

CURRICULUM VITAE

David D. Shively, Ph.D.

Professor

Department of Geography

Stone Hall 212

University of Montana

Missoula, MT 59812-5040

Voice: (406) 243-6478

Fax: (406) 243-4840

david.shively@umontana.edu

Education:

- Ph.D. Oregon State University, September 3, 1999
Department of Geosciences
Major: Resource Geography
Minor: Integrated - Rural Communities
Minor: Earth Information Science & Technology
- M.S. Oregon State University, March 16, 1990
Department of Geosciences
Major: Physical Geography
Minor: Integrated - Watershed Science
- B.S. Eastern Oregon University (Eastern Oregon State College), June 5, 1987
High Honors
Major: Community Service
- Attended Lane Community College, 1983-1985.

Academic Appointments & Employment History:

- 2012-2021 Professor, Department of Geography, University of Montana.
- 2016-2020 Chair, Department of Geography, University of Montana.
- 2012-2013. Professor of Systems Ecology, University of Montana.
- 2011-2012. Associate Professor of Systems Ecology, University of Montana.
- 2007-2012. Associate Professor, Department of Geography, University of Montana.
- 2004-2007. Assistant Professor, Department of Geography, University of Montana.
- 2006-2009. Adjunct Faculty Member, Tropical Conservation Biology and Environmental Science, University of Hawaii at Hilo.
- 2000-2004. Assistant Professor, Department of Geography, Central Michigan University.
- 1999-2000. Visiting Instructor, Graduate and Undergraduate Internship Program Coordinator, Graduate and Undergraduate Seminar Coordinator. Department of Geosciences, Oregon State University.
- 1992-1995. Instructor/Graduate Teaching Assistant. Department of Geosciences, Oregon State University.
1994. Elderhostel Instructor, Western Oregon University (State College).

- 1993-1995. Graduate Research Assistant/Project Manager – “Potential Development Impacts Analysis” study. Department of Geosciences, Oregon State University.
1993. Graduate Research Assistant - Department of Bioresource Engineering, Oregon State University.
1991. Field Research Assistant – Department of Fisheries and Wildlife, Oregon State University.
- 1987-1989. Graduate Teaching Assistant/Instructor. Department of Geography, Oregon State University.

Courses Taught:

University of Montana

- 2020-2021. Introduction to Physical Geography (GPHY 111); Intro Physical Geography Lab (GPHY 112); Community Resilience (GPHY 433); Planning Principles and Processes (GPHY 465); Seminar in Planning (GPHY 560).
- 2019-2020. Geography Capstone (GPHY 400); Sustainable Cities (GPHY 421); Environmental Planning (GPHY 466); Geography Colloquium (GPHY 500); Planning Design (GPHY 564), Field Techniques (GPHY 385; 0.13 approx. effort)
- 2018-2019. Geography Capstone (GPHY 400); Community Resilience (GPHY 433); Planning Principles and Processes (GPHY 465); Geography Colloquium (GPHY 500); Seminar in Planning (GPHY 560).
- 2017-2018. Geography Capstone (GPHY 400); Sustainable Cities (GPHY 421); Environmental Planning (GPHY 466); Geography Colloquium (GPHY 500); Planning Design (GPHY 564).
- 2016-2017. Field Techniques (GPHY 385; 0.15 approx. effort); Geography Capstone (GPHY 400); Cultural Ecology [Community Resilience] (GPHY 433); Planning Principles and Processes (GPHY 465); Geography Colloquium (GPHY 500); Seminar in Planning (GPHY 560).
- 2015-2016. Introduction to Human Geography (GPHY 121); Environmental Planning (GPHY 466); Planning Design (GPHY 564).
- 2014-2015. Introduction to Human Geography (GPHY 121); Planning Principles and Processes (GPHY 465); Seminar in Planning (GPHY 560).
- 2013-2014. Introduction to Human Geography (GPHY 121); Environmental Planning (GPHY 466); Planning Design (GPHY 564).
- 2012-2013. Water Policy (GPHY 335); Seminar in Planning (GPHY 560).
- 2011-2012. Introduction to Human Geography (GPHY 121); Planning Principles and Processes (GPHY 465); Water Policy (GPHY 335); Seminar in Planning (GPHY 560); Planning Design (GPHY 564).
- 2010-2011. Sabbatical Appointment.
- 2009-2010. Introduction to Human Geography (GPHY 121); Water Policy (GPHY 335); Planning Principles and Processes (GPHY 465); Seminar in Planning (GPHY 560); Planning Design (GPHY 564).

- 2008-2009. Introduction to Human Geography (GEOG 101); Planning Principles and Processes (GEOG 465); Environmental Planning (GEOG 466), Advanced Topics in Water Resources (GEOG 495); Seminar in Planning (GEOG 560).
- 2007-2008. Introduction to Human Geography (GEOG 101); Water Policy (GEOG 335); Planning Principles and Processes (GEOG 465); Environmental Planning (GEOG 495), Planning Decision Support Systems (GEOG 495).
- 2006-2007. Introduction to Human Geography (GEOG 101); Water Policy (GEOG 335); Planning Principles and Processes (GEOG 465); Environmental Planning (GEOG 495), Seminar in Planning (GEOG 560).
- 2005-2006. Introduction to Human Geography (GEOG 101); Landform Geomorphology (GEOG 324); Planning Principles and Processes (GEOG 465); Planning Decision Support Systems (GEOG 495).
- 2004-2005. Introduction to Human Geography (GEOG 101); World Regional Geography (GEOG 103); Planning Principles and Processes (GEOG 465); Seminar in Planning (GEOG 560).

Central Michigan University

- 2003-2004. Introduction to Environmental Studies - Co-Instructor (ENV 101); Environmental Geography (GEO 120); Landforms (ESC 210); Land Use Planning (GEO 530); Geographic Research (GEO 575).
- 2002-2003. Introduction to Environmental Studies - Co-Instructor (ENV 101); Environmental Geography (GEO 120); Landforms (ESC 210); Land Use Planning (GEO 530); Integrated Land Use Planning (GEO 575).
- 2001-2002. Introduction to Environmental Studies - Co-Instructor (ENV 101); Environmental Geography (GEO 120); Cultures of the World (GEO 121); Resource Perception and Utilization (GEO 330) - four lectures; Land Use Planning (GEO 530); Integrated Land Use Planning (GEO 575-B).
- 2000-2001. Environmental Geography (GEO 120); Cultures of the World (GEO 121); Land Use Planning (GEO 530); Michigan Geographic Alliance Advanced Institute on Rivers Workshop: "Rivers and Environmental Issues."

Oregon State University

- 1999-2000. Climatology (GEO 323), Geography of Resource Use (GEO 420/520), Land Use (GEO 423/523), GIS Practicum (GEO 265), Geography of Latin America (GEO 328).
- 1998-1999. Geography of the Western World (GEO 106).
- 1992-1995. Geography of the Western World (GEO 106).
1989. Geography of the Pacific Northwest (GEO 313).

Western Oregon University (State College)

1994. The Oregon Mystique (Elderhostel course).

Scholarly Activity:

Peer-Reviewed and Refereed Publications

- Thaler, Thomas, Shively, David, Petersen-Perlman, Slavikova, Lenka, and Thomas Hartman. 2019. Collective Choices Affecting Natural Hazards Governance, Risk, and Vulnerability. *Oxford Encyclopedia of Natural Hazards Governance*. Oxford: Oxford University Press. Available: <https://oxfordre.com/naturalhazardscience/view/10.1093/acrefore/9780199389407.01.0001/acrefore-9780199389407-e-142> [Shively prepared section on Columbia River Treaty, edited total submission and revision; estimates 30% effort].
- Shively, David. 2017. Flood risk management in the United States: implications of National Flood Insurance Program changes for social justice. *Regional Environmental Change*, 17(6): 1663-1672 DOI: 10.1007/s10113-017-1127-3.
- Eduful, Michael, and David Shively. 2015. Perceptions of urban land use and degradation of water bodies in Kumasi, Ghana. *Habitat International*, 50: 206-213. [Shively edited submission and revision; estimates 30% effort].
- Shively, D., and A. Thompson. 2015. Stakeholder collaboration in the Columbia River Treaty Review process. *International Journal of Water Resources Development*, DOI: 10.1080/07900627.2015.1018411 [Shively prepared manuscript; estimates 70% effort].
- Shively, D., and G. Mueller. 2010. Montana's Clark Fork River Basin Task Force: a vehicle for integrated water resources management? *Environmental Management*, 46(5): 671-684. [Shively designed study, analyzed data, prepared manuscript and edited revision; estimates 90% effort].
- Zhou, Y., Shively, D., Mao, H., Russo, R., Pape, B., Mower, R.N., Varner, R., and B. Sive. 2010. Air toxic emissions from snowmobiles in Yellowstone National Park, *Environ. Sci. Technol.*, 44:222-228.
- Shively, D., Y. Zhou, and B.C. Sive. 2009. Snowmobile pollution in North America: annual flux estimates of air toxics and implications for potential personal exposure in snowmobile dominated communities. In Demidov, Sergey, and Jacques Bonnet, *Traffic Related Air Pollution and Internal Combustion Engines*. New York: Nova Science Publishers.
- Shively, D., B. Pape, R. N. Mower, Y. Zhou, R. Russo, and B. Sive. 2008. Blowing smoke in Yellowstone: Air quality impacts of oversnow motorized vehicle recreation in the Park. *Environmental Management* 41(2): 183-199 (DOI 10.1007/s00267-007-9036-8).
- Sive, B., Shively, D., and B. Pape. 2003. "Spatial Variation of Volatile Organic Compounds Associated with Snowmobile Emissions in Yellowstone National Park." Peer reviewed research report submitted to the National Park Service, United States Department of the Interior. October 25, 2003. Available: <http://www.nps.gov/yell/parkmgmt/winterusetechicaldocuments.htm>
- Shively, D. 2001. Water Right Reallocation in New Mexico's Rio Grande Basin, 1975-1995. *International Journal of Water Resources Development*, 17(3): 445-460.

