

MELINDA D. DANIELS

Associate Professor and Graduate Program Director
Department of Geography, Kansas State University
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<https://sites.google.com/site/danielsriverlabgroup/>

EDUCATION:

2003: Ph.D. in Physical Geography, University of Illinois, Urbana-Champaign, Illinois.

1997: Master of Research in Environmental Science, University College London, London, United Kingdom.

1996: B.S. (Honors) in Natural Resources and Environmental Science, Cornell University, Ithaca, New York.

PROFESSIONAL EXPERIENCE:

2010-: Associate Professor, Kansas State University, Department of Geography, Physical and Environmental Geography

2008-2010: Assistant Professor, Kansas State University, Department of Geography, Physical and Environmental Geography (Accepted position in 2007, deferred start date to 2008 to have my first child in 9/2007 in Connecticut. First tenure application 2009, approved effective 2010)

2002-2008: Assistant Professor, University of Connecticut, Department of Geography, Physical and Environmental Geography (No tenure application)

2001-2002: Instructor, University of Illinois, Introduction to Physical Geography

1998-2001: Research Assistant and Fellow, University of Illinois, Stream Confluence Dynamics, River Restoration Science

PUBLICATIONS: *denotes my students

1. Costigan *, K.H. and **Daniels, M.D.**, Damming the prairie: human alteration of great plains river regimes, accepted for *Journal of Hydrology*
2. Burchsted *, D., **Daniels, M.D.**, Beaver dams in northeastern Connecticut, U.S.A.: Classification of small-scale discontinuities that generate large-scale complexity, accepted for *Geomorphology*
3. Plater, A.J., **Daniels, M.D.** and Oguchi, T. 2012 Present Research Frontiers in Geomorphology, Chapter in *Treatise in Geomorphology*, In Press, Elsevier.
4. Costigan *, K.H. and **Daniels, M.D.**, 2012. Spatial pattern, density, and characteristics of large wood in Connecticut streams: Implications for stream restoration priorities in southern New England. *River Research and Applications*, In Press, available online, DOI: 10.1002/rra.158.
5. **Daniels, M.D.** and McCusker *, M.H. 2011. Reply to Bunte et al. (2011) "Discussion of Daniels and McCusker (2010): Operator bias characterizing stream substrates using Wolman pebble counts with a standard measurement template." *Geomorphology* 115, 194–198. *Geomorphology*, 134, 501-502.3

