Gregory S. Vandeberg

Curriculum Vitae

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RESEARCH INTERESTS

Fluvial and glacial geomorphology
Heavy metals in the environment

Geographic information systems and remote sensing Disturbed land reclamation

EDUCATION

Ph.D., Geography, Kansas State University, Manhattan. KS (2005).

Dissertation Title: "Distribution of Trace Elements in Floodplain Soils and Sediments of the Upper Blackfoot River, Montana." Advisor: C.W. Martin

M.S., Earth Science (Geology), Montana State University, Bozeman, MT (1993).

Thesis Title: "Temporal and Spatial Relationships of Late Quaternary Valley and Piedmont Glaciers in Tom Miner Basin, Montana." Advisor: W.W. Locke

B.A., Geology, College of St. Thomas, St. Paul, MN (1985).

APPOINTMENTS

2005-Present Associate Member, Graduate Faculty, University of North Dakota, Grand Forks, ND.

2004-Present Assistant Professor of Geography, Department of Geography, University of North Dakota, Grand Forks, ND.

2003-2004 Research Scientist, Reclamation Research Unit, Department of Land Resources and Environmental Sciences, Montana State University, Bozeman, MT.

2003 Graduate Research Assistant, Department of Geography, Kansas State University, Manhattan, KS.

2000-2003 Graduate Teaching Assistant, Department of Geography, Kansas State University, Manhattan, KS.

1996-2002 Research Associate/Reclamation Specialist, Reclamation

Research Unit, Department of Land Resources and Environmental Sciences, Montana State University, Bozeman, MT.

1995 Research Assistant, Reclamation Research Unit, Department of Animal and Range Sciences, Montana State University, Bozeman, MT.

1990-1995 Environmental Specialist, Leaking Underground Storage Tank Program, Montana Department of Environmental Quality (Formerly Department of Health and Environmental Sciences), Helena, MT.

1987-1989 Graduate Teaching Assistant, Department of Earth Sciences, Montana State University, Bozeman, MT.

1986 Geologist and Drill Crew Chief, Allied Test Drilling, Eagan, MN.

TEACHING

Courses

* Global Physical Environment (GEOG 121 at UND)

* GPS Applications and Theory (GEOG 378 at UND)

* Great Plains Physiography (GEOG 421/521 at UND)

* Introduction to Geographic Information Systems (GEOG 474 at UND)

* Introduction to Geographic Information Systems, Online (Geog 474 at UND)

* Directed Studies in Geographical Problems - Field Hydrology (GEOG 494 and GEOL 491 at UND, co-taught with Phil Gerla)

* Geography Seminar, Advanced Environmental Geography (GEOG 541 at UND)

* Advanced Techniques in Geographic Information Systems (GEOG 574 at UND)

* Field Methods and Analysis in Geography (GEOG 576 at UND)

* Spatial Statistics, Directed Studies in Geographical Problems (GEOG 591 at UND)

* Geospatial Technologies for Implementing National Geography Standards Workshop (GEOG 900 at UND)

* Environmental Geography I and II (GEOG 221 and 222 at Kansas State University)

* Introduction to the Earth's Interior Lab (Montana State University)

* Introduction to the Earth's Surface Lab (Montana State University)

* Introduction to Physical Geography Lab (Montana State University)

Graduate Research Advised at UND

Completed

2007 Julie Gallagher, M.S. 2007. "Application of Remote Sensing LiDAR Data for the Detection of Cultural Resources in a Forested Environment: An Example from Isle Royale National Park, Michigan" Thesis Committee Chair.

2006 Joshua J. Johnston, M.S. 2006. "Geographic Variables Affecting Bald Eagle (Haliaeetus Leucocephalus) Nest Locations in the Red River Valley of North Dakota and Minnesota." Thesis Committee Chair.

In Progress

-Brandee Pang Brookman, M.S. Geography, Thesis Committee Chair (2005-present).