Other Publications

- Shively, David. 2014. MP Interview: Tenure Track Faculty Union Presidents – David Shively (UM-Missoula). *Montana Professor*, 24(1).
- Hazard, Josh, and David Shively. 2011. *Conjunctive Water Resources Management in the Western United States*. White paper for the Clark Fork River Basin Task Force and the Montana Department of Natural Resources and Conservation.
- Petersen-Perlman, Jacob, and David Shively (Eds). 2009. *Proceedings of the Montana Conjunctive Management Conference*. Available: http://www.dnrc.mt.gov/wrd/water_mgmt/clarkforkbasin_taskforce/pdfs/conjunctive_mgmt_proceedings.pdf.
- Petersen-Perlman, Jacob, and David Shively (Eds). 2009. *Proceedings of the Clark Fork River Basin Roundtable*. Available: http://www.dnrc.mt.gov/wrd/water_mgmt/clarkforkbasin_taskforce/pdfs/roundtable_draft_proceedings_7-6-09.pdf.
- Petersen-Perlman, J., and D. Shively. 2009. *Assessment of Municipal Water Rights in the Upper Clark Fork Basin*. A research report prepared for and reviewed by the Upper Clark Fork River Basin Steering Committee.
- Petersen-Perlman, Jacob, and David Shively (Eds). 2008. *Proceedings of the Water Supply and Growth in the Clark Fork River Basin Conference*. Available: http://dnrc.mt.gov/wrd/water_mgmt/clarkforkbasin_taskforce/pdfs/watersupply_growth_conference-proceedings.pdf.
- Shively, D. 2003. Invited review of “*Protected Areas and the Regional Planning Imperative in North America*.” Edited by J. G. Nelson, J. C. Day, Lucy M. Sportza, James Loucky, and Carlos Vasquez. University of Calgary Press and Michigan State University Press. 2003. *Michigan Academician* 35(4):495-497.
- Sive, B., Shively, D., and B. Pape. 2002. “*Spatial Variation and Characteristics of Volatile Organic Compounds Associated with Snowmobile Emissions in Yellowstone National Park*.” A Research Report Submitted to the National Park Service, United States Department of the Interior. May 28, 2002.
- Shively, D. 2001. Invited review of Terence Richard Lee’s (1999) “Water Management in the 21st Century: the Allocation Imperative,” Northampton, MA: Edward Elgar Publishing, Inc. *Economic Geography*, 77(4): 400-402.
- Shively, D. 1999. *Transfers of Water Rights in New Mexico’s Rio Grande Basin: Spatiotemporal and Sociocultural Patterns*. Ph.D. Dissertation. Corvallis: Oregon State University Department of Geosciences.
- Shively, D. 1993. *Landscape Change in the Tualatin Basin Following Euro-American Settlement*. Tualatin River Basin Water Resources Management Report Number 6. Corvallis, OR: Oregon Water Resources Research Institute.
- Shively, D. 1989. *Landsliding Processes Occurring on a McDonald-Dunn Forest Hillslope*. M.S. Research Paper. Corvallis: Oregon State University Department of Geosciences.

Conference Papers and Presentations

National/International Meetings

2017. Shively, David. *Flood Risk Management in the United States: Implications of National Flood Insurance Program Changes for Social Justice* (Paper). 2017 (114th) Annual Meeting of the Association of American Geographers, Boston, MA, April 8, 2017.
2017. Shively, David. *Water Resources in Higher Education* (Panelist). 2017 (114th) Annual Meeting of the Association of American Geographers, Boston, MA, April 7, 2017.
2015. Shively, David, and Anthony Thompson. *Stakeholder Collaboration in the Columbia River Treaty Review Process* (Paper). 2015 (112th) Annual Meeting of the Association of American Geographers, Chicago, IL, April 21-25, 2015.
2013. Myers, Andrew, and David Shively. *The Social Construction of Wolves: The Role of Wolf Trapping in Montana Wolfscapes* (Paper). 2013 (110th) Annual Meeting of the Association of American Geographers, Tampa, FL, April 8, 2013.
2013. Shively, David D., Wingard, James, and Maria Pascual. *The Legal Atlas Project* (Paper). 2013 (109th) Annual Meeting of the Association of American Geographers, Los Angeles, CA, April 13, 2013.
2013. Panelist: *Navigating an Academic Career*, an AAG Jobs and Careers Center Panel Discussion, 2013 (109th) Annual Meeting of the Association of American Geographers, Los Angeles, CA, April 9, 2013.
2013. Panelist: *The Academic Job Market for Geographers*, an AAG Jobs and Careers Center Panel Discussion, 2013 (109th) Annual Meeting of the Association of American Geographers, Los Angeles, CA, April 9, 2013.
2013. Moderator and Panelist: Campaign for the Future of Higher Education. National Education Association Higher Education Conference: *Faculty, Students, and the Common Good*, Portland, Oregon, March 22-24.
2011. Shively, David D. *Piscatorial Landscapes: Flyfishing, Place, and Conservation* (Paper). 107th Annual Meeting of the Association of American Geographers, Seattle, Washington, April 13, 2011.
2010. Ewald, Michael, and David Shively. *Efficacy of Riparian Area Setback Regulations in Western Montana* (Paper). National Conference on Undergraduate Research, University of Montana, Missoula, April 15, 2010.
2008. Shively, David D., and Gerald Mueller. *Montana's Clark Fork River Basin Task Force: a vehicle for integrated water resources management?* (Paper). 104th Annual Meeting of the Association of American Geographers, Boston, Massachusetts, April 15-19, 2008.
2007. Shively, David D. *The McKenzie River Driftboat: a Co-opted Icon of Regional Identity* (Paper). 103rd Annual Meeting of the American Association of Geographers, San Francisco, California, April 17-21, 2007.
2007. Aspinall, Richard J., Bennet, David A., McGinnis, David L., Meyer, Judith L., Shively, David D., and Cathy L. Whitlock. *Yellowstone National Park: A system at the intersection of human and environmental dynamics*. Panel Session

- Participant at the 103rd Annual Meeting American Association of Geographers, San Francisco, California, April 17-21, 2007.
2006. Shively, David D., Pape, Bruce, and Barkley Sive. *Cartographic Symbolization of Environmental Quality*. (Illustrated paper). 2006 Annual Meeting of the Association of American Geographers, Chicago, Illinois, March 9, 2006.
2005. Shively, David D. *Winter Use Planning in Yellowstone and Grand Teton National Parks: A Case Study in Contemporary Federal Environmental Policy Making*. (Paper). Presented at the 2005 Annual Meeting of the Association of American Geographers, Denver, Colorado, April 6, 2005.
2003. Shively, David D., Pape, Bruce, Yong, Zhou, Lutz, Pamela, O'Boyle, Isreal , and Barkley C. Sive. *Mapping Air Quality: Geographic Issues, Opportunities, and Responsibilities*. (Paper). Presented at the 2002 Annual Meeting of the Association of American Geographers, New Orleans, Louisiana, March 4-8, 2003.
2002. Shively, David D., Bruce Pape, Zhou Yong, Pamela Lutz, Isreal O'Boyle, and Barkley Sive. *Spatial Variation of Volatile Organic Compounds Associated with Snowmobile Emissions in Yellowstone National Park*. (Paper). Eighth Yellowstone Interagency Science Conference, Mammoth, Wyoming, September 11-12, 2002.
2002. Sive, Barkley C., Yong Zhou, Pamela Lutz, Isreal O'Boyle, Bruce Pape, and David D. Shively. *Nonmethane Hydrocarbon and Halocarbon Measurements in Yellowstone National Park: Impact of Snowmobile Emissions on Local Atmospheric Chemistry*. (Paper). Eighth Yellowstone Interagency Science Conference, Mammoth, Wyoming, September 11-12, 2002.
2002. Pape, Bruce M.C., David Shively, Zhou Yong, Pamela Lutz, Isreal O'Boyle, and Barkley Sive. *Yellowstone National Park Wintertime Air Pollution, Putting it into Perspective*. (Paper). Eighth Yellowstone Interagency Science Conference, Mammoth, Wyoming, September 11-12, 2002.
2000. Shively, D. 2000. *Water Right Transfers in New Mexico's Rio Grande Basin, 1975-1995: Spatiotemporal and Sociocultural Patterns*. (Paper). 95th Annual Meeting of the Association of American Geographers, Pittsburgh, PA.
1997. Shively, D. *Milagro Revisited: Transfers of Water Rights in the Rio Grande Basin, New Mexico*. (Paper). 93rd Annual Meeting of the Association of American Geographers, Fort Worth, TX.
1995. Shively, D. *Landuse Impacts Associated With Water Marketing in New Mexico*. (Paper). 91st Annual Meeting of the Association of American Geographers, Chicago, IL.
1994. Shively, D. *Landscape Change in the Tualatin Basin Following Euro-American Settlement*. 90th Annual Meeting of the Association of American Geographers, San Francisco, CA.
1994. Cass, P, Miner, J. R., and Shively, D. *The Relationship Between Economic Development, Population Growth and Water Quality in the Tualatin River*. (Paper). 1994 International River Quality Symposium, Portland, OR.

Regional/Local Meetings

2018. David Shively. Annual Meeting of the Clark Fork and Kootenai River Basins Council. Welcome, MC, Panelist (Breakout Session: Discussion of State & Basin

- Water Plans, Integrated Water Quality Report, and watershed/basin organizations and their role in water and watershed management). April 16th & 17th, University of Montana, Missoula, Montana.
2018. David Shively. One River – Ethics Matter: Western Montana. 5th annual international ethics conference on the past and future of the Columbia River. MC/Introduction/Summation. April 11, 2018, University of Montana, Missoula, Montana (agenda at: <https://www.celp.org/ethics-montana/>; video at: <https://vimeo.com/user21903749/review/305434800/5e24ffa731>).
2018. David Shively and Erin Farris-Olsen. Great Conversation: Watershed Organizations, the State Water Plan, and Water Quality Planning. Montana Water Summit, Helena, Montana, March 6-7, 2018.
2009. Brown, Joel, Halvorson, Sarah, and David Shively. *Irrigators' Vulnerability to Drought in the Flathead River Basin, Montana*. (Paper). Montana Chapter of the American Water Resources Association's 26th Annual Conference, Waters That Cross Divides, October 1 & 2, 2009, Missoula, Montana.
2009. Shively, David D. *Conference Summation*. Montana Conjunctive Water Management Conference, June 8 & 9, 2009, Missoula, Montana. In: Petersen-Perlman, Jacob, and David Shively (Eds). 2009. *Proceedings of the Montana Conjunctive Management Conference*. Available: http://www.dnrc.mt.gov/wrd/water_mgmt/clarkforkbasin_taskforce/pdfs/conjunctive_mgmt_proceedings.pdf.
2008. Shively, David D., and Gerald Mueller. *Montana's Clark Fork River Basin Task Force: a vehicle for integrated water resources management?* (Paper). Montana Chapter of the American Water Resources Association's 25th Annual Conference, Water Sustainability: Challenges for Montana, October 2 and 3, 2008, Big Sky, Montana.
2006. Shively, David D. 2006. *Policy and Administrative Tools*. (Paper). Clark Fork River Basin Groundwater Policy Conference, November 9, 2006, Missoula, Montana. Internet, available: http://dnrc.mt.gov/wrd/water_mgmt/clarkforkbasin_taskforce/powerpnt/policy-administrative_tools-shively.pdf.
2006. Shively, David D. 2006. *Cartographic Symbolization of Environmental Quality*. (Paper). 2006 UM Graduate Student and Faculty Research Conference, Missoula, April 8, 2006.
2002. Shively, David D., Bruce Pape, Zhou Yong, Pamela Lutz, Isreal O'Boyle, and Barkley C. Sive. *Issues and Opportunities in Mapping Air Quality: Urban and Rural Case Studies*. (Paper). 2002 Annual Meeting of the East Lakes Division of the Association of American Geographers, Mount Pleasant, Michigan, October 18-19, 2002.
2002. Bruce M. C. Pape, David Shively, Zhou Yong, Pamela Lutz, Isreal O'Boyle and Barkley Sive. Detroit Air Pollution, Putting it into Perspective. (Paper). Presented at the 2002 Annual Meeting of the East Lakes Division of the Association of American Geographers, Mount Pleasant, Michigan, October 18-19, 2002.
2002. Lutz, P., O'Boyle, I., Wenner, D., Bennett, M., Morse, J., Shively, D., Pape, B., and B. Sive. *Halocarbon Tracer Measurements in the Detroit Metropolitan Area*.