6. Burchsted*, D., **Daniels, M.D.**, Thorson, R.M., and Vokoun, J.C. 2010. The river discontinuum: beavers (*castor canadensis*) and baseline conditions for restoration of forested headwaters. *Bioscience*, 60(11): 908-921.
7. **Daniels, M.D.** and McCusker*, M.H. 2010. Operator bias characterizing stream substrates using Wolman pebble counts with a standard measurement template. *Geomorphology*, 115: 194–198.
8. **M. D. Daniels**, D. Burchsted, J. MacBroom, L. Wildman, S. Harold, M. Carabetta, P. Woodworth, and G. Boardman **2010**. Redefining the Dam Removal Paradigm in Formerly Glaciated Forested Headwater Systems, *Proceedings of the EWRI/ASCE Congress, 2010*
9. D. Burchsted*, **M. D. Daniels**, and R. M. Thorson. 2010. Restoring the River Discontinuum: Looking at the Example of Beaver Dams, *Proceedings of the EWRI/ASCE Congress, 2010*
10. McCusker*, M.H., and **Daniels, M.D.** 2009. The potential influence of small dams on basin sediment dynamics and coastal erosion in Connecticut. *Middle States Geographer*, 41:82-90.
11. **Daniels, M.D.**, Boardman*, G.C., and Woodworth*, P.M. 2008. Assessing dam removal impacts on downstream geomorphic stability using hydrodynamic modeling. *Papers of the Applied Geography Conference*, 31: 133-141.
12. Chin, A., **Daniels, M.D.**, Urban, M., Piegay, H., Gregory, K.J., Gregory, S.V., Wohl, E., Laurencio, L., Bigler, W., Boyer, K., Grable, J., LaFrenz, M. 2008. Perceptions of Wood in Rivers and Challenges for Stream Restoration in the United States. *Environmental Management*, 41(6): 893-903.
13. Rhoads, B.L., Garcia, M.H., Rodriguez, J., Bombardelli, F., Abad, J., and **Daniels, M.** 2008. Methods for evaluating the geomorphological performance of naturalized rivers: examples from the Chicago metropolitan area. *Uncertainty in River Restoration*, Sears, D. and Darby, S. (editors). Wiley, Chichester, pp. 209-228.
14. **Daniels, M.D.** and Rhoads, B.L. 2007. Influence of experimental removal of large woody debris on spatial patterns of three-dimensional flow in a low-energy meander bend: A LWD removal experiment. *Earth Surface Processes and Landforms*, 32: 460-474.
15. **Daniels, M.D.** 2006. Grain size sorting in meander bends containing large woody debris. *Physical Geography*, 24(7): 348-362.
16. **Daniels, M.D.** 2006. Distribution and dynamics of large woody debris and organic matter in a low-energy meandering stream. *Geomorphology*, 77(3-4): 286-298.
17. Urban, M.A. and **Daniels, M.D.**, 2006. Exploring the links between geomorphology and ecology. *Geomorphology*, 77(3-4): 203-206.
18. **Daniels, M.D.** and Rhoads, B.L. 2004. Effect of LWD Configuration on Spatial Patterns of Three-Dimensional Flow in Two Low-Energy Meander Bends at Varying Stages. *Water Resources Research*, 40 (11) W11302 10.1029/2004WR003181 25 November 2004
19. **Daniels, M.D.** and Rhoads, B.L. 2004. Spatial patterns of turbulence kinetic energy and shear stress in a meander bend with large woody debris. Chapter in the American Geophysical Union Monograph volume entitled "Riparian Vegetation and Fluvial Geomorphology: Hydraulic, Hydrologic and Geotechnical Interactions", S. Bennett and A. Simon (eds.).
20. **Daniels, M.D.** and Rhoads, B.L. 2003. Influence of a large woody debris obstruction on three-dimensional flow structure in a meander bend. *Geomorphology*, 51, 159-173.

21. Wade, R.J., Rhoads, B.L., Rodriguez, J., **Daniels, M.D.**, Wilson, D., Herricks, E.E., Bombardelli, F., Garcia, M., and Schwartz, J. 2002. Integrating Science and Technology to Support Stream Naturalization near Chicago, Illinois. *Journal of the American Water Resources Association*, 38, 931-944.

Manuscripts in review:

1. **Daniels, M.D.**, Costigan*, K.H. and Gritzmacher*, G.G. Estimates of bed shear stress in a natural meander bend, under review at *Journal of Hydraulic Research*
2. Fischer, J., Paukert, C. and **Daniels, M.D.** Fish community response to habitat alteration: impacts of sand dredging in the Kansas River, under review at *Transactions of the American Fisheries Society*

GRANTS AWARDED (\$957,480)

