Meteorological Society, 13 January, 2000, Long Beach, CA.

Todhunter, P.E., 1999: Hydrogeographic Basis of Flooding in Devils Lake Basin, North Dakota. Annual Meeting of the Prairie Division, Canadian Association of Geographers, 25 September 1999, Winnipeg, MB.

Todhunter, P.E., 1999: Devils Lake Basin: A Terminal Dilemma in Rural North Dakota. Speaker Series, Department of Geography, Kansas State University, 8 February 1999, Manhattan, KS.

Todhunter, P.E., 1998: *Caveant admonitus* (Let the forewarned beware): Geographical Perspectives on the Grand Forks Flood of 1997. Annual Meeting of the West Lakes Division, Association of American Geographers, 30 October 1998, Madison, WI.

Todhunter, P.E., 1997: Historical Climate of the Devils Lake Region. Symposium on The Devils Lake Basin: A Scientific Perspective, Annual Meeting of the North Dakota Academy of Science, 15 September 1997, Grand Forks, ND.

Todhunter, P.E. and L.J. Cihacek, 1997: Historical Trends of Airborne Dust at Fargo, North Dakota: 1948-1994. International Symposium/Workshop on Wind Erosion, June 1997, Manhattan, KS.

Todhunter, P.E., and W.D. Gosnold, Jr., 1997: A Comparison of the Borehole and Instrumented Temperature Records of Climate Warming at Wall, South Dakota. Annual Meeting of the Association of American Geographers, April 1997, Ft. Worth, TX. A.A.G. Program Abstracts, 267.

Gosnold, Jr., W.D., W. Schmidt, and **P.E. Todhunter**, 1995: Analyses of Climate Change Based on Borehole Temperatures in High Latitude May Contain a Positive Bias Caused by a Secular Increase in Precipitation. Fall Meeting of the Geological Society of America, November 1995, New Orleans, LA.

Todhunter, P.E., and W.D. Gosnold, Jr., 1995: Secular Climate Change at Cottonwood, South Dakota: Baseline Analyses for Paleoclimate Reconstruction Using the Geothermal Gradient. Annual Meeting of the Great Plains/Rocky Mountain Division, Association of American Geographers, October 1995, Rapid City, SD.

Gosnold, Jr., W.D., **P.E. Todhunter**, and W. Schmidt, 1995: The Geothermal Gradient and Climate Change. IUGG XXII General Assembly, July 1995, Boulder, CO.

Todhunter, P.E., 1995: Wind Erosion Trends at Fargo, North Dakota: 1948 - 1991. Annual Meeting of the Association of American Geographers, March 1995, Chicago, IL. A.A.G. Program Abstracts, 305.

Todhunter, P.E., 1994: The Twin Cities Metropolitan Area Urban Heat Island: Analog for Global Warming? Annual Meeting of the North Dakota Academy of Science, 28-30 April 1994, Fargo, ND.

Gosnold, Jr., W.D. and **P.E. Todhunter**, 1994: Analysis of the Geothermal Gradient as a Method of Paleoclimate Reconstruction. Fall Meeting of the American Geophysical Union, November 1994, San Francisco, CA.

Todhunter, P.E., 1993: Historical Temperature and Precipitation Trends at Jamestown, North Dakota. Symposium on Global Climate Change Research in the Northern Plains, North Dakota Academy of Science, 29-30 April 1993, Jamestown, ND.

Todhunter, P.E., 1993: Environmental Impacts of the Twin Cities Metropolitan Area Urban Heat Island. Annual Meeting of the Great Plains/Rocky Mountain Division, Association of American Geographers, September 1993, Boulder, CO.

Todhunter, P.E., 1992: Climate Specialty Group: Urban Climate I: Urban Heat Island. A High-Density Urban Heat Island Data Set for Environmental Analysis. Annual Meeting of the Association of American Geographers, April 1992, San Diego, CA. A.A.G. Program Abstracts, 238.

Todhunter, P.E., 1992: Global Warming, Climate Variability, and the North Dakota Prairie Pothole Region. Northern Prairie Wildlife Research Center, Jamestown, ND, 20 February 1992.