- Display #186. Ninth Annual Student Research and Creative Endeavors Exhibition, Wednesday, April 24, 2002.
2002. Lutz, P., O'Boyle, I., Wenner, D., Bennett, M., Morse, J., Shively, D., Pape, B., and B. Sive. *Halocarbon Tracer Measurements in the Detroit Metropolitan Area*. Posters at the Capital, April 16, 2002.
2002. Bennett, M., Lutz, P., O'Boyle, I., Wenner, Morse, J., Shively, D., Pape, B., and B. Sive. *Air Quality Survey for the Mt. Pleasant Region*. Display #182. Ninth Annual Student Research and Creative Endeavors Exhibition, Wednesday, April 24, 2002.
2002. Bennett, M., Lutz, P., O'Boyle, I., Wenner, Morse, J., Shively, D., Pape, B., and B. Sive. *Air Quality Survey for the Mt. Pleasant Region*. Posters at the Capital, April 16, 2002.
2002. Juli Morse, Wenner, D., O'Boyle, I., Lutz, P., Bennett, M., Pape, B., Shively, D., and B. Sive. Trace Gas Distribution in the Detroit Metropolitan Area, a Diurnal Study. Ninth Annual Student Research and Creative Endeavors Exhibition, Wednesday, April 24, 2002.
1999. Shively, D. *It Takes A Lot of Fish to Raise a Fish*. Oregon State University Graduate Student Association Conference Special Session, "It Takes a Village to Raise a Fish: Multidisciplinary Perspectives of Natural Resources." Corvallis, OR.
1996. Shively, D. *Fish vs. People: Trouble in Fisherman's Paradise*. 54th Annual Oregon Academy of Science Meeting, Eugene, OR.

Colloquia and Other Presentations:

2020. Panel presentation on the *Clark Fork and Kootenai River Basins Council*, Seeking Sustainability Lecture/Action Series, Environmental Studies Program, University of Montana, February 20, 2020.
2016. *Montana's Clark Fork River Basin Task Force: A Vehicle for Integrated Water Resources Management? Some Restropection*. Guest lecture/presentation in Dr. Brian Chaffin's Montana Water Seminar (NRSM 494), University of Montana (October 11, 2016).
2016. *Flood Risk Management in the United States: Implications of National Flood Insurance Program Changes for Social Justice*. Colloquium presentation, GPHY 500 Geography Colloquium, Department of Geography, University of Montana (September 13, 2016).
2015. *UFA – University Faculty Association Local 119*. Guest lecture/presentation in Dr. Rinfret's Human Resources Management seminar (PSCI 522), University of Montana (March 12, 2015).
2014. *Sustainable Water Use in Montana, Why Cities Are the Answer*. Guest lecture in Dr. Ulrich Kamp's Sustainable Cities course (GPHY 421), University of Montana (March 19, 2014).
2013. *Sustainable Water Use in Montana, Why Cities Are the Answer*. Guest lecture in Dr. Ulrich Kamp's GLI Seminar on Sustainable Cities, University of Montana (October 2, 2013).

2011. *Sustainable Water Use in Montana, Why Cities Are the Answer*. Guest lecture in Dr. Ulrich Kamp's GPHY 421 – Sustainable Cities course, University of Montana (October 19, 2011).
2011. Department of Geography Colloquium presentation on *Piscatorial Landscapes and Other Random Musings about a Year Abroad*. University of Montana (September 20, 2011).
2011. *River Basin Planning in Montana*. Oregon Water Resources Research Center Brownbag Presentation, Oregon State University, Corvallis, OR (May 13, 2011).
2011. *Montana's Clark Fork River Basin Task Force: A Vehicle for Integrated Water Resources Management?* Research Seminar presentation, University of Waikato, Hamilton, New Zealand (March 18, 2011).
2011. *Piscatorial Landscapes: Flyfishing, Place, and Conservation*. Research Seminar presentation, Massey University, Palmerston North, New Zealand (March 9, 2011).
2011. Guest lecture on *Spatial and Environmental Planning in the U.S.*, in Imran Muhammed's Urban Planning and Design Paper (132.414), School of People, Environment, and Planning, Massey University, Palmerston North, New Zealand (March 7, 2011).
2010. Guest lecture on *The Geography of the American Southwest* in Rick Graetz's GPHY 342 – North America, University of Montana (June 16, 2010).
2009. Guest lecture on *Protecting Downstream Interests: The Role of Headwater States and Provinces in the Management of the Columbia river Basin's Waters* in Dr. Ulrich Kamp's GPHY 214 – Global Mountain Environments, University of Montana (November 20, 2009).
2009. Presentation on *Rivers and Transformation* in Themes of Transformation, a UM Honors Course (Dr. Marko's Class, October 23, 2009).
2008. Department of Geography Colloquium presentation on personal research activities, University of Montana (Autumn 2008).
2007. Department of Geography Colloquium presentation on *The Clark Fork River Basin Task Force: a Vehicle for Integrated Water Resources Management?*, University of Montana (September 18, 2007).
2005. Presentation on "Land Use Planning" in Missoula School District Continuing Education Short Course for teachers (Winter 2005).
2004. Geography Colloquium presentation on personal research activities, University of Montana (Autumn 2004).

Grants/Contracts

Funded

2017. Principal Investigator, Montana Department of Natural Resources & Conservation Watershed Management Grant (\$10,000). To support activities of the Clark Fork & Kootenai River Basins Council.

2010. Principal Investigator, UM Small Grant Program (\$1,238.00). *Piscatorial Landscapes: Flyfishing, Landscapes, and Conservation*, a sabbatical research project.
2009. Co-Principal Investigator, with Sarah Halvorson, Joel Harper, and Nancy Hinman (\$80,000). U.S. Department of Energy's INRA Water Research Consortium (ICEWATER) Grant.
2009. Principal Investigator/Coordinator/Organizer, Montana Department of Natural Resources and Conservation (\$14,430.00 funded, \$1,633.00 salary/fringe match). Conference: "*Montana Conjunctive Water Management Conference*." June 8 & 9, 2009, UM University Center, Missoula, Montana.
2009. Principal Investigator/Coordinator/Organizer, Montana Department of Natural Resources and Conservation (\$6,960.00 funded, \$1,633 salary/fringe Match). Conference: "*Clark Fork River Basin Roundtable*." May 6, 2009, UM University Center, Missoula, Montana.
2008. Principal Investigator, Montana Department of Natural Resources and Conservation (\$2,424.00 funded, \$3,317 salary match). Assessment of Municipal Water Rights in the Upper Clark Fork Basin (October 30, 2008).
2008. Principal Investigator/Facilitator, Montana Department of Natural Resources and Conservation (\$6,000.00). Conference: "*Water Supply and Growth in the Clark Fork River Basin*." March 10-11, 2008, UM University Center, Missoula, Montana.
2006. Principal Investigator/Facilitator, Montana Department of Natural Resources and Conservation (\$5,500.00). "*Groundwater Policy Conference*." November 9, 2006, UM University Center, Missoula, Montana.
2002. Co-Principal Investigator, National Park Service - U.S. Department of Interior Funded Investigation (\$72,954.00). *Spatial Variation of Volatile Organic Compounds Associated with Snowmobile Emissions in Yellowstone National Park*.
2002. Co-Principal Investigator, CST/ORSP/GEO/CHM Funded Investigation, Central Michigan University (\$11,560.54). *Spatial Variation and Characteristics of Volatile Organic Compounds Associated with Snowmobile Emissions in Yellowstone National Park*.
- 2001 - 2003. Co-Principal Investigator, REF Research Project, Office of Research and Sponsored Programs, Central Michigan University, Funded Investigation (\$99,843.55). *Spatial Variation of Air Quality in the Detroit Metropolitan Area*.
2002. Faculty Research and Creative Endeavors (FRCE) Premier Display Grant, Central Michigan University, for travel to Eighth Interagency Science Conference, Yellowstone National Park, September 11, 2002, for purpose of presenting paper entitled *Spatial Variation of Volatile Organic Compounds Associated with Snowmobile Emissions, Yellowstone National Park*.
- 1993-1995. Project Manager, Department of Geosciences, Oregon State University. Oregon Department of Transportation contractual agreement #11801 (\$78,335.58) awarded May, 1993, active until February, 1995. *Potential*

Development Impacts Analysis. A land use and transportation planning and build-out analysis research project conducted for seven Oregon counties.

Submitted (In Review)

Submitted (Not Funded)

2019. Principal Investigator, “A Hand-Held, Structure from Motion, Photogrammetric Approach for Riparian and Stream Restoration Assessment and Monitoring of the Upper Clark Fork River, Montana.” A Montana EPSCoR CREWS Seed Grant proposal (\$48,675.00). November 15, 2019.
2015. Co-Principal Investigator (with Gary Gannon, John O’Connor, and Rob Lindner of sciGaia, LLC, eight MSU and one UM faculty members), “Montana Wealth Engines.” A Montana Research Economic Development Initiative proposal (\$2,480,876).
2015. Co-Principal Investigator (with Matt McKinney, UM Center for Natural Resources and Environmental Policy), “Columbia River Basin Governance Gap Analysis & Mapping Project.” Funder: Northwest Power and Conservation Council (\$3,000.00). April 20, 2015.
2006. Principal Investigator, “Development of a Biophysically Informed GIS Model for Streamside Land Use Decision Making: Balancing Information Needs with Readily Available Technical Resources.” Charles A. and Anne Morrow Lindbergh Foundation (\$10,580).
2006. Principal Investigator, Montana Water Center U.S.G.S. Montana Water Resources Research 104(b) Grant (\$9,038.00). “Assessing Land Development and Future Water Demand in the Bitterroot Basin.”
2003. Co-Principal Investigator (Proposal Author), U.S. State Department, Bureau of Educational and Cultural Affairs, Educational Partnerships Program Project (\$176,184.00). “Expanding Geographic Information Science Capacity in the Dominican Republic: An Educational Partnership Between Central Michigan University (USA) and the Catholic University of Santo Domingo (Dominican Republic).”
2002. Principal Investigator - National Science Foundation Course, Curriculum, Laboratory Improvement (Adaptation & Implementation Track) Grant Proposal #0311289 (\$51,935.00 w/ \$13,960.00 CMU Match). “GIS-Based Land Use Simulation Technology Integration in the Undergraduate Curriculum.”