1. **Melinda Daniels (PI)**, Impacts of In-Channel Sand Mining on the Geomorphology of the Kansas River, pending federal approval for 2012, Kansas Water Resources Institute (USGS), \$53,390.
2. **Melinda Daniels (PI)** and Katie H. Costigan*, Doctoral Dissertation Research: Thermal, Hydraulic and Geomorphological Dynamics at Stream Confluences, Submitted to Geography and Spatial Sciences, 2012, National Science Foundation \$11,695
3. **Melinda Daniels (PI)**, Watershed Assessment of the Wakarusa River, KS, Blue Earth LLC/Kansas Department of Health and the Environment, 9/19/2011-12/15/2012, \$14,000.
4. **Melinda Daniels (PI)**, Impacts of Large-Scale Forest Loss on Stream Channel Form, Process and Sedimentation, US Forest Service (USDA), 8/19/11-8/20/15, \$49,667
5. Keith B. Gido, Joshua S. Perkin, **Melinda Daniels (co-PI)** and Katie H. Costigan*, Reproductive Life History Of Great Plains Pelagic-Spawning Fishes In The Ninnescah River, Kansas, FY 2011 State Wildlife Subgrant Program, Kansas Department of Wildlife and Parks, 5/1/2011 to 4/30/2013, \$192,675
6. **Melinda Daniels (PI)** Assessing the Impact of Channel and Riparian Zone Modifications on Aquatic Biodiversity in the Kansas River Basin, Kingsbury Family Foundation, 12/25/2011-12/25/2012, \$24,951
7. **Melinda Daniels (PI)** American Rivers Patapsco River Restoration Project, McCormick Taylor, INC, 12/18/2010-12/18/2012, \$11,299
8. **Melinda Daniels (PI)** KSU ORSP Faculty Development Award for travel to the 12th International Symposium on the Interactions between Sediments and Water, UK, (June, 2011) \$1,200
9. **Melinda Daniels (PI)** Wildcat Creek Watershed Assessment, US Department of Agriculture/Blue Earth, LLC, 10/10-1/11, \$7,400
10. **Melinda Daniels (PI)** Subcontract to Konza NSF LTER for geomorphology research support, 8/2010-8/2011, \$26,000
11. Craig Paukert and **Melinda Daniels (co-PI)** Sand Dredging Effects on Fishes and Fish Habitat in the Kansas River, FY 2009 State Wildlife Subgrant Program, Kansas Department of Wildlife and Parks, 1/2010-1/2012, \$181,983

12. Keith Gido, **Melinda Daniels (co-PI)** and Joe Gerken Seasonal Fish Assemblages and Habitat Effects near Bowersock Dam: Implications for Fish Passage, FY 2009 State Wildlife Subgrant Program, Kansas Department of Wildlife and Parks, 1/2010-1/2012, \$195,249
13. **Melinda Daniels (PI)** Hydraulic, Geomorphologic and Thermal Dynamics at Small Tributary Confluences, University Small Research Grant, Kansas State University, 2009, \$1,500
14. Eric Schultz, Jason Vokoun and **Melinda Daniels (Co-PI)** Integrating Fluvial Geomorphology and Stream Ecology: Processes Shaping the Distribution of Freshwater Mussels in Connecticut, Connecticut Department of Environmental Protection, 2007-2009, \$16,185
15. **Melinda Daniels (PI)** Post-Ice Control Structure Geomorphological Assessment of the Salmon River, NOAA/The Nature Conservancy, 2007 \$3,500
16. **Melinda Daniels (PI)** Fluvial Dynamics of Large River Secondary Channels: Channel Morphology, Hydraulic Habitat, and Potential for Restoration, National Science Foundation Geography and Spatial Sciences, 7/11/2006-3/11/2009, \$56,793
17. **Melinda Daniels (PI)** The Nature Conservancy: Dam Removal Alternatives Assessment for Umpawaug Pond Brook, 6/2006-12/2007, \$19,800
18. **Melinda Daniels (PI)** National Park Service/Farmington River Alliance: Habitat and Flushing Flow Evaluation of the Farmington River Wild and Scenic Reach, CT, 1/2007-8/2007, \$12,000
19. **Melinda Daniels (PI)** UCONN Research Foundation Large Faculty Grant: Thermal Dynamics At Tributary Confluences: Geomorphological And Hydraulic Research To Support Restoration Design And Management, 2006, \$10,573
20. **Melinda Daniels (PI)** Monitoring the Effects of Dam Removal, NOAA/The Nature Conservancy, 1/2006-12/2006, \$9,300
21. Jason Vokoun and **Melinda Daniels (co-PI)** CT Institute for Water Resources: Development and evaluation of a multi-dimensional spatially and temporally dynamic mesohabitat classification model for stream management and water flow allocation planning in southern New England streams, 2005-2007, \$24,996
22. **Melinda Daniels (PI)** Pre-Ice Control Structure Geomorphological Assessment of the Salmon River, The Nature Conservancy, 6/2005-6/2006, \$7,500
23. **Melinda Daniels (PI)** A preliminary study of the sediment dynamics of the Pomperaug River, Connecticut, Pomperaug River Watershed Coalition, 6/1/2004-9/1/2004 \$2,000
24. **Melinda Daniels (PI)** Fluvial Dynamics of Large River Secondary Channels: Process, Form and Potential for Restoration, UCONN Research Foundation Faculty Grant Program, 6/2003-5/2004, \$20,000
25. Bruce Rhoads and **Melinda Daniels (Co-PI)** Doctoral Dissertation Research: The Role of Large Woody Debris in the dynamics of a Low-Energy Meandering Stream in The Midwest, National Science Foundation Geography and Spatial Sciences, August 2000-August 2001, \$9,274

