

Dagmar Budikova, Ph.D.

Associate Professor of Geography

Department of Geography-Geology, Illinois State University (ISU)

206 Felmley Hall of Science, Normal, IL 61790-4400

Phone: 309-438-7643, Fax: 309-438-5310, dbudiko@ilstu.edu

CURRENT APPOINTMENTS:

2010-present: Interim Associate Dean, College of Arts and Sciences, ISU

2008-present: Joint Faculty Appointment, School of Biological Sciences, ISU

2006-present: Associate Professor of Geography, Department of Geography- Geology, ISU

PAST APPOINTMENTS:

2007-2010: Founder & Director, Institute for Geospatial Analysis & Mapping (GEOMAP), ISU

2008-2009: Administrative Fellow, College of Arts and Sciences, ISU

2006-2007: Coordinator, Hydrogeology Graduate Program, ISU

2001-2005: Academic Advisor, Environmental Studies Minor Interdisciplinary Program, ISU

2000-2006: Assistant Professor of Geography, Department of Geography-Geology, ISU

EDUCATION:

2001: Ph.D. Climatology, Department of Geography, University of Calgary (UC), Canada

1994: B.Sc. (Hon.) Environmental Science and Mathematics (Minor), University of Toronto

OTHER PROFESSIONAL EXPERIENCE:

Jan 2000 - Aug 2000 Post-doctoral Fellow: Department of Geography, UC, Canada

Sep 1997 – Dec 1997 Graduate Teaching Fellow: Department of Geography, UC, Canada

Sep 1995 – Apr 1998 Graduate Research Assistant: Department of Geography, UC, Canada

Sep 1994 – Apr 1997 Teaching Assistant: Department of Geography, UC, Canada

RESEARCH INTERESTS:

Physical Climatology: Interannual and decadal climate variability (ENSO, PDO, NAO/AO); hydroclimatology; climate change; Arctic climatology; North American climates; Applied GIS

TEACHING EXPERIENCE:

ISU: Typical teaching load: 3: 2

Earth's Dynamic Weather (2000-present)

Social Science Reasoning Using Statistics (2000-present)

Quantitative Methods in Geography I (2008)

Statistics for Geologists (2000-present)

Geographic Information Systems Applications (2000-2007)

Climate and Global Environmental Change (2006-present)

Quantitative Methods in Geography II (2000-present)

Applied Climatology (2009)

UC: Instructor: Weather & Climate (1997)

Teaching Assistant: Physical Geography, Weather & Climate, Statistics (1994 – 1997)

RESEARCH GRANTS, CONTRACTS AND FELLOWSHIPS:

| Year of Tenure | Award |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2010 | Principal Investigator (PI) – Developing GIS zoning geodatabases for Logan County, Illinois (\$4,477). |
| 2009 | Co-PI - Central Illinois Workforce Collaborative. Economic Development Council of the Bloomington-Normal Area. With Brenda Jeffers, Mennonite College of Nursing \$10,000. |
| 2008-2009 | PI – Developing a digital database of the ISU campus. ISU Facilities Management. Phase II. (\$18,000). |
| 2008 | PI – Introduction to GIS and Census Data Mapping. Summer Faculty Professional Development Fellowship. Awarded by the Faculty Excellence Initiative, Office of the Provost, Illinois State University. (\$5,000). |
| 2007-2008 | PI – Arctic Cryosphere and US precipitation Regimes. ISU College of Arts and Sciences Faculty Research Award. (\$3,000) |
| 2006 | College of Arts and Science 2006 International Travel Grant for travel to Brisbane, Australia. ISU. (\$500) |
| 2006-2007 | PI – Aging in Place: East Central Illinois Area Agency on Aging (ECIAAA). Phase III. ISU. (\$11,450) |
| 2006 | AAG-NSF Travel Grant to the 31 st International Geographical Union Congress in Brisbane, Australia. ISU (\$1,750) |
| 2006 | PI – Developing a digital database of ISU campus. ISU Facilities Management. Phase I. (\$5,280) |
| 2006 | PI – Aging in Place: East Central Illinois Area Agency on Aging (ECIAAA). Phase II. ISU. (\$14,915) |
| 2005 | PI – Aging in Place: East Central Illinois Area Agency on Aging (ECIAAA). Phase I. ISU. (\$6,000) |
| 2004 | AAG-NSF Travel Grant to the 30th International Geographical Congress in Glasgow, Scotland. ISU. (\$1,500) |
| 2004 | Glasgow Travel Grant – A competitive grant awarded by the International Geographic Union (IGU) for the 2004 IGU Congress in Glasgow, Scotland. ISU. (\$516) |
| 2004 | PI – A geostatistical analysis of the Mount Simon formation in and around the Manlove gas storage field, Champaign County, Illinois (ISGS). ISU. (\$18,000) |
| 2003-04 | PI – Geostatistical analysis of the occurrence, productivity and future potential of oil fields in Illinois. ISGS. ISU. (\$6,000). |
| 2003 | Co-PI - GIS Approach for Play Portfolios to Improve Oil Production in the Illinois Basin. ISGS. (PI – Robert Nelson – Geography-Geology, ISU). ISU. (\$5,000). |
| 2001-03 | Co-PI - McLean County Radon Awareness Program. Department of Nuclear Safety, Illinois (PI – Marilyn Morrow – Health Sciences, ISU). ISU. (\$28,705). |
| 2002-03 | Illinois State University Pre-tenure Faculty Initiative Grant. ISU. (\$2,500). |
| 2001-02 | Illinois State University New Faculty Initiative Grant. ISU. (\$2,500). |
| 2000 | Post-Doctoral Fellowship (January – August). UC. (\$4,500). |
| 1999 | Female Doctoral Special Opportunity Grant in the Sciences. UC. (\$3,000). |
| 1998 | University of Calgary Dean’s Honorary Scholarship. UC. (\$15,000). |
| 1997-98 | Dr. Andrew Thompson Post-graduate Scholarship in Atmospheric Science. UC. (\$34,800). |
| 1997 | Graduate Teaching Fellowship. UC. (\$4,700). |
| 1995-96 | Graduate Research Scholarship. UC. (\$7,800). |
| 1996 | University of Calgary Tuition Scholarship. UC. (\$3,077). |
| 1996 | Department of Geography graduate award for excellence in studentship. UC. (\$2,500). |
| 1996 | Post-graduate Scholarship in Meteorology and Atmospheric Sciences. (\$17,400). |

PUBLICATIONS: (* indicates graduate student; ** indicates an undergraduate student participant)

- Strope, SA*, and **Budikova, D.** Hydrology of the 2008 summer floods across the U.S. Midwest. *Physical Geography*. (In review).
- Budikova, D.** (2010). Arctic sea ice and climate. In *Encyclopedia of Earth*. Eds. Cutler J. Cleveland. Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment. First published on August 3, 2010.
- Budikova, D.**, Coleman, JSM, Strope, SA*, and A. Austin*. (2010). Hydroclimatology of the 2008 summer U.S. Midwest floods. *Water Resources Research*. Doi: 10.1029/2010WR009206.
- Coleman, JSM, and **Budikova, D.** (2010). Atmospheric aspects of the 2008 Midwest floods: A Repeat of 1993? *International Journal of Climatology*. **30**: 1645–1667.
- Budikova, D.** (2009). Arctic's role in the global atmospheric circulation – A Review. *Global and Planetary Change*. **68**: 149-163.
- Budikova, D.** (2008). Impact of the Arctic Oscillation on U.S. Precipitation during ENSO Winters. *Climate Research*. **37**: 3-16.
- Budikova, D.** (2006). Albedo. In *Encyclopedia of Earth*. Eds. Cutler J. Cleveland. Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment. First published on December 16, 2006.
- Budikova, D.** (2005). Interaction between the Pacific Decadal and Arctic Oscillations: Implications on winter surface air temperature across the United States. *Climate Research*. **29**: 199-208.
- Budikova, D.**, and L. C. Nkemdirim. (2005). Relative changes in consistency of winter surface air temperature during ENSO events across western Canada. *The Canadian Geographer*. **49**: 81-99.
- Budikova, D.**, and L. C. Nkemdirim. (2003). Annual cycle of El Niño teleconnections across western Canada. *Physical Geography*. **24**: 1-25.
- Nkemdirim, L. C., and **Budikova, D.** (2001). Trends in sea level pressure across western Canada. *Journal of Geophysical Research: Atmospheres*. **106**. No. **D11**. p. 11,801- 11,815.
- Nkemdirim, L. C., and **Budikova, D.** (1996). The El Niño-Southern Oscillation has a truly global impact: A preliminary report on the ENSO project of the Commission on Climatology. A Scientific Article. *Bulletin of the International Geographical Union*. **46**: 15-21.