-James Lindstrom, M.S. Geography, Thesis Committee Chair (2006-present).

-Darrel Nucech, M.S. Geography, Independent Study Advisor (2006-present).

-Mark Blore, M.S. Geography, Thesis Committee Chair (2007-present).

Graduate Committees

Completed

2007 Scott Abel, M.S. Geography.

Abby Franklin, M.S. Geology.

Lisa Kuchy, M.S. Geography.

Kristofer Parson, M.S. Geography.

In Progress

-Blake McCann, Ph.D. Biology.

Teaching Workshops Presented

Workshop Presenter (June 13 and 20, 2007). With Dakota Science Center at Lake Region State College, Devils Lake, ND. Title: Geospatial Technologies for Implementing National Geography Standards Workshop (Geog 900).

Workshop Presenter (October 25, 2006). North Dakota GIS Users Conference, Bismarck, ND. Title: "Introduction to ArcPad: Mobile GIS."

Workshop Presenter (June 14 and 21, 2006). With Dakota Science Center at Mayville State University, Mayville, ND. Title: Geospatial Technologies for Implementing National Geography Standards Workshop (Geog 900).

Workshop Presenter (October 26, 2005). North Dakota GIS Users Conference,

Bismarck, ND. Title: "Introduction to Remote Sensing."

Workshop Presenter (April 25, 2005). National States Geographic Information Council (NSGIC) Geospatial Workshop, Bismarck, ND. Title: "Introduction to GIS."

Teaching Workshops Attended

Alice T. Clark Scholars Mentoring Program - University of North Dakota, Grand Forks, ND

(Fall 2004 to 2005).

Geography Faculty Development Alliance - University of Colorado, Boulder, CO

(Workshop 2, June 19-26, 2004).

RESEARCH TOOLS

ArcGIS ArcView
ERDAS Imagine

Microsoft Office WordPerfect Office
SPSS

Neutron soil moisture probe ICP-AES
GPS (Garmin)

Smart Podium

PUBLICATIONS

Refereed Publications

2007 Vandeberg, Gregory S. (in press). Climatic change and fluvial systems. In Climatic Change and Variations: A Primer for Teachers, ed. W.A. Dando, 93-102. Washington, D.C.: National Council for Geographic Education.

2006 Vandeberg, G.S., C.W. Martin and G.M. Pierzynski. 2006. Modeling of the distribution of trace elements in floodplain soils of the upper Blackfoot River, Montana (extended abstract). In Proceedings of the 10th Billings Land Reclamation Symposium, Billings, MT, June 2006: 749-750.

2005 Neuman, D.R., G.S. Vandeberg, P.B. Blicker, S.R. Jennings and K. Ford. 2005.

Phytostabilization of acid metalliferous mine tailings at the Keating Site

in Montana. In Proceedings of the Annual Meeting of the American Society of Mining and Reclamation, Breckenridge, CO, June 2005: 791-806.

2003 Vandeberg, Gregory S. 2003. Identification and characterization of mining waste using Landsat Thematic Mapper imagery, Cherokee County, Kansas. In Proceedings of the Annual Meeting of the American Society of Mining and Reclamation and the Billings Symposium, Billings, MT, June 2003: 1329-1347.

2000 Vandeberg, Gregory S. and Douglas J. Dollhopf. 2000. Plant growth on saline and acidic(noncontaminated) borrow soils, I. borrow soil plant growth demonstration for Opportunity Ponds coversoil. Reclamation Research Unit Publication No. 2002. Bozeman, MT: Reclamation Research Unit, Montana State University, 89p.

Vandeberg, G.S., D.J. Dollhopf, J.D. Goering and D.R. Neuman. 2000. Evaluation of ferric oxide for adsorption of arsenic leaching from a mine waste repository: In Proceedings of the Billings Land Reclamation Symposium, Billings, MT, June 2000: 360-371.