Todhunter, P. E., 1992: The Case Against Global Warming. Meeting of the Society of Sigma Xi, University of North Dakota Chapter, 21 November 1991.

Todhunter, P.E., 1992: A Water Budget Climatology of the North Dakota Prairie Pothole Region, 1895 - 1990. Annual Meeting of the Great Plains/Rocky Mountain Division, Association of American Geographers, September 1991, Laramie, WY.

Todhunter, P.E., 1990: A Model of Net Radiation over Ripe Suburban Snowpacks. Weekly Seminar Series, Department of Geography, University of Delaware, Newark, DE, 23 March 1990.

Todhunter, P.E., 1989: A Model of Net Radiation over Ripe Suburban Snowpacks: Model Development and Validation. Annual Meeting of the Prairie Division, Canadian Association of Geographers, September 1989, Minot, ND. CAG Prairie Division Newsletter, Vol. 10, p. 36.

Todhunter, P.E., 1989: Climate Specialty Group: Urban Climatology. A Suburban Microscale Snowmelt Model. Annual Meeting of the Association of American Geographers, March 1989, Baltimore, MD. A.A.G. Program Abstracts, 207.

Todhunter, P.E., 1988: Urban Microclimatic Variations Due to Asymmetry and Orientation Effects. Annual Meeting of the Association of American Geographers, April 1988, Phoenix, AZ. A.A.G. Program Abstracts, 189.

Todhunter, P.E., 1987: Climate Specialty Group: Urban Climatology. The Effects of Synoptic Weather Types and Urban Geometry on Urban Energetics -- A Simulation Approach. Annual Meeting of the Association of American Geographers, April 1987, Portland, OR. A.A.G. Program Abstracts, 101.

Todhunter, P.E., 1986: The Evaluation of Urban Surface Energy Flux Parameterization Schemes. Annual Meeting of the Association of American Geographers, May 1986, Minneapolis, MN. A.A.G. Program Abstracts, 263.

Todhunter, P.E., 1985: An Examination of the Parameterization of Surface Energy Exchange Processes in Urban Climate Models. Joint Meeting of the Middle States Division and New England and St. Lawrence Valley Geographical Society, October 1985, Albany, NY.

Todhunter, P.E., 1985: A Latitudinal Comparison of Energy Budget Fluxes from Selected Urban Heat Island Models. Annual Meeting of the Association of American Geographers, April 1985, Detroit, MI. A.A.G. Program Abstracts, 106.

Todhunter, P.E., 1984: Climate Specialty Group Climatology. A Comparison of Energy Budget Flux Percentages from Microscale and Mesoscale Urban Heat Island Models. Annual Meeting of the Association of American Geographers, April 1984, Washington, DC. A.A.G. Program Abstracts, 107.

Todhunter, P.E., 1981: Simulating the Effect of Soil Moisture Stress on Alfalfa Consumptive Use Requirements in California. Annual Meeting of the Association of American Geographers, April 1981, Los Angeles, CA. A.A.G. Program Abstracts, 170.

Band, L.E., O.B. Elfes, J.T. Hayes, L.O. Mearns, P.A. O'Rourke, B.J. Stevenson, W.H. Terjung, and **P.E. Todhunter**, 1980: Growing Season Variation of Relative Potential Canopy Net Photosynthesis in California. Annual Meeting of the Association of Pacific Coast Geographers, June 1980, Reno, NV.

Todhunter, P.E., 1980: The Validation of a Model Simulating Evapotranspiration for Rainfed and Irrigated Crops. Annual Meeting of the Association of Pacific Coast Geographers, June 1980, Reno, NV.

PROFESSIONAL POSTER PRESENTATIONS

Todhunter, P.E., and J.L. Popham, 2005: Relationship Between Snow Cover and Thermal Offset of Soil and Air Temperatures in the Great Plains of the United States. Fall Meeting of the American Geophysical Union, San Francisco, CA, 5-9 December 2005.

Todhunter, P.E., Popham, J.L. and W.D. Gosnold, Jr., 2005: Thermal Offset of Soil and Air Temperatures in the Great Plains of the United States: Implications for Borehole Climate Reconstruction. Spring Meeting of the American Geophysical Union, New Orleans, LA, 23-27 May 2005.