Professional Development Activities & Professional Affiliations:

Conference & Workshop Activity

Conferences, Seminars, Symposia

2020. Biennial Conference on University Education in Natural Resources (BCUENR), University of Montana, Missoula, Montana, March 12-14, 2020.

2018. Montana Water Summit, Helena, Montana, March 6-7, 2018.
2018. Montana Watershed Coordination Council Annual Meeting, East Helena, Montana, January 12, 2018.
2017. Labor Relations and Arbitration Conference, Learning from the Past, Planning for the Future. Montana Department of Labor & Industry. Bozeman, MT, September 27-28, 2017.
2017. First Annual Meeting of the Clark Fork & Kootenai River Basins Council, University of Montana, Missoula, MT, April 19-20, 2017.
2017. Montana Watershed Coordination Council Spring Training: Creative and Effective Watershed Planning, University of Montana, Missoula, MT, April 17, 2017.
2017. 2017 (114th) Annual Meeting of the American Association of Geographers, Boston, MA, April 5-9, 2017.
2015. 2014 (111th) Annual Meeting of the Association of American Geographers, Chicago, IL, April 21-25, 2015.
2014. Columbia River Basin 2014 Conference, Spokane, WA, October 21-23, 2014.
2013. 2013 (109th) Annual Meeting of the Association of American Geographers, Los Angeles, CA, April 9-13, 2013.
2013. National Education Association Higher Education Conference: *Faculty, Students, and the Common Good*, Portland, Oregon, March 22-24.
2012. *Fourth Annual Symposium on The Columbia River Treaty*. Polson, Montana, October 10-12, 2012. Hosted by the Universities Consortium on Columbia River Governance in partnership with Tribes and First Nations of the Columbia Basin.
2012. *Columbia River Treaty Review Listening Session*. Bonneville Power Administration and U.S. Army Corps of Engineers, Kalispell, Montana, July 18, 2012.
2012. *MEA/MFT General Assembly*, Missoula, MT, March 30-31, 2012.
2012. *3rd National Gathering of The Campaign for the Future of Higher Education*, Ypsilanti, MI, May 18-20, 2012.
2011. *2nd National Gathering of The Campaign for the Future of Higher Education*, Boston, MA, November 4-6, 2011.
2011. *Third Annual Symposium on Transboundary River Governance in the Face of Uncertainty: The Columbia River Treaty, 2014*, Kimberly, British Columbia, October 3 – 5, 2011. Hosted by the Universities Consortium on Columbia River Governance.
2011. 2011 Annual Meeting of the American Fisheries Society, Seattle, Washington, September 4-8, 2011.
2011. 2011 (107th) Annual Meeting of the Association of American Geographers, Seattle, Washington, April 12-16, 2011.
2010. National Conference on Undergraduate Research, University of Montana, Missoula, April 12-17, 2010.
2010. Clark Fork River Basin 2010 Roundtable, a conference convened by UM's Department of Geography (Shively as organizer), the Clark Fork River Basin Task Force, and the Montana Department of Natural Resources and Conservation. University of Montana's Missoula campus, March 4, 2010.

- 2010. Clark Fork Symposium, a conference convened by UM's Environmental Studies Program, March 4&5, 2010, University of Montana.
- 2009. Montana Section of the American Water Resources Association's 26th Annual Conference, Waters that Cross Divides, October 1 & 2, 2009, Missoula, Montana.
- 2009. Montana Conjunctive Water Management Conference, a conference convened by UM's Department of Geography (Shively as organizer), the Clark Fork River Basin Task Force, and the Montana Department of Natural Resources and Conservation. University of Montana's Missoula campus, June 8 & 9, 2009.
- 2009. Clark Fork River Basin Roundtable, a conference convened by UM's Department of Geography (Shively as organizer), the Clark Fork River Basin Task Force, and the Montana Department of Natural Resources and Conservation. University of Montana's Missoula campus, May 6, 2009.
- 2008. Montana Section of the American Water Resources Association's 25th Annual Conference, Water Sustainability: Challenges for Montana, October 2 and 3, 2008, Big Sky, Montana.
- 2008. 2008 Annual Meeting of the Association of American Geographers, April 15-19, 2008, Boston, Massachusetts.
- 2007. Montana Section of the American Water Resources Association's 24th Annual Meeting, "Irrigation Management in Transforming Western Landscapes," October 11-12, 2007, Lewistown, Montana.
- 2007. 2007 Annual Meeting of the Association of American Geographers. April 17-21, 2007, San Francisco, California.
- 2006. *Groundwater Policy Conference*, co-convened by The UM's Department of Geography and the Clark Fork Task Force, and funded by the Montana Department of Natural Resources and Conservation, University Center Theater, UM, Missoula, November 9, 2006.
- 2006. Land Use and Planning Leaders in the West's Great Plains/Western Lands Seminar. October 18-19, 2006. University of Montana Public Policy Research Institute and Lincoln Institute of Land Policy, Cambridge, Massachusetts.
- 2006. *Managing Clark Fork River Basin Groundwater*, conference co-convened by The UM's Department of Geosciences and the Clark Fork Task Force, and funded by the Montana Department of Natural Resources and Conservation, University Center Theater, UM, Missoula, September 27, 2006.
- 2006. Northwest Water Policy and Law Symposium. September 18-20, 2006, Bozeman, Montana.
- 2006. 2006 Annual Meeting of the Association of American Geographers. March 9, 2006, Chicago, Illinois.
- 2005. State Planning Directors of the West Annual Seminar. October 25-27, 2005. University of Montana Public Policy Research Institute and Lincoln Institute of Land Policy, Cambridge, Massachusetts.
- 2005. 2005 Annual Meeting of the Association of American Geographers. April 6, 2005, Denver, Colorado.
- 2004. "Silver Celebration on the Clark Fork: 25th Annual Western Planner Conference. August 4-6, 2004, Missoula, MT.
- 2003. "Creating Cool: Linking Culture, Community, and the Economy." Ninth Annual Meeting of the Michigan Council for Arts and Cultural Affairs sponsored by the

- Michigan Department of History, Arts, and Libraries and the Department of Consumer and Industry Services. December 11, 2003, Lansing, MI.
2003. 2003 Annual Meeting of the Association of American Geographers. March 4-8, New Orleans, LA.
2002. 2002 Annual Meeting of the East Lakes Division of the Association of American Geographers. October 18-19, Mount Pleasant, MI.
2002. American Planning Association's 2002 National Planning Conference. April 13-17, Chicago, IL.
2001. "Charting the Course." Michigan Society of Planning Annual Conference, October 25-27, Grand Hotel, Mackinac Island, MI.
2000. "Making It Happen." Michigan Society of Planning Annual Conference, October 19, Boyne Highlands Resort, Petoskey, MI.
2000. 95th Annual Meeting of the Association of American Geographers, Pittsburgh, PA.
1997. 93rd Annual Meeting of the Association of American Geographers, Fort Worth, TX.
1995. 91st Annual Meeting of the Association of American Geographers, Chicago, IL.
1994. 90th Annual Meeting of the Association of American Geographers, San Francisco, CA.
1994. International River Quality Symposium, Portland, OR.

Workshops/Seminars/Webinars

2020. "Fixing Higher Ed's Inequities in a Time of Crisis." A Chronicle of Higher Education Virtual Forum #FacultyResilience. April 16, 2020.
2019. MacMillan "Geography Teaching and Learning Webinar." June 20, 2019.
2019. Community Builders Webinar: "The Climate Connection: How a lack of housing affordability is driving climate change." April 26, 2019.
2018. Completed "Drivers Safety for Campuses" training and certification, Risk Management and Tort Defense Division, Montana Department of Administration. Payne Family Native American Center, University of Montana, June 18, 2019.
2018. "Pacific Northwest Coast Landscape Conservation Design" webinar. December 6, 2018.
2018. Community Builders Webinar: "Neighborhood Revitalization, One Block at a Time." May 30, 2018. Available: Coming.
2018. Community Builders Webinar: "Parking Session Two: Supporting Great Places and Thriving Downtowns Through Strategic Parking." April 25, 2018. Available: <https://communitybuilders.org/how-we-help/webinars/parking-session-two>.
2018. National Academies of Sciences Board on Earth Sciences and Resources (BESR) Webinar: "Cascadia Megaquake - Part 3 - Earthquake Early Warning and Tsunami Modeling." March 23, 2018. Available: http://dels.nas.edu/resources/static-assets/besr/miscellaneous/BESR%20Webinar/BESR_Webinar_Mar18.pdf.
2018. Community Builders Webinar: "Parking Session One: Strategic Parking Management Basics for Small Communities." February 21, 2018. Available: <https://communitybuilders.org/how-we-help/webinars/parking-session-one>.

2017. "Pacific Northwest Coast Landscape Conservation Design" webinar. March 16, 2017.
2017. Community Builders Webinar: "Resiliency Planning for Better Communities and Stronger Local Economies" February 22, 2017. Available: <https://communitybuilders.org/how-we-help/webinars/resiliency-planning-for-better-communities-and-stronger-local-economies>.
2015. Native Cultural Competence Training, UM College of Forestry and Conservation and College of Arts and Sciences Sponsored Workshop (conducted by Ruth Swaney and Kevin Kickingwoman), Sessions 1 & 2, October & November, 2015.
2015. MEA-MFT Regional Training, Missoula, MT, May 1-2, 2015.
- 2012-13. National Education Association's Emerging Leaders Academy, Washington D.C., June 20-24, Tallahassee (FL) November 2-6, 2012, Portland (OR) March 21-24, 2013.
2012. Advanced Negotiation Skills Workshop, Cornell University School of Industrial and Labor Relations, September 10-30, 2012.
2011. University of Montana's "Greenthread Workshop – Teaching Sustainability Across the University Curriculum" (5/17-5/19/2011).
2008. State of Montana Defensive Driving Course (Van Training) (6/18/2008).
2008. UM's ORSP Principal Investigator Training (1/14/2008).
2007. "MS Access – Basics," February 20-23, 2007, Information Technology Office, The University of Montana.
2005. "Introduction to CommunityViz", February 24-25, 2005, Broomfield, Colorado.
2003. "Geostatistical Analysis of Spatial Data", TerraSeer Training Workshop, March 12-13, 2003, Michigan League, Ann Arbor, MI.
2002. Association of College and University Offices NSF Course, Curriculum and Laboratory Improvement Program (Adaptation and Implementation Track) Proposal Development Workshop. September 27, 2002, Washington, D.C.
2002. MultiGen-Paradigm - Introduction to 3D-GIS and Urban Simulation. APA National Planning Conference Hands-on Seminar, Chicago, IL, April 17, 2002.
2001. "May Grant Writing Workshop." Office of Research and Sponsored Programs, Central Michigan University, May 8-10, 2001.
2000. "Stepping out from Behind the Podium: Principals of Effective Teaching." Workshop for new CMU Faculty presented by Sue Steffel, English, and organized by Darby Gwisdala, Special Assistant to the Provost, November 15, 2000.
2000. "In This Together." Professional and Career Development Workshop, Central Michigan University, November 3, 2000.