1999 Dollhopf, D.J., J.D. Goering, G.S. Vandeberg and D.R. Neuman. 1999. Evaluation of ferric oxide for adsorption of arsenic leaching from a mine waste repository, RRU Publication No. 9901, Bozeman, MT: Reclamation Research Unit, Montana State University.

1998 Dollhopf, D.J., G.S. Vandeberg, D.R. Neuman and S.R. Jennings. 1998. Determination of soil amendments and plant species for lands adjacent to repositories in the Old Works/East Anaconda Development Area, RRU Publication No. 98-03, Bozeman, MT: Reclamation Research Unit, Montana State University.

1997 Reclamation Research Unit. 1997. ARTS Phase IV, Anaconda revegetation treatability study, monitoring and evaluation, RRU Publication No. 9703, v. 1 and 2, Bozeman, MT: Reclamation Research Unit, Montana State University.

Reports

2007 Vandeberg, Gregory S. 2007. "Characterization of Water and Sediment Quality of Lake Alice National Wildlife Refuge, North Dakota". Report prepared for U.S.F.W.S. Devils Lake, ND. Grand Forks, ND: Department of Geography.

Nucech, Darrel and Gregory S. Vandeberg. 2007. "Identification of Bald Eagle Nest Locations in the Red River Valley of North Dakota and Minnesota, Final North Dakota View Grant Report."

2006 Johnston, Joshua J. and Gregory S. Vandeberg. 2006. "Geographic Variables Affecting Bald Eagle (Haliaeetus Leucocephalus) Nest Locations In the Red River Valley of North Dakota and Minnesota, Final North Dakota View Grant Report."

2003 Reclamation Research Unit. 2003. Phase I report for phytostabilization studies at the Keating tailings site, near Radersburg, Montana, prepared for the Bureau of Land Management, U.S. Department of the Interior. Bozeman, MT: Reclamation Research Unit, Montana State University.

1998 Maxim Technologies, Interfluve, Inc., Reclamation Research Unit and Bighorn Environmental. 1998. Preliminary final design report, remedial action Subarea 1, Reach A, Streamside Tailings Operable Unit, Silverbow Creek/Butte area NPL site, report prepared for Montana Department of Environmental Quality and U.S. Environmental Protection Agency Montana Office, Helena, MT.

1997 Dollhopf, D.J. and G.S.Vandeberg. 1997. Testing of deep plowing as a reclamation option for the Drag Strip area, Old Works Operable Unit, Anaconda, Montana, report prepared for the Montana Department of Environmental Quality, Helena, MT and the U.S. Environmental Protection Agency, Montana Office, Helena, MT. Bozeman, MT: Reclamation Research Unit, Montana State University.

Reclamation Research Unit. 1997. Plant growth response on amended soils located adjacent torepositories in the Old Works Operable Unit, Anaconda, Montana, report prepared for the Montana Department of Environmental Quality, Helena, MT. Bozeman, MT: Reclamation Research Unit, Montana State University.

Reclamation Research Unit. 1997. Identification of potential remediation designs and data requirements for selected areas in the Old Works, Anaconda, MT, report prepared for the Montana Department of Environmental Quality, Helena, and the U.S. Environmental Protection Agency, Helena, MT. Bozeman, MT: Reclamation Research Unit, Montana State University.

Field Trip Guides

2007 Vandeberg, Gregory and Douglas Munski. 2007. "Graduate Student Field Trip" Department of Geography, University of North Dakota, September 8.

2006 Vandeberg, G.S., W. Wetherholt, T. Farni, P.E. Todhunter and D.C. Munski. 2006. "Investigating the Prairie Pothole Region of North Central North Dakota: Field Trip Guide." Annual Meeting of the Prairie Division of the Association of Canadian Geographers, Rugby, ND, September 29-October 1. 11p.

Vandeberg, Gregory and Douglas Munski. 2006. "Graduate Student Field Trip" Department of Geography, University of North Dakota, August 26. 6p.