EDITED TECHNICAL REPORTS & ATLASES: (* indicates graduate student; ** indicates an undergraduate student participant)

- Lax, S.*, Dougherty-O'Hara, M.**, and **Budikova, D.** (2007). An online atlas of Central Illinois' aging population. M. O'Donnell, ECIAAA (ed.). Bloomington, IL. Published by GEOMAP at www.lilt.ilstu.edu/aipatlas. Atlas contains over 500 thematic maps and spatial models depicting the spatial distribution of aging population across East Central Illinois.
- Budikova, D.**, S. Lax*, and M. O'Donnell. (2007). Aging in Place Atlas. Demography of Aging in East Central Illinois. Online Atlas Manual. Bloomington, Illinois. 16 pp.
- Lax, S*, and **D. Budikova** (2006). Aging in place - Community planning and development for the aging population of Macon County, IL. Michael O'Donnell, Director ECIAAA (ed.) A research report prepared for the East Central Illinois Area Agency on Aging (ECIAAA). Bloomington, Illinois.
- Budikova, D.**, and S. Lax*. (2005). Aging in place - Community planning and development for the aging population of McLean County, IL. Research report #1. M. O'Donnell (ed.). ECIAAA, Bloomington, IL. 96 pp.
- Nkemdirim, L., **Budikova, D.**, and Guthrie, J. (1998). Statistical analysis of rainfall intensity in Calgary. Calgary. A City of Calgary Publication. 67 pp.
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EDITED ABSTRACTS AND PROCEEDINGS:

- Nkemdirim, L.C., and **Budikova, D.** (2003). Wintertime teleconnections from equatorial Pacific to western Canada during El Niño and their impact on climate variability. *Geophysical Research Abstracts*. 5: 14,298.
- Nkemdirim, L. C., and **Budikova, D.** (1999). The Arctic High over Canada may be Loosing Strength. *Proceedings of the International Conference on Climate Change and Variability. Past, Present, and Future*. Mikami, T. (ed.) International Geographical Union. Commission on Climatology. Japan Science Council. Metropolitan University. Tokyo. Japan. September 1999. 237-243.

PROFESSIONAL WORKSHOPS:

- Budikova, D.**, and Knapp, G.E. Community Mapping in GIS. A 1-day workshop for ISU faculty and staff. Illinois State University. March 2009.
- Budikova, D.** Guidance on Choosing a Sampling Design for Environmental Data Collection for Use in Developing a Quality Assurance Project Plan. EPA QA/G-5S. Designed as a two-day workshop. Illinois State Environmental Protection Agency. Springfield. Illinois. Oct. 2004. Jan. 2007.
- Budikova, D.** Introduction to Statistics for Environmental Scientists. Designed as a 4-day workshop. Illinois State Environmental Protection Agency. Springfield. Illinois. January 2007. Offered 2-day workshop in sampling statistics to IEPA employees. July & August 2005.
- Bloom, A., and **Budikova, D.** "Natural Disasters – Where are they? Exploring natural disasters through GIS technology". Workshop organized for ISU's Expanding Your Horizons through Math, Science and Technology, April 2, 2005.

BOOK REVIEWS:

- Budikova, D.** (2005). Climate Atlas of Illinois by Changnon, S. A., Angel, J. R., Kunkel, K. E., and Lehmann, C. M. B. *Bulletin of the Illinois Geographical Society*. 47: 32-34.