Todhunter, P.E., Popham. J, Gosnold, Jr., W.D., Dong, X. and S. Wood, 2004: Long-term Air-soil Temperature Coupling at Fargo, North Dakota: Assessment of

Climate Reconstruction Assumptions. Joint Assembly of the American Geophysical Union, 20 May 2004, Montréal, Canada.

Gosnold, Jr., W.D. **Todhunter, P.E.**, Dong, X., Majorowicz, J. and D.D. Blackwell, 2004: A Multidisciplinary Approach to Assessing the Causal Components of Climate Change. Joint Assembly of the American Geophysical Union, 20 May 2004, Montréal, Canada.

Grundstein, A., **Todhunter, P.E.**, and T. Mote, 2004: Soil Temperature/Snowpack Relationship in Eastern North Dakota. Annual Meeting of the Association of American Geographers, March 2004, Philadelphia, PA.

Rundquist, B.C. and **P.E. Todhunter**, 2003: Determining the Extent of Terminal Lake and Wetland Flooding in Nelson County, North Dakota: 1992-2001. ND StaR (North Dakota Space Training and Research) Space on the Prairie Conference, University of North Dakota, 11 August 2003, Grand Forks, ND.

Todhunter, P.E., 1998: The Grand Forks Flood Forecast of April 1997: A Flood Participant's Perspective. 1998 Spring Meeting, American Geophysical Union, May 1998, Boston, MA.

Todhunter, P.E., 1995: Impact of Conservation Practices upon Wind Erosion in the Red River Valley of North Dakota: 1948 - 1991. Symposium on Planning for a Sustainable Future: The Case of the North American Great Plains, May 1995, University of Nebraska, Lincoln, NE.

PUBLIC PRESENTATIONS

Todhunter, P.E., 2005: Adventures in Norway, or Why Everyone Should Study Abroad. Geography Department Forum, 4 February 2005, Ireland Hall 157, University of North Dakota.

CONFERENCE, WORKSHOP, AND SYMPOSIUM PARTICIPATION

Towards Excellence: Leading a Geography Department in the 21st Century, Association of American Geographers, University of Washington, Seattle, WA, 20-22 June 2004.

Evaluating Teaching, A Workshop for UND Faculty and Departments, by Dr. Peter Seldin, University of North Dakota, 24 October 2003.

The Extremes of the Extremes, International Symposium on Extraordinary Floods, Hydrological Service, National Energy Authority, Iceland, and the International Association of Hydrological Sciences, 17 July 2000, Reykjavík, Iceland.

Co-Convenor, Symposium on "An Update on the Red River of the North and Devils Lake Basins – Developing a Comprehensive Water Strategy", 15 April 1999, Annual Meeting of the North Dakota Academy of Sciences, Grand Forks, ND.

Undergraduate Program Evaluation, 13 November 1997, University of North Dakota, Grand Forks, ND.

Rapporteur on Human Dimensions and Community Services, Workshop on "Impact of Climate Variability and Climate Change on the Northern Great Plains", Upper Midwest Aerospace Consortium (UMAC), 5-7 November 1997, University of

North Dakota, Grand Forks, ND.

Academic Leadership: A Conference for Academic Chairs and Program Directors, Dr. Ann F. Lucas, 18-19 September 1997, University of North Dakota, Grand Forks, ND.

Symposium on the Devils Lake Basin: A Scientific Perspective, 15 September 1997, Grand Forks, ND.

Extended Writing Across the Curriculum Workshop, University of North Dakota, 9-20 June 1997.

International Symposium/Workshop on Wind Erosion, Commemorating the 50th Anniversary of the USDA's Wind Erosion Research at Kansas State University, 3-4 June 1997, Manhattan, Kansas.

College Commission on Geography 2 Workshop, Developing Active Learning Modules on the Human Dimensions of Global Change, 20-25 June 1995, Clark University, Worcester, MA.

Symposium on Planning for a Sustainable Future: The Case of the North American Great Plains, 8-10 May 1995, University of Nebraska, Lincoln, NE.

North Dakota Wind Resource Assessment Program Workshop, 14-15 October 1993, University of North Dakota, Grand Forks, ND.

Symposium on Global Climate Change Research in the Northern Plains, 29-30 April 1993, Jamestown, ND.