2005 Vandeberg, Gregory, Douglas Munski and Juan Pedraza. 2005. "New Student Field Trip", Department of Geography, University of North Dakota, August 27. 36p.

Curriculum Materials

2007 Vandeberg, G.S. and J.J. Johnston. 2007. Introduction to Geographic Information Systems (GIS) Geog 474 Laboratory Manual. Second Edition. Grand Forks: University of North Dakota Department of Geography. 89p.

2006 Vandeberg, G.S. and J.J. Johnston. 2006. Introduction to Geographic Information Systems(GIS) Geog 474 Laboratory Manual. Grand Forks: University of North Dakota Department of Geography. 89p.

WORK IN PROGRESS

Gregory S. Vandeberg, Cami Dixon, Sherri Anderson and Brian Vose. Temporal and Spatial Variations of Surface Water Quality in the Vicinity of Lake Alice National Wildlife Refuge, North Dakota (preparing manuscript from report submitted to USFWS).

Vandeberg, G.S., C.W. Martin and G.M. Pierzynski. "The Distribution of Heavy Metals in Floodplain Sediments of a Northern Rocky Mountain Gravel Bed Stream" to be submitted to Geomorphology (in preparation).

Vandeberg, G.S. "Historical Channel Changes of the Upper Blackfoot River, Montana"

to be submitted to Physical Geography (in preparation).

Johnston, J.J., D. Nucech and G.S. Vandeberg "Bald Eagle Nesting Habitats in the Northern Red River Valley of North Dakota and Minnesota" (in preparation).

PROFESSIONAL MEETING PRESENTATIONS

2007 Vandeberg, Gregory S. 2007. "Climatic Change and Geomorphic Processes." Paper presented at the National Council for Geographic Education Annual Meeting, Oklahoma City, OK (October 18-21).

Lindstrom, Jim C. and Gregory S. Vandeberg. 2007. "Recreation Use Characteristics of the Maah Daah Hey Trail." Poster presented at the Great Plains/Rocky Mountain Division of the Association of American Geographers Annual Meeting, Denver, CO (September 28-29).

Munski, Laura B., Gregory Vandeberg, Douglas C. Munski, William Wetherholt, and Darrel Nucech. 2007. "Diffusing and Expanding the Learning of Geospatial

Technologies for Targeted Populations in the 2006-07 Cycle of NDView Geographic Education Programming." Poster presented at the Prairie Division, Canadian Association of Geographers Annual Meeting, Weyburn, Saskatchewan (September 28-30).

Nucech, Darrel and Gregory Vandeberg. 2007. "Identification of Bald Eagle Nest Locations in the Red River Valley of North Dakota and Minnesota." North Dakota View Conference, Belcourt, ND.

Munski, Laura, Gregory Vandeberg and Douglas Munski. 2007. "Expanding Geospatial k-12 Education into North Dakota's Devils Lake Region." North Dakota View Conference, Belcourt, ND.

2006 Johnston, Josh and Gregory Vandeberg. 2006. "Geographic Variables Affecting Bald Eagle (Haliaeetus leucocephalus) Nesting in the Red River Valley of Minnesota and North Dakota." Poster presented at Great Plains/Rocky Mountain Division of the Association of American Geographers (September 21-23). (This information was also presented in oral form at the North Dakota View Conference in Fort Yates in August 2006 by G.S. Vandeberg).

Munski, Laura B., Douglas C. Munski and Gregory S. Vandeberg. 2006. "K-12 Educators Plus Geospatial Technologies Equals NDView Summer Workshop". Paper presented at 30th Annual meeting of the Prairie Division of the Canadian Association of Geographers, Rugby, ND (September 30, 2006).

G.S. Vandeberg, C.W. Martin and G.M. Pierzynski. 2006. "Modeling of the distribution of trace elements in floodplain soils of the upper Blackfoot River, Montana." Paper presented at the 10th Billings Land Reclamation Symposium, Billings, MT (June 5, 2006).