AWARDS AND FELLOWSHIPS

Provosts Award: Development of new undergraduate curriculum: Global Change and Natural Hazards, University of Connecticut, 2006

Environmental Leadership Certificate of Appreciation (Finalist for Faculty Environmental Leadership Award) University of Connecticut Environmental Policy Advisory Council, 2005

University of Illinois Graduate Fellowship August 2001 - May 2002, \$10,000

University of Illinois Joseph Russell Graduate Fellowship August 2000 - May 2001, \$10,000

University of Illinois Charles S. Alexander Graduate Fellowship August 1999 - May 2000, \$10,000

University of Illinois Graduate Program Enhancement Fellowship, August 1997 - May 1998, \$10,000

GRANTS, FELLOWSHIPS AND SCHOLARSHIPS AWARDED TO STUDENTS UNDER MY SUPERVISION (\$520,760)

Melinda Daniels (PI) and **Katie H. Costigan**, Doctoral Dissertation Research: Thermal, Hydraulic and Geomorphological Dynamics at Stream Confluences, Submitted to Geography and Spatial Sciences, 2012, National Science Foundation \$11,695

Katie H. Costigan, 2011 Yellow Springs Instruments (YSI) Graduate student grant and equipment loan (M9, CastAway CTD, IQ), \$10,000 grant; \$1,000 travel grant; estimated equipment value of \$80,000

Katie H. Costigan, Reds Wolman Graduate Student Research Award, Association of American Geographers Geomorphology Specialty Group, "Critical Corridors in the Fluvial Ecosystem Landscape; Hydraulic, Geomorphologic and Thermal Habitat Dynamics at Confluences", 2011, \$600

Heidi Mehl and Melinda Daniels (Faculty Sponsor) EPA-F2011-STAR-B1. Tribes and American Indian/Alaska Native/Pacific Islander Communities (B1). A cultural ecology of riparian systems on the Prairie Band Potawatomi Nation: understanding stream incision, riparian function, and Indigenous Knowledge to increase best management plan adoption, 9/2011-9/2014, \$97,920

Keith B. Gido, Joshua S. Perkin, Melinda Daniels, and **Katie H. Costigan* (co-PI)**, Reproductive Life History Of Great Plains Pelagic-Spawning Fishes In The Ninescah River, Kansas, FY 2011 State Wildlife Subgrant Program, Kansas Department of Wildlife and Parks, 5/1/2011 to 4/30/2013, \$192,675

Denise Burchsted, Beaver Meadow Hydrology, Sigma Xi Grant in Aid of Research, 2010, \$1000

Denise Burchsted, Pre-Colonial River Conditions in Connecticut: Baseline Hydrology and Morphology for River Restoration, Geological Society of America Graduate Student Research Grant, \$2,600

Denise Burchsted, Turner Designs Instrument Donation Program. June 2010. Aquafluor Handheld Fluorometer. Instrument and materials resale value \$2,500.