OTHER CONTRIBUTIONS:

- Budikova, D.** IGC – UK 2004 GLASGOW : A report on discussions, sessions and meetings. AAG Human Dimensions of Global Change Specialty Group Newsletter. Spring 2005.
- Budikova, D.**, and Smith, R. (1997). Introduction to Weather and Climate: Laboratory Manual. University of Calgary Publication. 52 pp.

THESES:

- Budikova, D.** (2001). El Niño and the Southern Oscillation. Surface Air Temperature Implications for Western Canada. Ph.D. Dissertation. Department of Geography. University of Calgary. 236 p.
- Budikova, D.** (1994). Recent climatic changes in the Great Lakes region as inferred from ice cover records. An Undergraduate Thesis in Environmental Science. The University of Toronto.

PROFESSIONAL PRESENTATIONS: (* indicates graduate student; ** indicates an undergraduate student participant)

- Coleman, J., Budikova, D., Strobe A*, and Austin, A*. (2010). Hydroclimatic Aspects of the 2008 Summer Midwest Floods: Distribution and Evolution. Annual Meeting of the AAG, Washington, DC. April 14-18, 2010.
- Ford, WT**, **Budikova, D.** (2009). Glacier Retreat in Glacier National Park, Montana: a climate-based review. West-Lakes regional meeting of the AAG. St. Paul, MN. October 30-31, 2009.
- Strobe, S*, **Budikova, D.** (2009). Midwestern Hydrology Associated with the 2008 Warm-Season Floods. West-Lakes regional meeting of the AAG. St. Paul, MN. October 30-31, 2009.
- Budikova, D.**, and Coleman, J. (2009). The 2008 Summer Midwest Floods Part I: Geography, Evolution, and Hydroclimatology. Annual Meeting of the Association of American Geographers. Las Vegas. March 21-27.

- Coleman, J., and **Budikova, D.** (2009). The 2008 Summer Midwest Floods Part II: Synoptic Climatology and Teleconnections. Annual Meeting of the Association of American Geographers. Las Vegas. March 21-27.
- Budikova, D.** (2009). Impact of the Arctic Oscillation on ENSO-precipitation teleconnections across the eastern USA. 89th Annual Meeting of the American Meteorological Society. 21st Conference on Climate Variability and Change. 11-15 January 2009 in Phoenix, AZ.
- Strope, S.*, Knapp, G.E., **Budikova, D.** (2008). The Geography, Chronology, and Hydrology of the 2008 Midwest Flood Events. West Lakes Division of the Associate of American Geographers. November 13-15, Bloomington, Indiana.
- Budikova, D.**, and Coleman, J. (2008). Atmospheric Characteristics of the 2008 Midwest Floods. West Lakes Division of the Association of American Geographers. November 13-15, Bloomington, Indiana.
- Budikova, D.** (2008). The Aging in Place Atlas of East Central Illinois. The 2008 Annual Fall Conference of the Illinois Geographic Information Systems Association (ILGISA). Lombard, Illinois. November 5-6.
- Earls, J.**, and **Budikova, D.** (2008). Exploration of Data Mining Techniques Applied to Geophysical Data. Undergraduate Research Symposium. Illinois State University. Spring 2008.
- Budikova, D.** (2006) Statistical Climatology. Department of Physics. Illinois State University. November. (Invited).
- Budikova, D.** (2006) Interaction between teleconnection patterns and associated impact on U.S. winter climate. Invited presentation for the Central Illinois Chapter of the American Meteorological Society. November. (Invited).
- Budikova, D.**, S. Lax*. (2006) The geography of high-risk aging population in McLean County, Illinois. Macon, Vermilion, and Champaign Counties. Retreat of the East Central Illinois Area Agency on Aging, Champaign, Illinois. November 2. Decatur. (Invited).
- Budikova, D.** (2006) Impact of the Northern Annular Mode on ENSO-related Precipitation Regimes. Joint Annual Meeting of the AAG Great Plains/Rocky Mountain Division and the West Lakes Division. October.
- Budikova, D.** (2006) Impact of the Pacific Decadal Oscillation on relationships between temperature and the Arctic Oscillation in the USA in winter. International Geographical Congress Meeting. Brisbane. Australia. July.
- Lax, S.*, and **Budikova, D.** (2006) Aging in Place: Demography of Aging across McLean County, Illinois. Annual meeting of the Association of American Geographers, Chicago. March.
- Lax, S.*, and **Budikova, D.** (2006) Aging in Place: Demography of Aging across McLean County, Illinois. Annual meeting of the Illinois Geographical Society. Glen Ellyn, Illinois. April.
- Horrie, M.**, and **Budikova, D.** (2006) Aging in Place: A Study of Vermilion County, Illinois, Using GIS. Annual meeting of the Illinois Geographical Society. Glen Ellyn, Illinois. April.
- Lax, S.*, and **D. Budikova.** (2006). Aging in Place: Demography of Aging across McLean County Illinois. Annual Conference of the Association of American Geographers. Chicago. USA. March.
- LaFollette, S., and **Budikova, D.** (2005). Using Geographic Information Systems (GIS) to analyze radon education in McLean County, IL. American Public Health Association Annual Meeting & Exposition. December 10-14, 2005. Philadelphia. PA.
- Budikova, D.**, S. Lax*. (2005). The geography of high-risk aging population in McLean County, Illinois. Retreat of the East Central Illinois Area Agency on Aging, Champaign, Illinois, November 2, 2005. Champaign, Illinois, November 2, 2005.
- Frederick, L**, **Budikova, D.**, Waterstraat, F., and Miller P. (2005) Data analysis of ILHIMA annual meeting attendees. ILHIMA Annual Meeting, April. 2005.
- Budikova, D.** (2005). Impact of the PDO on relationships between U.S. temperature and Arctic Oscillation. Annual Conference of the Association of American Geographers. Denver. USA. April 2005.