2005 Brookman, B.P., B.C. Rundquist, G.S. Vandeberg and D.A. Brookman. 2005. "Investigating Climatical Variability of Ice Jams Along the Red River of the North, North Dakota." Paper presented at the Applied Geography Conference, Washington, D.C. (November 2-5, 2005).

Vandeberg, G.S. 2005. "Reconstruction of Glacial Lake Tom Miner, a Proglacial Lake of the Northern Yellowstone Outlet Glacier, Using a Geographic Information System." Paper presented at the Annual Meeting of the Great Plains/Rocky Mountain Division of the Association of American Geographers, Laramie, WY (September 24, 2005).

Vandeberg, Gregory S., Charles W. Martin and Gary M. Pierzynski. 2005. "Trace Elements in Floodplain Soils of the Blackfoot River, Montana." Poster presented at the annual meeting of the North Dakota Soil and Water

Conservation Society, Jamestown, ND (August 10, 2005).

Neuman, D.R., G.S. Vandeberg, P.B. Blicker, S.R. Jennings and K. Ford. 2005.

"Phytostabilization of acid metalliferous mine tailings at the Keating Site in Montana." Paper presented at the Annual Meeting of the American Society of Mining and Reclamation, Breckenridge, CO (June 2005).

Vandeberg, G.S., C.W. Martin and G.M. Pierzynski. 2005. "Modeling of Heavy Metal Distribution in an Intermontane Gravel Bed Stream." Paper presented at the annual meeting of the Association of American Geographers, Denver, CO (April 8, 2005).

Pang, Brandee P., Bradley C. Rundquist, Gregory S. Vandeberg and David A. Brookman.2005. "Ice Jams Along the Red River of the North, North Dakota." Poster presented at Graduate School Scholarly Forum, University of North Dakota, Grand Forks, ND (February 22, 2005).

2004 Vandeberg, G.S., C.W. Martin and G.M. Pierzynski. 2004. "The Distribution of Heavy Metals in Floodplain Sediments of a Northern Rocky Mountain Gravel Bed Stream." Paper presented at the annual meeting of the Association of American Geographers, Philadelphia, PA (March 2004).

2003 Vandeberg, G.S., C.W. Martin and G.M. Pierzynski. 2003. "Heavy Metal Levels in Floodplain Soils of the Blackfoot River, A Tributary of the Clark Fork River, Montana." Poster presented at the Center for Riverine Science and Re-Naturalization 2003 Conference Assessing and Re-naturalizing Streams Impacted by Mining, Missoula, MT (September 25-26, 2003).

Vandeberg, G.S. 2003. "Identification and Characterization of Mining Waste Using Landsat Thematic Mapper Imagery, Cherokee County, Kansas." Paper presented at the 20th National Conference of the American Society of Mining and Reclamation and the 9th Billings Land Reclamation Symposium, Billings, MT (June 3-6, 2003).

Vandeberg, G.S., C.W. Martin and G.M. Pierzynski. 2003. "The Distribution of Heavy Metals in Floodplain Soils of the Upper Blackfoot River, Montana." Paper presented at the annual meeting of the Association of American Geographers, New Orleans, LA (March 2003).

2002 Vandeberg, G.S. 2002. "Spatial Analysis of Soil Metal Levels from Anaconda, Montana." Paper presented at the annual meeting of the Great Plains/Rocky Mountain Division of the Association of American Geographers, Missoula, MT (October 2002).

De Bres, K., K. Blake, J. Coomansingh, P. Mannion and G. Vandeberg. 2002. "Survival of the Fittest: Teaching Techniques for Large Lecture Classes." Panel discussion at the annual meeting of the Great Plains/Rocky Mountain Division of the Association of American Geographers, Missoula, MT (October 2002).

2001 Vandeberg, G.S., S.R. Jennings, D.R. Neuman and M.K. Reeves. 2001. "Delineation of An Outer Boundary for a Superfund Site Near Anaconda, Montana." Poster presented at the annual meeting of the Association of American Geographers, New York, NY (February 27 -March 3, 2001).