Professional Affiliations

- 1992- Association of American Geographers (renamed American Association of Geographers in 2016).
- 2013- National Council for Higher Education, National Education Association.
- 2011- American Fisheries Society & Montana Chapter of AFS
- 2000-2009 American Planning Association
- 2005-2007 Planners' Network

1992-2000 Association of Pacific Coast Geographers

Professional, Public, and University Service:

Professional Service

2020. Review of Dr. Geoffrey Mukwada (University of the Free State, South Africa) for the South Africa National Research Foundation (NRF) researcher rating and certification, June 18, 2020.
2020. Active Learning Paper Session Moderator, Biennial Conference on University Education in Natural Resources (BCUENR), University of Montana, Missoula, Montana, March 12-14, 2020.
2019. Review and consultation service (with Dr. Sarah Halvorson) regarding Montana multi-hazard mitigation planning provided to Bryan Mentlik, Mitigation Champion for FEMA Region VIII Mitigation Planning Program (Denver), November 25th, 2019.
2018. Reviewer, *The National Flood Insurance Program's Community Rating System: Examining Participation in Ocean County*, New Jersey (Manuscript number LUP_2017_1578). Manuscript submitted to the journal *Land Use Policy* (1/28/18).
2017. Presentation – *The Future of Labor Relations*. Labor Relations and Arbitration Conference, Learning from the Past, Planning for the Future. Montana Department of Labor & Industry. Bozeman, MT, September 27-28, 2017.
2017. Reviewer, Understanding the patterns and drivers of air pollution on multiple time scales: The case of northern China (Manuscript Number EMVM-D-17-00130). Manuscript submitted to the journal *Environmental Management* (7/12/17).
2016. Reviewer, Climate change, water management and allocation in the Dongjiang River basin in South China. Manuscript submitted to the *International Journal of Water Resources Development* (7/8/16).
- 2013-16 Chairperson, Coalition of Union Faculty, MEA-MFT.
- 2012-16 Member, Board of Directors, MEA-MFT.
- 2014-16 Member, Budget Committee, MEA-MFT Board of Directors.
- 2015-17 Appointed Member, Higher Education Program & Policy Council, American Federation of Teachers (Council meets in Washington, D.C. twice per year and once at the AFT Higher Education Conference).
2015. Member, MEA-MFT Teacher of the Year Steering Committee (August-September, 2015).
- 2015-16 Member, MEA-MFT Board Reorganization Task Force (July 29, 2015, forward).
- 2015- Member, Council of Advisors, Ethics & Treaty Project (see <http://www.celp.org/programs/crt/ethics-treaty-project/>).
2015. Reviewer, “Planetary Human Geography.” Textbook proposal, Oxford University Press (2/5/15).

2015. Field trip guide - UM Department of Geography (facilities and programs) and Milltown Dam removal project & Montana water issues. Intermountain West Fieldtrip (GEOG 380 – Augustana University), Matt Fockler and Jenny Burnham (Faculty) and eight Augustana students (5/31/15).
2015. “Faculty Salary Depression in the Montana University System – A Brief Synopsis.” Presentation to the Montana University System Board of Regents, Kalispell, MT, May 21, 2015.
2014. Reviewer, “Evaluation of methods for delineating potential riparian zones in semi-arid montane regions.” Manuscript submitted to the *Journal of the American Water Resources Association* (12/13/14).
2014. Reviewer, NSF Proposal 1433176, Geography and Spatial Sciences Program. May, 2014.
- 2012-2014 Member, Board of Directors Constitution & Policies Committee, MEA-MFT.
2013. External review of scholarship record (for purpose of promotion), Dr. William Gribb, University of Wyoming, Laramie. November 11, 2013.
2012. Presentation on *Water Resource Issues in Southwestern Montana* at the Southwest Montana Planning Workshop, Deer Lodge, August 29, 2012.
2011. Reviewer, “Non-motorized winter recreation impacts to snow melt erosion, Tronsen basin, Eastern Cascades, Washington.” Manuscript submitted to *Environmental Management* (12/19/2011 & 8/19/12).
2011. Reviewer, “Urban impacts on streams are scale-dependent and geomorphic stabilization leads to biotic recovery: evidence from Vermont, U.S.A.” Manuscript submitted to the *Journal of the American Water Resources Association* (4/12/2011).
- 2011-12. Member, Steering Committee for Universities Consortium on Columbia Basin Governance, 2011 and 2012 Symposia.
- 2011-12. Member, Steering Committee, Campaign for the Future of Higher Education.
2010. Field trip guide – Mission Valley Montana. National Conference on Undergraduate Research, University of Montana, Missoula, April 17, 2010.
2010. Paper Session Moderator, the Clark Fork Symposium, a conference convened by UM’s Environmental Studies Program, March 5, 2010, University of Montana.
2010. Coordinated the *Clark Fork River Basin 2010 Roundtable*. The conference was co-convened by The University of Montana’s Department of Geography, the Clark Fork River Basin Task Force, and the Montana Department of Natural Resources and Conservation, and funded by the Montana Department of Natural Resources and Conservation, University Center Theater, UM, Missoula, March 4, 2010.
2009. Reviewer, “Assessment of the Global and Regional Importance of Missing Atmospheric Oxidants, the Hydro Oxygens; Are they more Important to Earth’s Ecosystems’ Stability and Economy than currently thought? Introduction of a “Snowball Earth Protocol,” an anonymous manuscript submitted to *Journal of Ecology, Ecosystems, and Ecophysiology*, a Science Journals International open access publication, October 15,

2009. Coordinated the *Montana Conjunctive Water Management Conference*, and edited the Proceedings. Conference was co-convened by The University of Montana's Department of Geography, the Clark Fork River Basin Task Force, and the Montana Department of Natural Resources and Conservation, and funded by the Montana Department of Natural Resources and Conservation
2009. Coordinated the *Clark Fork River Basin Roundtable*, and edited the Proceedings. The conference was co-convened by The University of Montana's Department of Geography, the Clark Fork River Basin Task Force, and the Montana Department of Natural Resources and Conservation, and funded by the Montana Department of Natural Resources and Conservation, University Center Theater, UM, Missoula, May 6, 2009.
2009. Reviewer: Sonoran Institute Growth Model, February 24, 2009.
2009. Reviewer: National Fish and Wildlife Foundation Grant Application (No. 2148), Montana Water Trust (Applicant), February 21, 2009.
2008. Poster Judge, Montana Section of the American Water Resources Association's 25th Annual Conference, Water Sustainability: Challenges for Montana, October 2 and 3, 2008, Big Sky, Montana.
2008. Coordinated the *Water Supply and Growth in the Clark Fork River Basin Conference*, and edited the Proceedings. Conference was co-convened by The University of Montana's Department of Geography, the Clark Fork River Basin Task Force, the Montana Department of Natural Resources and Conservation, and the Montana Department of Environmental Quality, and funded by the Montana Department of Natural Resources and Conservation, University Center Theater, UM, Missoula, March 10-11, 2008.
- 2007-10. Member of the Editorial Review Board of Science Journals International.
2007. Reviewer: "On development of a search engine for geodata." Anonymous manuscript submitted to *Journal of Geography and Geospatial Information Science*, a Science Journals International open access publication, July 2007.
2007. Reviewer: National Fish and Wildlife Foundation Grant Application (No. 14874), Montana Water Trust (Applicant), June 13, 2007.
2007. Reviewer: "The Greater Yellowstone Ecosystem: Challenges for Regional Ecosystem Management." Manuscript by Lynch et al., submitted to *Environmental Management*. First review submitted June 10, 2007. Second review submitted August 5, 2007.
2006. Coordinated the *Groundwater Policy Conference*, co-convened by The University of Montana's Department of Geography and the Clark Fork Task Force, and funded by the Montana Department of Natural Resources and Conservation, University Center Theater, UM, Missoula, November 9, 2006.
2006. Reviewer: Bureau of Reclamation Research Office Science and Technology Research Grant Proposal #28. September 18, 2006.
2006. Poster Judge, UM CAS Graduate Student and Faculty Research Conference, Missoula, April 8, 2006.
2005. Reviewer: *Globalization and Diversity* (1st Ed.), by Rowntree, Lewis, Price and Wyckoff, Prentice Hall. Reviewed October, November, 2005.

2005. Reviewer: “Yellowstone Winter Use Personal Exposure Monitoring; Final Report” (submitted to Yellowstone National Park), Terry M. Spear and Dale J. Stephenson. Invited review submitted August 14, 2005.
2005. Reviewer: “National Parks are for People: Snowmobiles and Automobile Tourism are Essential Forms of Personal Freedom. Manuscript by Kenneth A. Barrick, University of Alaska Fairbanks, submitted to *Environmental Management*. Review submitted August 13, 2005.
2004. External review of scholarship record (for purpose of promotion), Dr. Joshua Viers, University of California, Davis. October 5, 2004.
2004. Judge, National Geographic Society’s 16th Annual Michigan State Finals of the National Geography Bee. April 2, 2004.
2004. Reviewer, *Environmental Geography: Science, Land Use, and Earth Systems* (3d-Wiley) by William M. Marsh and John Grossa, Jr.
2003. Judge, National Geographic Society’s 15th Annual Michigan State Finals of the National Geography Bee. April 4, 2003.
- 2001 – 2003. Education Committee member, Michigan Planning Society.
2002. Paper/Manuscript Review, *Great Lakes Geographer*.
2000. Session Chair, Water Resources Specialty Group. 95th Annual Meeting of the Association of American Geographers, Pittsburgh, PA.
1994. Session Chair: Water Resources Specialty Group Paper Session, 90th Annual Meeting of the Association of American Geographers, San Francisco, CA.

Public Service

- 2017- Member and Acting Chair, Executive Committee, Clark Fork & Kootenai River Basins Council.
2018. David Shively. Annual Meeting of the Clark Fork and Kootenai River Basins Council. Organizing Committee. April 16th & 17th, University of Montana, Missoula, Montana.
2018. David Shively. Planning Committee (January-April, 2018), One River – Ethics Matter: Western Montana. 5th annual international ethics conference on the past and future of the Columbia River. Planning Committee. April 11, 2018, University of Montana, Missoula, Montana. (<https://celp.org/ethics-montana/>).
2017. Secretary-Treasurer, Missoula Area Central Labor Council, AFL-CIO.
2015. Presentation on “Water for Life” to Model United Nations General Assembly, University of Montana, November 23, 2015.
2010. Presentation on “Ethnopolitical Geography of Post-War Europe” to Sussex School’s 8th Grade class, March 12, 2010.
2009. Co-sponsored, with Michelle Bryan-Mudd (UM School of Law) and Matt McKinney (UM Center for Natural Resources and Environmental Policy), Bill Roper’s (CEO and President of the Orton Family Foundation) Lecture on The Heart and Soul of Community Planning, UM School of Law, October 28, 2009.