- Budikova, D.** (2004). Variability of teleconnections from the equatorial Pacific to North America over the past century. Congress of the International Geographical Union, Glasgow UK, August 2004.
- Rittenhouse, S.*, Keefer, D., and **Budikova, D.** (2004). 3-D Mapping of Discontinuous Shale Beds in Manlove Field. Meeting of the Society of Petroleum Engineers. Bloomington, IL, March 2004.
- Budikova, D.** (2004). Interdecadal variability of the strength of ENSO teleconnections with precipitation across central United States in winter. Annual Conference of the Association of American Geographers. Philadelphia. USA. March 2004.
- Nkemdirim, L. C., and **Budikova, D.** (2003). Wintertime teleconnections from equatorial Pacific to western Canada during El Niño and their impact on climate variability. Joint Assembly of the European Geophysical Society, American Geophysical Union and European Union of Geosciences (EGS-AGU-EUG), Nice, France, 06 - 11 April 2003.
- Budikova, D.** (2002). Annual Cycle of El Niño Teleconnections Across Western Canada. West Lakes Regional Conference of the Association of American Geographers. Minneapolis, MN, Nov. 2002.
- Hart, K.*, **Budikova, D.**, Malone, D., and Stiff, B. (2002). Geology, Aquifer Sensitivity and Proximity Analysis of Possible Contamination Sites of the Ottawa 7.5' Quadrangle, LaSalle County, Illinois. Annual GSA Meeting in Denver, Colorado, November 2002.
- Budikova, D.** (2002). Variability in Surface Air Temperature Signals Across Western Canada During ENSO Conditions in Winter. Annual Conference of the Association of American Geographers. Los Angeles. USA. March 2002.
- Budikova, D.** (2001). The Science of ENSO – What was, what is, and what’s to come? Geography-Geology Colloquium series. ISU. March 2001
- Budikova, D.** (2001). Association between tropical Pacific conditions and temperature records across Western Canada during El Niño episodes. Annual Conference of the Association of American Geographers. New York. New York. USA. February 2001.
- Budikova, D.** (2000). GIS - a practical tool in climate science. Annual Teacher's Conference. ISU.
- Nkemdirim, L. C., and **Budikova, D.** (1999). Climate trends in western Canada. 1885-1997. International Conference on Climate Change and Variability. Japan Science Council. Metropolitan University. Tokyo. Japan. September 1999.
- Budikova, D.** (1999). Canadian surface and upper-air climate database – establishment and applications. 36th Annual Department of Geography Conference. Department of Geography. University of Calgary. Calgary. Alberta. Canada. March 1999. Received honors for best research presentation.
- Budikova, D.**, and Nkemdirim, L. (1999). Towards a better understanding of El Niño signal in surface temperature and precipitation records in western Canada. Annual Conference of the Association of American Geographers. Honolulu. Hawaii. USA. March 1999.
- Budikova, D.**, and Nkemdirim, L. (1999). El Niño signal in surface temperature records in Prairie Provinces of Canada. Poster presentation. Annual Congress of the Canadian Meteorological and Oceanographic Society. Montreal. Quebec. Canada. May 1999.
- Budikova, D.** (1999). Global impacts of ENSO. Department of Geography. University of Calgary. Calgary. Alberta. Canada. 1996.