2000 Vandeberg, G.S., D.J. Dollhopf, D.R. Neuman, P.D. Smith, W. Bluck and S. Brown. 2000. "Time critical removal action in response to contaminated soils along the eastside ditch near Deer Lodge, Montana." Poster presented at the Clark Fork Symposium, Missoula, MT (April 2000).

Vandeberg, G.S., D.J. Dollhopf, J.Goering and D.R. Neuman. 2000. "Evaluation of Ferric Oxide for Adsorption of Arsenic Leaching from a Mine Waste Repository." Paper presented at Billings Land Reclamation Symposium 2000, Billings, MT (June 2000).

1999 Vandeberg, G.S., D.J. Dollhopf, J.Goering and D.R. Neuman. 1999. "Evaluation of Ferric Oxide for Adsorption of Arsenic Leaching from a Mine Waste Repository-Preliminary Results." Paper presented at the annual meeting of the Montana Section-American Water Resources Association, Great Falls, MT (October 1999).

G.S. Vandeberg, J. Goering, D.R. Neuman and S.R. Jennings. 1999. "Water balance for reclaimed and unreclaimed mining wastes near Anaconda, Montana: a comparison." Poster presented at the annual meeting of the Rocky Mountain Section of the Geological Society of America, Pocatello, ID (April 1999).

1990 Vandeberg, G.S. and W.W. Locke. 1990. "Interaction of Pinedale-E-quivalent Valley Ice in the Tom Miner Basin, Montana with the Northern Yellowstone Outlet Glacier." Paper presented at the annual meeting of the Rocky Mountain Section of the Geologi-cal Society, Jackson, WY (May 1990).

1989 Vandeberg, G.S. and W.W. Locke. 1989. "Temporal and Spatial Relationships of Late Quaternary Valley Ice in the Tom Miner Basin, Montana with the Northern Yellowstone Outlet Glacier." Paper presented at the annual meeting of the Cordilleran and Rocky Mountain Sections of the Geological Society of America, Spokane, WA (May 1989).

INVITED LECTURES

2007 Guest Lecture (September 26, 2007). Soil Science Seminar, Dept. of Soil Science, North Dakota State University. Title: "The Use of Geographic

Information Systems in Environmental Investigations."

2006 Guest Lecture (March 10, 2006). Faculty of Environment, Earth and Resources, University of Manitoba, Canada. Title: "Characterization and Reclamation of Hardrock Mining and Smelting Sites in Montana, U.S.A."

2005 Guest Lecturer (November 29, 2005). Division of Social Sciences, Minot State University, ND. Title: "The Impact of Mining on the Western Landscape: Examples from North Dakota, Kansas and Montana."

Guest Lecturer (October 18, 2005). English Department, Introduction to Editing Class (ENGL 417) University of North Dakota, Grand Forks, "Question and answer period on technical report writing."

2003 Guest Lecturer (February 2003). Department of Geography, Kansas State University, Manhattan, KS. Title: "Environmental Consequences of Metal Mining in the U.S."

2002 Guest Lecturer (February 2002). Department of Geography, Kansas State University, Manhattan, KS. Title: "Metal Mining and Smelting in U.S.: Views of Resource Extraction and Environmental Consequences."

2000 GTU Brown Bag Seminar Series (October 2000). Department of Geography, Kansas State University, Manhattan, KS. Title: "Deer Lodge, Montana: The Impact of Mining on a Residential Community."

1994 Guest Lecturer (September 1994). 61st Annual Water School for Water and Wastewater Operations, Sponsored by Montana State University Water Resources Center and College of Engineering, and Montana Department of Health and Environmental Science, Bozeman, MT. Title: "Treatment and Movement of Ground Water Contamination."