Climate Change on the Great Plains, 14th Annual Symposium of the Center for Great Plains Studies, 5-7 April 1990, University of Nebraska, Lincoln, NE.

Instructional Computing Strategies in Higher Education, A Conference Sponsored by the University of North Dakota and the IBM Academic Information Systems Group, 6-7 October 1989, Grand Forks, ND.

Digital Processing of Remotely Sensed Data. Sponsored by the Remote Sensing Specialty Group, AAG Annual Meeting, 6-7 April 1988, Phoenix, AZ.

REFEREE FOR JOURNALS, PRESSES, AND FUNDING AGENCIES

Annals of the Association of American Geographers
Association of North Dakota Geographers Bulletin
Atmospheric Environment (Urban Atmopshere) (6)
Atmospheric Environment B: Urban Atmosphere
Brooks/Cole Publishing Company
Climate Research
Climatological Bulletin
The Encyclopedia of Water Science
Geographical Review
International Journal of Climatology
Journal of Applied Meteorology (2)
Journal of Applied Meteorology and Climatology (2)
Journal of Atmospheric and Oceanic Technology
Journal of Geoscience Education
Journal of Soil and Water Conservation

National Science Foundation - Division of Earth Sciences: Hydrological Sciences
National Science Foundation - Geography and Regional Science Division (2)
National Science Foundation - Division of Earth Sciences: Earth Systems History
National Science Foundation - Division of Earth Sciences: Sedimentary Geology and Paleobiology
Natural Hazards Review
Papers of the Applied Geography Conference
Physical Geography (2)
Pearson Prentice Hall – *Geosystems* 6/e
Prentice-Hall – *Understanding Weather & Climate* 2/e
The Professional Geographer
Unwin Hyman Limited Publishers
U.S. Civilian Research and Development Foundation

INSTITUTIONAL SERVICE

External Member, Norwegian Languages Search Committee, Department of Modern and Classical Languages, University of North Dakota, 2007-2008.

Faculty Representative, Chester Fritz Auditorium Advisory Committee, 2006 – 2009.

Chair, Graduate School Committee, University of North Dakota, 2005-2006.

Member, UND-American College of Norway Advisory Committee, University of North Dakota, Fall 2005 – present.

Member, ORPD Proposal Review Committee, Arts, Humanities, and Social Sciences Grant Applications, Vice-President of Research and Development, University of North Dakota, 12-13 April 2005.

Social Science Representative, Graduate School Committee, University of North Dakota, 2003 – present.

Member, Intercollegiate Athletics Committee, University of North Dakota, 2003 – 2006.

Chair, Graduate School Committee, University of North Dakota, 2003-2004.

Member, Graduate Dean Search Committee, University of North Dakota, Spring Semester 2001.

Member, University Senate, University of North Dakota, 2000 - 2002.

Member, President's ad hoc Committee on Promotions, University of North Dakota, 2000 – 2003.

Social Science Representative, Graduate School Committee, University of North Dakota, 2000 - 2003.

Member, Indian Studies Departmental Review Committee, University of North Dakota, 1998-1999.

Member, Tenure, Reappointment and Promotion Committee, College of Arts and Sciences, University of North Dakota, 1997 - 2000.

THESIS

Todhunter, P.E., 1986: A Comparison of Selected Surface Energy Balance Models in Urban Climatology. Ph.D. Dissertation, Department of Geography, UCLA, 389 pp.

Todhunter, P.E., 1981: A Computer Model Validation of the Simulation of Crop Water Requirements and Irrigation Needs. M.A. Thesis, Department of Geography, UCLA, 256 pp.

EDUCATION

Degrees

Ph.D. 1986. University of California, Los Angeles. Geography.Supervisor: Werner H. Terjung. Fields of written comprehensive exams: climatology, hydrology, soils.

C. Phil. 1983, University of California, Los Angeles. Geography.

M.A. 1981, University of California, Los Angeles. Geography. Supervisor: Werner H. Terjung.

B.A. 1976, University of California, Los Angeles. Geography-Ecosystems (magna cum laude).