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- 2008-10. Secretary (Officer) of Board of Directors, The Sussex School, Missoula, Montana.
2009. Conducted four GPS active learning activities with 4-8 grade members of the Tech Club at Sussex School, January and February 2009 (8 hours).
2008. Conducted a hydrologic field study for Kim Grenager and compiled the results into a report entitled "Report of Field Observations of an Un-named Spring and Tributary to John Creek, Tributary to Lolo Creek, Bitterroot River Basin, Montana" for submission to the Montana Department of Natural Resources and Conservation's Forestry Division (June 12, 2008).
2007. Presentation on "Westward Expansion" to Mrs. McFarland's 5th Grade Class, Franklin Elementary School, May 25, Missoula, Montana.
2007. Participant and Presenter in Land Use Working Group, Bitterroot Economic Development District (Regional Economic Development Organization), January – March, 2007.
2006. Presentation on "Water Right Marketing in New Mexico – Implications for Montana and the West" to the Clark Fork Water Management Plan Task Force, April 4, 2006, Missoula, Montana.
2006. Presentation on "Hispano Identity in New Mexico's Upper Río Grande Basin" to Mrs. Lind's Fourth Grade Class, Franklin Elementary School, March 14, 2006. Missoula, Montana.
- 2005-06. Facilitated development of "GreenMap" for Missoula Urban Demonstration Project. Project work was undertaken by several geography graduate and undergraduate students.
2005. Alternate Council Member, Missoula County Air Quality Advisory Council.
2005. Co-Instructor (with Rick Graetz), "Montana History," Missoula County Public School District Continuing Education Workshop, January 10, 2005.
2005. Presentation on "Missoula's History" to Ms. Palen's Third Grade Class, Franklin Elementary School, April 20, 2005. Missoula, Montana.
2005. Presentation on "Maps" to Mrs. Flander's First Grade Class, Franklin Elementary School, April 30, 2005. Missoula, Montana.
2003. Resource Group participant, Saginaw Bay Watershed Initiative Network Resource Group Meeting, November 22, 2003. Blintz Apple Mountain Conference Center, Freeland, MI.
2003. GIS Support, USFWS Interpretive Trail Concept Plan, Bridgeport & Warner Tracts, Shiawassee National Wildlife Refuge.
2002. Saginaw Bay Greenways Collaborative Tri-County Greenways Charette, November 6, 2002. Midland's Center for the Arts, Midland, MI.
2002. Resource Group participant, Saginaw Bay Watershed Initiative Network Resource Group Meeting, October 17, 2002. Delta College Planetarium and Learning Center, Bay City, MI.
2002. Principal Investigator and GEO 575-B Course Project Director - "Tittabawassee River Corridor Greenways Compatibility Analysis." Build-out and land use policy analysis conducted for the Saginaw Greenways Collaborative organization.
2002. GPS/GIS Consulting and Fieldwork - Friends of the Shiawassee's *Great Lakes Discovery Center* Site Design.

- 2001-2004. Water Resources Task Group member, Saginaw Bay Watershed Initiative Network.
2002. Resource Group participant, Saginaw Bay Watershed Initiative Network Resource Group Meeting, May 7, 2002. Saginaw Valley State College, MI.
2001. Resource Group participant, Saginaw Bay Watershed Initiative Network Resource Group Meeting, May 3, 2000. Bay City, MI.
2000. Resource Group participant, Saginaw Bay Watershed Initiative Network Resource Group Meeting, October 25, 2000. Midland, MI.
2002. Guest on Editor's Notepad, CMU Public Television (WCMU), April 26, 2002 (April 26 & 28, 2002, broadcasts).
2002. Interview with Susan Wronski of CMU Public Radio (WCMU), April 25, 2002 (broadcast April 29 - May 3, 2002).
2001. CMU Faculty Expert. Interviewed for, and extensively quoted in, three separate articles on "Sprawl" published in the *Midland Daily News*, 2/25/01 - 3/1/01, and for a "Water Constancy" article in the *National Geographic* magazine.

University Service

University of Montana

- 2018-19 W. A. Franke College of Forestry and Conservation Service (Chairs, Executive Council, Undergraduate Affairs, Recruitment, and Retention Committees).
- 2016- Chairperson, Department of Geography. Important activities in addition to regular responsibilities: authored Program Review Self Study Report (2019), lead co-author of Unit Standards revisions (2018-20), authored Instructional Budget Plan (2018), principal author (85%) of Academic Program and Administrative Services Prioritization Report (2018), authored 2018 Assessment Report, lead co-author of 2016 Assessment Report.
2017. UM CH&S William Reynolds Award for Excellence in Teaching across the Curriculum Selection Committee.
2016. UM University Faculty Association Executive Board Member at Large (Fall 2016).
- 2012-16 President, UM University Faculty Association.
- 2015-17 Member, Montana University System Inter-Unit Benefits Committee.
- 2013-16 Associate Chairperson, Department of Geography.
- 2014-15. Member, UM University Faculty Association Bargaining Team.
- 2015-16. Co-Chair, Assistant Professor in Geography Search Committee.
- 2014-15. Co-Chair, Administrative Associate III, Geography, Search Committee.
- 2014-15. Co-Chair, Visiting Assistant Professor in Geography Search Committee.
2015. Water Policy Faculty Search Assistance, Department of Society & Conservation, College of Forestry and Conservation – Conducted four interviews with visiting candidates.
2015. Represented Geography Department at UM Days (April 10, 2015).
2014. Member, Department of Geography Faculty Evaluation Committee.

2014. Paper Session Judge, UM Graduate Student Research Conference.
2014. Represented Geography Department at UM Days (February 14, 2014).
2013. Chair, Department of Geography Faculty Evaluation Committee.
2013. Performance based funding focus group, October 9, 2013.
2013. Represented Geography Department at UM Days (April 26 & May 3, 2013).
2012-13. Member, UM University Faculty Association Bargaining Team.
2012. Member, Vice President for Administration and Finance Search Committee.
2012-13. MontPIRG Faculty Advisor.
2012-13. Participant, UM EEO/AA Online Short Course Training Advisory Group.
2011-2012. UM Global Leadership Initiative Task Force.
2012-2013. Chair, UM Global Leadership Initiative Task Force's Models of Leadership Subcommittee.
2012-2013. Member, Asst. Prof. Cartography and Geographic Information Science Search Committee.
2011-2012. Chairperson, Asst. Prof. Cartography and Geographic Information Science Search Committee.
2011. Member, Department of Geography Faculty Evaluation Committee.
2011-12. Committee Member, UM Sustainable Campus Committee.
2011-12. Member at Large, UM University Faculty Association Executive Board.
2011-14. Senator, University of Montana Faculty Senate.
2011-12. Director of Graduate Programs, Department of Geography.
2011-12. Faculty Coordinator, Certificate in GIS Sciences and Technologies.
2011. Revised Geography Department Unit Standards, July-August, 2011.
2010. Principal author, UM Geography Department Assessment Report.
2010. UM Crown of the Continent Initiatives Retreat, June 3, 2010.
2010. Faculty Interpreter, People's Center Excursion, National Conference on Undergraduate Research, April 17, 2010.
2010. Committee Member, Energy Sciences & Engineering (ES&E) Awards Committee, Montana NSF EPSCoR Program.
2009. Chairperson, Department of Geography's Faculty Evaluation Committee.
2009. Revised Geography Department's Graduate and Undergraduate Programs Advising Guides.
2009. Geography Department Representative to UM Autumn Academic Convocation.
2009. Revised Geography Department's Assessment Plan.
2009. UM Days New Student Advising/Orientation (4/24/2009).
2008-2009. Faculty Member and Advisor, Natural Resources and Conflict Resolution Graduate Certificate Program.
2005-2008. Faculty Advisor and Ad Hoc Faculty Advisory Committee Member, the UM Center for Natural Resource and Environmental Policy and the Natural Resources Conflict Resolution Program.
2008. UM New Student Advising/Orientation (6/27/2008).
2008. Geography Undergraduate Group Advising (4/4/2008).
2007-08. Social and Behavioral Sciences GenEd Subcommittee.
2007-08. Social and Behavioral Sciences Subcommittee, ASCRC.

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2008. Presented Geography Department Diversity Plan to Campus-wide Diversity Planning Meeting (3/3/2008).
2008. UM New Student Orientation (1/17/2008).
2007. Developed Geography Department Diversity Plan (August-September, 2007).
2007. Geography Undergraduate Group Advising (10/24/2007).
2007. Represented Geography Department in UM Law School's Land Use Law Position hiring process as affected program (CEP M.A. Program).
2007. Geography Department FEC Member.
2007. Geography Department's SEC Faculty Observer.
- 2007- Chair, Geography Department Assessment Committee.
- 2007-2008. Member, Geography Department Masters Programs Restructuring Committee. Restructured existing degree program, adding M.S. degree and shifting options from M.A. to M.S. Submitted for ASCRC review in Fall, 2008.
2007. Updated and revised Geography Department Assessment Plan.
2007. Represented Geography Department at UM Days (October 19, 2007).
2007. Geography Department Representative, UM CAS Retention Planning Workgroup, Monday, April 30, 2007.
- 2006-07. UM General Education Social Sciences Perspective Assessment Committee.
2006. Geography Department's SEC Faculty Observer.
- 2006-09. Senator, University of Montana Faculty Senate.
2007. Participant, CAS Student Retention Working Group, April 30, 2007.
2006. Participant, Summer Institute on Assessment for General Education, July 19, 2006, Montana Island Lodge, Salmon Lake, Montana.
2005. Instructor, "Montana CERFC Alive Community Analysis Workshop," Office of Civic Engagement, University of Montana. October 22, 2005.
- 2004 - Coordinator, Community & Environmental Planning Program, Department of Geography.
2004. Instructor, "Montana VISTA Alive Community Analysis Workshop," Office of Civic Engagement, University of Montana. September 26, 2004.
- 2004 - Liaison to Environmental Studies Program.
- 2004-05 Integrated Forest Management Planning Position External Search Committee Member, College of Forestry and Conservation, University of Montana.
- 2004-05 Departmental activities: Department Review, Physical Geography Search Committee, UM Days Academic Fair Representative, Unit Standards Subcommittee.
- 2004 - University Faculty Association Departmental Representative.
- 2004-2005 Departmental representative to UM Days Academic Fair, Fall Semester, 2004 & 2005.

Central Michigan University

- 2003-04. CST Curriculum Committee, Central Michigan University.