1993 Guest Lecturer (December 1993). Public Meeting Sponsored by the Underground Storage Tank Program and Water Quality Bureau, Montana Department of Health and Environmental Science; and Chen-Northern, Inc., Lincoln, MT. Title: "Investigations of Petroleum-Contaminated Groundwater and Soil, Lincoln, MT."

Guest Lecturer (March 1993). Water School Sponsored by Montana Environmental Training Center and Montana Department of Health and Environmental Science, Miles City, MT. Title: "Montana Leaking Underground Storage Tank Program (LUST) and Case Studies of Petroleum-Contaminated Ground Water."

1992 Guest Lecturer (September 1992). Annual Meeting, Montana Water Quality Association, Great Falls, MT. Title: "Protection of Domestic Water Supplies from Petroleum-Contaminated Groundwater."

Guest Lecturer (June 1992). Groundwater Protection and Training Seminar Sponsored by Montana Environmental Training Center and Montana Department of Health and Environmental Science, Montana Tech, Butte, MT. Title: "Groundwater Contamination in Montana."

Guest Lecturer (May 1992). Seminar on Environmental Assessment of Real Property Sponsored by Montana Independent Bankers and Matney-Frantz Engineering, P.C., Bozeman, MT. Title: "I Have an Underground Storage Tank, What Do I Do"?

GRANTS, CONTRACTS AND AWARDS (Total Dollars: $62,776)

2007 Characterization of Water and Sediment Quality of Lake Alice National Wildlife Refuge. U.S. Fish and Wildlife Service. (P.I.) $20,000.

Continuation of Geographic Variables Affecting Bald Eagle Nest Locations in the Red River Valley of North Dakota and Minnesota. North Dakota View. (PI.) $3,600.

2006 Travel Grant, Senate Scholarly Activities Committee, University of North Dakota to present paper at the 10th Billings Land Reclamation Symposium, Billings, MT. $247

Lab Manual for Introduction to Geographic Information Systems, Office of Instructional Development Mini Grant, University of North Dakota. (P.I.) $1,500.

Geographic Variables Affecting Bald Eagle (Haliaeetus leucocephalus) Nest

Locations in the Red River Valley of North Dakota and Minnesota, North Dakota View. (PI.) $7,446.

Smart Room Equipment for Geographic Analysis Laboratory, Room 116 O'Kelly Hall, Student Technology Fee Award, University of North Dakota, (with B.C. Rundquist, D.C. Munski and D. Hansen) $21,147.

Replacement Computers for the Geographic Analysis and Remote Sensing Lab (GARSL), Student Technology Fee Award, University of North Dakota (with B.C. Rundquist and D.C. Munski) $8,505.

2005 Travel Grant, Senate Scholarly Activities Committee, University of North Dakota to present paper at the Association of American Geographers Meeting, Denver, CO. $331.

PROFESSIONAL SERVICE

Manuscripts Reviewed

* Journal of Geography (Fall 2007)

* Environmental Pollution (Fall 2006).

* Journal article for researchers at University of Manitoba, Department of Geological Sciences (Fall 2006).

Research Proposals Reviewed

* Natural Sciences and Engineering Research Council of Canada Grant Application 357003-07 (Fall 2007)

* Montana Water Center U.S.G.S. 104b proposal (Fall 2006).

Professional Meetings

* Field trip organizer and leader, Canadian Association of Geographers, Prairie Division Annual Meeting, Rugby, ND (September 29-October 1, 2006).

* Session Moderator, Surface Water/Clark Fork Watershed Issues, Annual Meeting of the American Water Resources Association-Montana Section, War Bonnet Inn, Butte, MT (October 2-3, 1997).

* Session Moderator, Annual Meeting of the American Water Resources Association-Montana Section, Western Montana College of the University of Montana, Dillon, MT (October 3-4, 1996).

* Session Moderator, Annual Meeting of the American Water Resources Association-Montana Section, Montana State University, Bozeman, MT (October 1995).

Professional Societies/Honor Societies Offices

* President, Beta Psi Chapter of Gamma Theta Upsilon, National Geography Honor Society, Kansas State University (2002).