GRADUATE COMMITTEE MEMBERSHIP/SUPERVISION:

Hydrogeology Graduate Program M.S. (ISU) – 10 students (9 completed; 2 as primary advisor see below)
 Sarah Rittenhouse (2003-2005) – GIS/Geostatistics –Chevron Inc., Houston.
 Shane Strobe (2008-2010) – Hydrology/Hydroclimatology – Delta Environmental Inc., Kansas

Biological Sciences M.S. (ISU) – 1 student (completed)
 Politics and Government M.S. (ISU) 1 student (completed)

ADMINISTRATIVE EXPERIENCE IN THE ACADEME:

2010-2012: Interim Senior Associate Dean, College of Arts and Sciences, ISU.

Major areas of responsibility include Research, IT, and Facilities.

College representative at:

- College Research Council (CRC)
- University Research Council (URC)
- Tech Council
- AFAC (Facilities Council)
- College Council
- Council of Chairs

2007-2010: Founder and Director, Institute for Geospatial Analysis & Mapping (GEOMAP), ISU.

- Strategic planning
- Grant and Contract Management
- Personnel management (students and staff)
- Coordinate curricular development in GIScience on ISU campus
- GIS training – design and administer professional workshops
- Development and management of GEOMAP website (geomap.ilstu.edu)
- Organize outreach activities (promotion of geography and GIScience)
- Friend and fund raising

2008-2009: Administrative Fellow, College of Arts and Sciences, ISU.

- Program reviews (Chemistry, Physics, and Geology)
- Research Proposal Review Committee (Evaluate nominees for research awards and nominations for Outstanding University Researcher, Outstanding College Researcher, Research Initiative Award)

Personnel Issues:

Faculty

- Participant in the Faculty Mentoring Program
- Panelist at the annual Newly-Tenured Faculty Forum
- CCAS Webinar for Busy Deans: Higher Education Law & the Faculty – a 3-part series conference that discusses laws pertinent to higher-education faculty

Staff

- CAS-IT Search Committee Member (Fall & Spring)

External Relations:

- Helping improve our web presence by conducting an assessment of other college websites around the country

- Emeritus luncheon

- Alumni Day Reception

General Administration

- Council of chairs meetings

- College of Arts and Sciences Strategic Planning Committee

2006-2007: Coordinator, Hydrogeology Graduate Program, ISU.

- Liaison between ISU Graduate School and Hydrogeology

- Student recruitment

- Admissions

- Awarding of Graduate Student Assistantships & scholarships

- Outreach

2001-2005: *Academic Advisor, Environmental Studies Interdisciplinary Minor Program, ISU.*

Worked with other on-campus constituencies to maintain and revise curricula (Biological Science (CAS), Philosophy (CAS), Health Sciences (CAST), and Agriculture (CAST))

Student recruitment

Student advising

Website development and program outreach

OTHER EXPERIENCE IN UNIVERSITY GOVERNANCE:

Department of Geography-Geology, ISU.