- 2002-04. Geographic Information Science Graduate Committee, Department of Geography, Central Michigan University.
- 2001-04. Committee Member - Environmental Studies Council, Central Michigan University.
- 2000-04. Secretary – Assessment, Curriculum, and Planning Committee, Department of Geography, Central Michigan University.
- 2000-04. Faculty Advisor to the Student Geography Club, a CMU Student Organization.
2003. CST Brown Bag Seminar Co-Presenter, “National Science Foundation’s Course, Curriculum, and Laboratory Improvements Grant Program: Overview and Recent ST Proposals. September 26, 2003.
- 2002-03. Chair - Faculty Teaching and Program Development Committee, Central Michigan University (2001 – 2004 Committee Appointment).
2003. Faculty Representative, Summer Graduation Commencement Ceremony, Central Michigan University, August 2, 2003.
2001. Coauthored with Dr. Mark Francek: "Central Michigan University Department of Geography" Description published in *2001-2002 Guide to Geography Departments in the United States and Canada*. Association of American Geographers, Washington, D.C.
2000. University Program Subgroup III-B Assessment Planning Group participant, Central Michigan University, Fall/Spring Semester.
2001. Department of Geography Faculty Representative, College of Science and Technology, *CMU and You Day*, September 22, 2001 Central Michigan University.
2000. Department of Geography Faculty Representative, College of Science and Technology, *CMU and You Day*, September 23, 2000, Central Michigan University.
2002. Coordinated Annual Geography Department Picnic and Retreat, Libbee-Sheridan Residence, August 22.
2001. Coordinated Annual Geography Department Picnic and Retreat, Chippawaters Park, August 30.
2000. Department of Geography Faculty Representative, College of Science and Technology, CST Homecoming Hospitality Tent, October 7, 2000, Central Michigan University.

Academic Advising & Student Mentoring:

UM Graduate Student Advising

Completed Theses & Professional Papers as Committee Chair (Reverse Chronological):

2020. Sofronio Propios III, *Characterizing Burn Severity of Beetle-Killed Forest Stands Leveraging Google Earth Engine-Derived Normalized Burn Ratios*. M.S. Thesis, Department of Geography, University of Montana, April, 2020.

2019. Andrew Nemecek, *Utilization of Various Methods and a Landsat NDVI/Google Earth Engine Product for Classifying Irrigated Land Cover*. M.S. Thesis, Department of Geography, University of Montana, January, 2019.
2017. Nathanael Wold, *Participatory Web GIS Design – A Sustainable Recreation Decision Support System for Missoula County*. M.S. Thesis, Department of Geography, University of Montana, August, 2017.
2017. Chelsea Karthaus, *Performing Whale Watching in Juneau, Alaska*. M.S. Thesis, Department of Geography, University of Montana, June, 2017.
2015. Andrew Myers, *Remaking Nature in Montana: Topophilic Considerations of Wolves and Wolf Trapping*, M.A. Thesis, Department of Geography, University of Montana, October, 2015.
2015. Dan Kozel. *Assessment Of Avalanche Mitigation Planning For Developed Areas in the Rocky Mountains of Colorado*, M.S. Professional Paper (CGIS option), Department of Geography, University of Montana, August, 2015.
2015. Alma Pacheco, *The Habitat Of European Brown Bears In Northern Spain: Mapping Habitat Fragmentation And Potential Connectivity*, M.S. Thesis, Department of Geography, University of Montana, June, 2015.
2014. Matthew Heimel, *Testing The Utility Of Environmental Cluster Analysis Based Upon Biodiversity Surrogates Within Geographic Information Systems For Conservation Planning: A Case Study Of Inland Temperate Rainforest In The Northern Rocky Mountains*, M.S. Thesis, Department of Geography, University of Montana, October, 2014.
2014. Morganne Lehr, *Modeling Northern Goshawk (Accipiter Gentilis) Nesting Habitat On The Lewis And Clark National Forest Using Eigenvector Filters To Account For Spatial Autocorrelation*, M.S. Thesis, Department of Geography, University of Montana, September, 2014.
- 2014 Michael Eduful, *Impacts of Urban Land Use Change on Sources of Drinking Water in Kumasi, Ghana*, M.S. Thesis, Department of Geography (CEP Option), University of Montana, May, 2014.
- 2013 Stephen Joseph Touzel, *Mapping the Distribution and Abundance of Western Larch with Multi-temporal Satellite Imagery and Gradient Modeling*, M.S. Thesis, Department of Geography, University of Montana, August, 2013.
- 2013 Tristan Howard, *Regional Comparison of Wild-Domestic Sheep Interaction Management Policies in Bighorn Sheep Disease Outbreak Locations in the Continental U.S. from 1990-2010*, M.S. Thesis, Department of Geography (CEP option), University of Montana, May 2013.
- 2010 Joel Brown, *Irrigators' Vulnerability to Drought in the Flathead River Basin, Montana*. M.S. Thesis, Department of Geography, The University of Montana, June 2010.
- 2010 Tina Erickson, *The value of a Neighborhood School: The Story of Paxson Elementary, Missoula, Montana*, M.S. Thesis, Department of Geography (CEP Option), The University of Montana, June 2010.
- 2010 Jacob Petersen-Perlman, *An Assessment of Municipal Water Systems and Water Rights in the Clark Fork River Basin*, M.A. Thesis, Department of Geography (CEP Option), The University of Montana, June 2010.

- 2010 Jeffrey Kaiden, *An Assessment of the Viability of Landscan Data to Estimate Structure Location in Wildland Fire Management and Planning*. M.S. Thesis, Department of Geography (CGIS Option), The University of Montana, January, 2010.
- 2010 Kyle Balke, *Perception and Role of 3D Visualizations in Planning: A Case Study of the Northwest Passage Scenic Byway's Viewshed Protection and Visualization Project*. M.S. Thesis, Department of Geography (CGIS Option), The University of Montana, January, 2010.
- 2009 Lawrence (Allen) Byrd, III, *The Public Land Manager in Collaborative Conservation Planning: a Comparative Analysis of Three Case Studies in Montana*. M.A. Thesis, Department of Geography (CEP Option), The University of Montana, May, 2009.
- 2008 Gregory Lewis, *The Role of Brownfields Redevelopment in the Rejuvenation of an Older Industrial City: A Case Study of Two Successful Brownfields Reuse Projects in Baltimore, Maryland*. M.A. Thesis, Department of Geography, The University of Montana, May, 2008.
- 2007 Chad Newman, *Small-Hydroelectricity and Landscape Change in the Bitterroot Mountains: Public Perceptions and Attitudes*. M.A. Thesis, Department of Geography (CEP Option), The University of Montana, December, 2007.
- 2007 Bret Magdasy, *Comparison of Two Different Flow Routing Algorithms For Detection of Ephemeral Streams in a Mountainous Watershed Using Remotely Sensed Imagery*. M.A. Thesis, Department of Geography, The University of Montana, January, 2007.
- 2006 Speer, Brian. *Participatory Planning and Neighborhood Councils: A Neighborhood's Infrastructure Plan in Missoula, Montana*. M.A. Thesis, Department of Geography (CEP Option), The University of Montana, August, 2006.
- 2006 Coleman, Nikole. *Collaborative Planning and Public Participation in the Review and Update of the Critical Areas Ordinance in Whatcom County, Washington*. M.A. Thesis, Department of Geography, The University of Montana, May, 2006.

Completed Non-Thesis Track Graduate Students

2019. Hillary Sward, M.S. Portfolio/Comprehensive Exam, Geography, Department of Geography, University of Montana, June 2019 (Committee Member).
2019. Laura Zanolli, M.S. Portfolio, Environmental Studies, University of Montana, May 2019 (Committee Member).
2019. William Henry, M.S. Portfolio/Comprehensive Exam, Geography (CEP Option), Department of Geography, University of Montana, May 2019 (Committee Chair).
2019. Lauren Mackey, M.S. Portfolio/Comprehensive Exam, Geography, Department of Geography, University of Montana, January 2019 (Committee Member).
2019. Craig Koller, M.A. Portfolio/Comprehensive Exam, Geography, Department of Geography, University of Montana, January 2019 (Committee Chair).
2018. Nick Zanetos, M.S. Portfolio/Comprehensive Exam, Geography (CEP Option), Department of Geography, University of Montana, May 2018 (Committee Member).

- 2018. Sarah Smolka, M.S. Portfolio/Comprehensive Exam, Geography (CGIS Option), Department of Geography, University of Montana, April 2018 (Committee Chair).
- 2017. Scott Ankney, M.S. Portfolio/Comprehensive Exam, Geography (CEP Option), Department of Geography, University of Montana, May, 2017 (Committee Chair).
- 2013. Christine Dascenzo, M.S. Portfolio/Comprehensive Exam, Geography (CEP Option), Department of Geography, University of Montana, August, 2013 (Committee Member).
- 2011. Ben Weiss, M.S. Portfolio/Comprehensive Exam, Geography (CEP Option), Department of Geography, The University of Montana, January, 2013 (Committee Member).
- 2011. Josh Hazard, M.S. Portfolio/Comprehensive Exam, Geography (CEP Option), Department of Geography, The University of Montana, November, 2011 (Committee Chair).
- 2011. Marcus Reddish, M.S. Portfolio/Comprehensive Exam, Geography (CGIS Option), Department of Geography, The University of Montana, July, 2011 (Committee Chair).
- 2010. Matthew Benton, M.S. Portfolio/Comprehensive Exam, Geography (CEP Option), Department of Geography, The University of Montana, June, 2010 (Committee Chair).
- 2010. Sean Carlson, M.S. Portfolio/Comprehensive Exam, Geography (CEP Option), Department of Geography, The University of Montana, May, 2010 (Committee Chair).
- 2010. Peter Rahn, M.S. Portfolio/Comprehensive Exam, Geography (CEP Option), Department of Geography, The University of Montana, May, 2010 (Committee Chair).
- 2010. Gregory McNally, M.S. Portfolio/Comprehensive Exam, Geography (CEP Option), Department of Geography, The University of Montana, January, 2010 (Committee Member).

Theses/Dissertations/Professional Papers in Progress (Reverse Chronological):

- 2019 - Joe Dehnert, M.S. Candidate, Geography (Advisor/Committee Chair). *A Hand-Held, Structure from Motion, Photogrammetric Approach to Riparian and Stream Assessment and Monitoring.*
- 2017- Joe Offer, M.S. Candidate, Geography, University of Montana (Advisor/Committee Chair). *Land Characteristics and Potential for Protection of Grizzly Bear Migration Corridors between the Northern Continental Divide and the Greater Yellowstone Ecosystems.*

Proposals in Progress (Alphabetical):

Committee Service - Completed Dissertations, Theses, Professional Papers, Portfolios (Reverse Chronological):

2019. Ian Thomsen, *Tectonic Geomorphology of the Clark Canyon Reservoir Area, Beaverhead County, Montana.* M.S. Thesis, Department of Geosciences, University of Montana, May 2019.
2018. William Schroeder, *Of Ruptures and Raptures: Locating Ideology with LIDAR Imagery,* Ph.D. Dissertation, Department of Anthropology, UM, December, 2018.
2018. Kaitlin McCafferty, *Zoning to Protect Farmland: A Case for Missoula County.* M.S Professional Paper, Environmental Studies Program, June, 2018.
2018. Garrett McCallister, *Science, Advocacy, Policy, Planning: Tools for Advancing Transportation Equity.* M.S. Professional Paper, Environmental Studies Program, June, 2018.
2018. Ashley Juric, M., *Managing Mining Pollution: The Case of Water Quality Governance in the Transboundary Kootenai/Y.* M.S. Thesis, Department of Geography, June, 2018.
2018. Jedd Sankar-Gorton, *Forty Years on the Transboundary Flathead: Assessing Environmental Governance Responses to the Threat of Coal Mining.* M.S. Thesis, Department of Geography, June, 2018.
2017. Nick Kline, *Utilization of Landsat Imagery and Google Earth Engine to Assess the Impacts of Oil and Gas Extraction on the Tazovsky Penninsula, Siberia.* M.S. Thesis, Department of Geography, August, 2017.
2015. Sophia Albov, *(Re)Localizing Finland's Foodshed: Grassroots Movements In Food Distribution And Urban Agriculture.* M.S. Thesis, Department of Geography, December, 2015.
2015. Gabrielle Ostermayer, *Legal Tools for Local Control of Oil & Gas Development: Successes, Challenges, and Opportunities – Focusing on Select States in Eastern and Western U.S. with current and potential Oil/Gas Development.* M.S. Professional Paper, Environmental Studies, December, 2015.
2014. Bill Kleindl, *Assessing Ecological Condition Of Large Landscapes With Limited Human Impacts.* Ph.D. Dissertation, Systems Ecology Program, December, 2014.
2014. Kate Walker, *The Missouri Compromised.* M.A. Professional Project, Environmental Science and Natural Resource Journalism, May, 2014.