* Vice-President, American Water Resources Association-Montana Section (1995-96).

* Secretary-Treasurer, American Water Resources Association-Montana Section (1994-95).

UNIVERSITY/DEPARTMENTAL SERVICE

* Organized and handled publicity for GIS Day Activities at the University of North Dakota that included three outside speakers (2006).
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* Faculty Advisor for Gamma Theta Upsilon Geography Club (2005-present).

* Geography Department GTA Coordinator (2004-present).

* Member of Faculty Research Seed Money Physical Sciences Committee (2005-present).

* Co-leader and Organizer, New Geography Graduate Students Field Trip (2005-present).

* Organizer, Department of Geography Fall Picnic (2005).

COMMUNITY SERVICE

* Co-leader with Phil Gerla of Stream Assessment Field Workshop for The Nature Conservancy, at Turtle River State Park, ND (August 13-14, 2007).

* Produced map of CCC Sites with Grand Forks Community High School Students for Turtle River State Park, Arvilla, ND (Spring 2007).

* Produced winter and summer trail maps for Turtle River State Park, Arvilla, ND (Fall 2006).

* Rocks and minerals demonstration for 3rd grade classes, Lake Agassiz Elementary School, Grand Forks, ND (September 25, 2006).

* Led Brownie Troop 309 on nature hike at Turtle River State Park (October 15, 2006).

* Committee Member, Blackfoot Challenge Habitat and Water Quality Restoration Committee, Ovando, MT (2002-2006).

* Technical participant, Blackfoot Challenge field assessment of Blackfoot River for determination of Total Maximum Daily Loads (TMDL's), upper Blackfoot River, MT. Lincoln, MT (August 12, 2002).

SHORT COURSES ATTENDED/CERTIFICATIONS

* HAZWOPER-29CFR 1910.120 certified 40 hour and 8 hour refresher courses. Required for sampling and investigations on Superfund sites (1991-2007).

* River Channels Course, Luna B. Leopold, Bill Thrush and Scott McBain, instructors, Teton Science School, Jackson Hole, WY (July 23-25, 2001).

* ESRI Introduction to ArcView GIS, Montana State University, Bozeman, MT (May 3-4, 1999).

* Operation and Maintenance of the Neutron Moisture Probe, Montana

State University, Bozeman, MT (March, 1998).

* Radiation Safety Training, Montana State University, Bozeman, MT (October 16, 1995).

* GIS and the Geosciences, GSA Continuing Education Course, Geological Society of America Annual Meeting, Seattle, WA (October 23, 1994).

* Leaking Underground Storage Tank Site Assessment and Corrective Action, U.S. Environmental Protection Agency, Region VIII Office, Denver, CO (September 18-20, 1991).

AWARDS, HONORS AND HONOR SOCIETIES

* Nominated for Undergraduate Teaching Award, University of North Dakota (2006).

* Who's Who "The Chancellor's List" (2004-2005).

* Phi Kappa Phi, Kansas State University chapter, Manhattan, KS (2005).

* Student Paper Award, Honorable mention for student paper competition at the 2002 Annual meeting of the Great Plains/Rocky Mountain Division of the Association of American Geographers, Missoula, MT (2002).

* Leadership Award, Department of Geography, Kansas State University, Manhattan, KS (2002).

* Gamma Theta Upsilon, Kansas State University chapter, Manhattan, KS (2001).

* Nominated for Governor's Appreciation Award for Excellence in Performance, Montana Department of Environmental Quality, Helena, MT (1995).

* Nominated for John W. Bartlett Employee of the Year, Montana Department of Health and Environmental Sciences, Helena, MT (1994).

PROFESSIONAL SOCIETIES

Association of American Geographers (2000-present).

American Quaternary Association (1996-present).

American Society of Mining and Reclamation (1996-present).

Geological Society of America (1988-present).

National Council for Geographic Education (2007-present).