Acting Chair, Summer (2008)

Chair of faculty hiring committee (2008 - Geology, 2009 - Geography)

Member, faculty hiring committee (2001 (2), 2003, 2005, 2006, 2007, 2008)

Member, Department chair search committee (2000)

Chair review committee (2005)

Department Faculty Status Review Committee (DFSC) (2006, 2007, 2009, 2010)

Budget committee (2003, 2004, 2005)

Facilities, Equipment and Technology (2002)

INTASC (2002)

Research Committee (2001, 2002, 2003, 2004, 2005, 2009, 2010)

Advancement Committee (2000, 2001, 2006, 2007)

Curriculum Committee (ongoing)

Principal writer of proposal for Graduate Program in Environmental Sustainability & Global Change (2008)

Helped write Geography program review (2007)

College of Arts and Sciences, ISU.

College Curriculum Committee (2003, 2004, 2005)

Energy Program of Excellence (PoE) Advisory Committee (2007, 2008)

University-level service, ISU.

FORUM Committee (2000-2002)

Academic Senate (2005-2008)

Rules Committee

Academic Affairs Committee

PROFESSIONAL SERVICE TO DISCIPLINE:

Association of American Geographers

Council Member, West Lakes Division Regional Councilor (2009-2012)

Climate Specialty Group Board Member

Young Scholar Director (2003-2005)

Honor's Director (2005-2007)

Department representative to the ALIGNED project (2010-present)

Editorship Experience

Editor and contributing author: Encyclopedia of Earth (2006-present)

Other Activities

Manuscript Reviewer

International Journal of Climatology
Climate Research
Bulletin of the Illinois Geographical Society
Geophysical Research Letters

Grant Proposal Reviewer: National Science Foundation

Book Reviewer: *Bulletin of the Illinois Geographical Society*

Textbook Reviewer: Introduction to Climatology (Vega and Rohli)

Statistics: The art and science of learning from data (Agresti and Franklin).

Praxis Earth Space Science-General Science Writer: 2004-2006

Session organizer: 2002: West Lakes AAG, Minneapolis, November 2002: "Current Issues in Climate Variability and Change

Session organizer: 2006: Joint Annual Meeting of the AAG Great Plains/Rocky Mountain Division and the West Lakes Division. October 2006. US Climate.

Session organizer: 2006, 2007: Student paper competition of the Climate Specialty Group of the AAG at the Annual meeting of the AAG.

PROFESSIONAL DEVELOPMENT:

- 2008 Attended Annual Healthy Departments Workshop organized by the AAG
"These workshops bring together current and future department leaders with geographers who are administrators from across the country. The focushas been on aligning department goals with those of their institutions, understanding how effective ways to position geography departments within institutions, and identifying challenges and opportunities for geography in the context of the current political and budgetary climate" (AAG 2009).

MEDIA:

- 2008 Interviewed by TV Channel 10 about hurricane Gustaf (September); Vidette interview on flash flooding and hurricane Ike (September)
- 2007 Interviewed several times by the Daily Vidette regarding GEOMAP and climatology
- 2005 Interviewed by the Daily Vidette on Hurricanes and climate change. (September).
- 2002 Interviewed by Daily Vidette regarding the state of the Environmental Studies Program (November)
- 2002 Interviewed by Daily Vidette regarding ENSO conditions in Illinois (April)
- 2002 Interview by Daily Vidette on state of current winter conditions (February)
- 1998 Interviewed with a local television station regarding the theory of ENSO and seasonal weather forecasts for winter conditions over Alberta
- 1998 Interviewed with the Calgary Herald and Alberta Farmer news publications concerning climate change issues in Canada; El Niño 1997 and Alberta weather

PROFESSIONAL MEMBERSHIPS:

Association of American Geographers (AAG)

Climate Specialty Group

Human Dimensions of Global Change Specialty Group

American Meteorological Society (AMS)

American Meteorological Society – Illinois Chapter

American Geophysical Union (AGU)

American Association for the Advancement of Science (AAAS)