2013. Yvonne Soravacu, *Putting Scientific Information into the Service of Environmental Justice for Residents Facing Groundwater Contamination*. M.A. Professional Paper, Environmental Studies Program, May, 2013.
2012. Mitchell Fyock, *Geomorphological Mapping of High Mountain Environments in the United States*, M.S. Thesis, Department of Geography, May, 2013.
2012. Anthony Berthelote, *Forecasting Groundwater Responses to Dam Removal*, Ph.D. Dissertation, Department of Geosciences, March, 2012.
2012. Adam Johnson, *Effect of Large Vegetation on Soil Moisture Distributions in a Naturally Vegetated Mountain Catchment*, M.S. Thesis, Department of Geosciences, September, 2012.
2012. Adam Clark, *Quantifying Glacier-derived Summer Runoff in Northwest Montana*, M.S. Thesis, Department of Geosciences, September, 2012.
2012. Jesse Wallace, *Quantifying the Environmental Impacts of Natural Gas Development on the Tazofsky Peninsula, Russia*, M.S. Thesis, Department of Geography, The University of Montana, June, 2012.
2011. Joseph Husar, *Rural Community Vitality in the Cases of Fort Benton, Montana, and Watford City, North Dakota*, M.S. Thesis, Department of Geography, The University of Montana, May 2011.
2010. Laura Lundquist, *First in Right: the Keystone of Water Rights Law Presents and Faces Challenges in a Populated West*, M.A. Professional Paper, School of Journalism, The University of Montana, May 2010.
2010. Hanson Nyantakyi-Frimpong, *Diversifying Rural Livelihoods to Conserve and Restore Biodiversity of the Lake Bosomtwe Basin, Ghana*, M.A. Thesis Department of Geography (CEP Option), The University of Montana, May 2010.
2010. Andrew Fischer, Forestry, *Recommendations for Instream Flow Rights on National Forest Lands in Montana*, M.A. Professional Paper, Department of Resource Conservation, College of Forestry and Conservation, The University of Montana, May 2010.
2009. Katie Gaut, *Application of the Nonpoint Source Pollution and Erosion Comparison Tool (N-SPECT) Model for Resource Management in the Waiulaula Watershed, Island of Hawai'i*. M.S. Thesis, Tropical Conservation Biology and Environmental Science, University of Hawai'i, Hilo, February, 2009.
2008. Erin Nock, *A Simple GIS Approach to Predicting Rare Plant Habitat: North Central Rocky Mountains, United States Forest Service, Region One*. M.A. Thesis, Geography, The University of Montana, May, 2008.
2008. Michelle Johnson, *Perceptions of Borough Incorporation Held by Community Leaders in Delta Junction, Alaska*. M.A. Thesis, Sociology, The University of Montana, May, 2008.
2007. Jamie Silberberger, M.A. Candidate, *Reducing Dental Mercury Discharge in Missoula, Montana: Collaborative Opportunities*. Professional Paper, Environmental Studies, The University of Montana, May 2007.
2007. Benjamin Ravitz, *A Spatiotemporal Analysis of Army Base Distributions in the Contiguous United States From 1800 to 1900*, M.A. Thesis, Geography, The University of Montana, December, 2007.
2007. David Scott Kennedy, M.S. Candidate, *Moving Boxes Closer to Home: Embeddedness, Corporate-Mediated Marketing, and the Role of SYSCO*

- Corporation in Food System Localization*, M.S. Thesis, Environmental Studies, The University of Montana, May, 2007.
2006. Frederick Harris, *Exploring Native American Folklore: Little People and Giants*. M.A. Thesis, Geography, The University of Montana, May, 2006.
2006. Kristin Smith, *Land Use Controls in Montana: An Analysis of Factors Affecting Policy Adoption of Countywide Zoning*, M.A. Thesis, Geography, The University of Montana, May, 2006.
2005. Emily Brown, *Incorporating Ecological Principles Into Montana's Local Land Use Planning: A Way to Contribute to the Protection and Management Of Ecological Systems*, M.S. Professional Paper, Forestry (Resource Conservation), The University of Montana, December, 2005.
2005. Brian Petersen, *The Fryingpan Arkansas Project: A Political, Economic and Environmental History*, M.A. Thesis, History, The University of Montana, December, 2005.
2005. Wendy Stokes, *Kern river 2003 Expansion Project*, Vol. 3, Ch. 2, March 2005, M.A. Professional Portfolio, Anthropology, The University of Montana, December, 2005.
2005. Alex Philp, *The Lewis and Clark Geosystem: A Distributed Historical Geospatial Application*, Ph.D Dissertation, IIP, The University of Montana, June, 2005.

Other Graduate Student Advising

2011. Ryan Arthun, M.A. Candidate, Geography, *Building Strong Communities: Recognizing and Capitalizing on the Assets that Contribute to Return Migration*.
2008. Eric Hull, M.S. Candidate, Geography with CEP option, Non-thesis track (Advisor).
- 2006-07. Hunter Lyng, M.A. Candidate, Geography with CEP option.

UM Undergraduate Theses/Research

2011. Anthony Thompson, *Columbia River Renegotiation Process: Collaborative in Word or Deed?* Montana Water Center Fellowship Award (\$500.00). * Shively mentored student in the research.
2010. Michael Ewald, *Efficacy of Riparian Area Regulations in Western Montana*, Davidson Honors College Project and National Undergraduate Research Conference Presentation, April, 2010). * Shively mentored student in the research.
2009. Andrew Stickney, Geography, *Physical Activity and Park Accessibility in Missoula, Montana*, Senior Thesis, B.A. Geography, The University of Montana (Completed May, 2009 – committee member).
2008. Ross Carlson, *Diffusion of the McKenzie River Driftboat*, Davidson Honors College Project and Undergraduate Research Conference Presentation). * Shively mentored student in the research.
2006. Thomas Wolff, Geography, *Lake Effect Climate of Flathead Lake*, Senior Thesis, B.A. Geography, The University of Montana (Completed August, 2006 – committee member).

CMU Graduate Student Committee Appointments

- 2003-04. Bradley Potter, M.S. Candidate, Department of Biology, Central Michigan University. Working title of thesis: *Developing Predictive Models for Wildlife Crossing Sites Along Highways in Michigan.*
- 2002-04. Tim Preuss, M.S. Candidate, Department of Biology, Central Michigan University. Working title of thesis: *Predicting Spatial Distribution and Relative Abundance of Bobcats in Michigan.*
2004. Julie Spencer, M.S. Candidate, Geographic Information Science, Department of Geography, Central Michigan University. *Focusing Land Preservation Efforts in the Chippewa Watershed Using GIS.* M.A. Thesis, Geography, Central Michigan University, 2004.
2003. Nick Wilinski, M.S. Candidate, Public Administration, Department of Political Science, Central Michigan University. Title of Plan B: *Chicago Public Housing: History, Policies, and Implications.* M.A. Thesis, Sociology, Central Michigan University, 2003.

Centralis Scholar Senior Project Faculty Advising, Central Michigan University

- 2002 - 2003. Joylynn Henning - research project related to community volunteer service experience: *"The Chinese Educational System as Compared to America's"* (China), sponsored by English Learning Institute (China/Los Angeles).

CMU Student Research & Creative Endeavors Exhibitions – Students Sponsored

2003. Henning, Joylynn. *An Analysis of the Chinese & American Education Systems.* Tenth Annual Student Research and Creative Endeavors Exhibition, Wednesday, April 23, 2003.
2002. Bennett, M., Lutz, P., O'Boyle, I., Wenner, Morse, J., Shively, D., Pape, B., and B. Sive. *Air Quality Survey for the Mt. Pleasant Region.* Display #182. Ninth Annual Student Research and Creative Endeavors Exhibition, Wednesday, April 24, 2002.
2002. Lutz, P., O'Boyle, I., Wenner, D., Bennett, M., Morse, J., Shively, D., Pape, B., and B. Sive. *Halocarbon Tracer Measurements in the Detroit Metropolitan Area.* Display #186. Ninth Annual Student Research and Creative Endeavors Exhibition, Wednesday, April 24, 2002.
2002. Morse, Juli, Donald Wenner, Isreal O'Boyle, Pam Lutz, Martin Bennett, Dr. Bruce Pape, Dr. David Shively, and Dr. Barkley Sive. *Trace Gas Distribution in the Detroit Metropolitan Area, a Diurnal Study.* Ninth Annual Student Research and Creative Endeavors Exhibition, Wednesday, April 24, 2002.
2002. Anthony Mulkey, "Web-based Public Lands Recreation GIS." Ninth Annual Student Research and Creative Endeavors Exhibition, Wednesday, April 24, 2002.

Posters at the Capital (Michigan) Student Exhibitors

2002. Bennett, M., Lutz, P., O'Boyle, I., Wenner, Morse, J., Shively, D., Pape, B., and B. Sive. *Air Quality Survey for the Mt. Pleasant Region*. Posters at the Capital, April 16, 2002.
2002. Lutz, P., O'Boyle, I., Wenner, D., Bennett, M., Morse, J., Shively, D., Pape, B., and B. Sive. *Halocarbon Tracer Measurements in the Detroit Metropolitan Area*. Posters at the Capital, April 16, 2002.

Honors, Awards, and Distinctions:

2016. William Reynolds Award for Excellence in Teaching across the Curriculum, College of Humanities and Sciences, University of Montana.
2015. MEA-MFT Faculty member of the Year.
- 1999-2000. *Arthur Parenzin Fellowship for Excellence in Research*, Department of Geosciences, Oregon State University.
1987. Graduated with High Honors, Eastern Oregon University (formerly Eastern Oregon State College).