COURSES TAUGHT

University of North Dakota:

121 Global Physical Environment
134 Introduction to Global Climate
300 Special Topics: Devils Lake Flood Tour
300 Special Topics: Lewis and Clark in North Dakota
322 Environmental Hazards
334 Climatology
334L Climatology Lab
354 Conservation of Resources
421 Selected Topics in Physical Geography: Human Impact on the Environment
422 Geography of Water Resources
521 Seminar in Physical Geography: Northern Prairie Wetlands (graduate)
521 Seminar in Physical Geography: Applied Climatology
578 Geographic Research and Writing (graduate)
399 Interdisciplinary Studies Reading Group: Ecological Perspectives on the Settling of the American West: People, Bison, Water, and Land (faculty co-facilitator)

Clark University:

021 Introduction to Physical Geography: Weather, Climate and Vegetation
115 Hydrology
120 Physical Environment of Cities
122 Meteorology
122 Weather and Climate
202 Seminar in Carbon Dioxide and the Greenhouse Effect
202 Seminar in Global Climate and Human Disturbance
260 Physical Climatology

GRADUATE STUDENT SUPERVISION

Graduate Committees Chaired:

Gary Votaw, M.S., Bias in Severe Thunderstorm and Tornado Warnings Issued by the National Weather Service in the Doppler Radar Era: A Spatial-Temporal Evaluation, May 2006.

Dr. Nsalambi V. Nkongolo, M.S., Spatial Variability of Nitrous Oxide (N_2O) Emissions and Soil Properties in a Japanese Lowland Soil, December 2005.

John Menzies, M.S., A Change Detection Comparison of Deforestation in Rondônia, Brazil and Southern Bolivia Using a Satellite Image Classification (1975-1998), May 2001.

Gordon Robertson, M.S., An Examination of Landscape History of the Northwoods: Human Management Effects on the Landscape at Itasca State Park, Minnesota, May 2000.

Christopher Atkinson, M.S., Wave-Transported Boulders Imbricated Near Marquette, Michigan, as Indicators of Past Lake Superior Storm Activity, May 2000.

Carl Dabols, M.S., A Comparison of Objective and Subjective Approaches to Temporal Synoptic Clustering: A Case Study of the Minneapolis-St. Paul Urban Heat Island, December 1997.

Nancy Godon, M.S., A Climatology of Blowing Dust Occurrences for Fargo, North Dakota: 1848-1993, May 1995.

Chris Meindl, M.S., Conflict Over Land Use in North Dakota's Prairie Pothole Region: Historic and Geographic Perspectives on Public Policy, October 1993.

Mark van Daalen, M.S., Temperature and Precipitation Climatology of the North Dakota Prairie Pothole Region, 1895-1990, August 1993.

Graduate Committees Served:

Chair, Master's Thesis Committee: Gary Votaw
Chair, Master's Thesis Committee: Dr. Nsalambi Nkongolo
Chair, Master;s Thesis Committee: John Menzies
Chair, Master's Thesis Committee: Gordon Robertson
Chair, Master's Thesis Committee: Christopher Atkinson
Chair, Master's Thesis Committee: Carl Dabols
Chair, Master's Thesis Committee: Nancy Godon
Chair, Master's Thesis Committee: Chris Meindl
Chair, Master's Thesis Committee: Mark van Daalen
Advisor, Non-Thesis Committee: Diane Holden
Advisor, Non-Thesis Committee: Kathleen Spencer
Advisor, Non-Thesis Committee: Mitch Catanzaro
Reader, Master's Thesis Committee: Charles Geraci
Reader, Master's Thesis Committee: Julie Popham, Atmospheric Science
Reader, Master's Thesis Committee: Md Shahriar Pervez
Reader, Master's Thesis Committee: Kyle Glazewski
Reader, Master's Thesis Committee: Brent Pringle
Reader, Master's Thesis Committee: Scott Dubsky
Reader, Master's Thesis Committee: David Brookman
Reader, Doctoral Dissertation Committee: Trent Hubbard, Geology
Reader, Master's Thesis Committee: Paul Sethre

Reader, Master’s Thesis Committee: Nathan Smith
Reader, Master’s Thesis Committee: Doug Ottke
Reader, Master’s Thesis Committee: Karen Butler
Reader, Master's Thesis Committee: Dion Wiseman