Denise Burchsted, UConn Center for Environmental Science and Engineering, Multidisciplinary Environmental Research Award, 2007 and 2010 (two awards). \$11,400

Denise Burchsted and **Melinda Daniels (Faculty Sponsor)** EPA-F2007-STAR-E1. Aquatic Systems Ecology - freshwater systems only) Pre-Colonial River Conditions in Connecticut: Baseline Hydrology and Morphology for River Restoration, 9/2007-9/2011, \$110,000

PROFESSIONAL PRESENTATIONS

*(last 2 years) *denotes student*

1. **Daniels, M.D.** and Costigan*, K.H. Human Alteration of Great Plains River Regimes and Implications for Aquatic Species Management, Annual Meeting of the Association of American Geographers, New York, NY, Feb 24-28, 2012
2. **Daniels, M.D.**, The local hydraulic and geomorphic effects of natural large wood structures, Technical Workshop on Large Wood Applications and Research Needs in River Restoration, sponsored by the US Bureau of Reclamation and the US Army Corps of Engineers, Seattle, WA, Feb 14-15, 2012 (INVITED)
3. **Daniels, M.D.** and Costigan*, K.H. Human Alteration of Great Plains River Regimes and Implications for Aquatic Species Management, Kansas Natural Resources Conference, Wichita, KS, Jan 26-27, 2012
4. Fischer*, J., Paukert, C. and **Daniels, M.D.** Human Alteration of Great Plains River Regimes and Implications for Aquatic Species Management, Kansas Natural Resources Conference, Wichita, KS, Jan 26-27, 2012
5. Mehl*, H.E., Pockrandt*, B., **Daniels, M.D.**, Annett, C.A., Calwell, L. and Daniels, R. Developing a public database of geospatial information for the Kansas River Watershed, Kansas Natural Resources Conference, Wichita, KS, Jan 26-27, 2012
6. **Daniels, M.D.** and Grudzinski*, B. *Hydrology and Geomorphology of Tallgrass Prairie Intermittent Headwater Streams*, American Geophysical Union Fall Meeting, San Francisco, CA, December 4-9, 2011
7. Costigan*, K.H. and **Daniels, M.D.** *Hydrologic Alteration of Great Plains Rivers*, American Geophysical Union Fall Meeting, San Francisco, CA, December 4-9, 2011
8. Grudzinski*, B. and **Daniels, M.D.** *Impact of Cattle and Bison Grazing on Stream Morphology in a Tallgrass Prairie*, GPRM AAG Regional Division Meeting, Denver, CO, October 6-8, 2011
9. Ruffing*, C. and **Daniels, M.D.** *Using Lidar to Assess Local Water Resource Concerns at a Watershed Scale*, GPRM AAG Regional Division Meeting, Denver, CO, October 6-8, 2011
10. Mehl*, H. and **Daniels, M.D.** *Water Quality and Channel Stability on the Prairie Band Potawatomi Reservation*, GPRM AAG Regional Division Meeting, Denver, CO, October 6-8, 2011
11. Costigan*, K.H. and **Daniels, M.D.** *Damming the Prairie: Human Alteration of Great Plains River Regimes*, GPRM AAG Regional Division Meeting, Denver, CO, October 6-8, 2011
12. Terry*, E. Bartlett*, S., Ruffing*, C. **Daniels, M.D.**, and Marston*, B. *Effects of Water Diversions on Drainage Basins in the Medicine Bow National Forest*. GPRM AAG Regional Division Meeting, Denver, CO, October 6-8, 2011
13. Mehl*, H.E., Pockrandt*, B., Calwell, L., Annett, C. and **Daniels, M.D.** *An Inventory of the Kansas River*. Water and the Future of Kansas Conference, Topeka, KS, September 30, 2011
14. Dodds, W.K., Gido, K., Whiles, M.R., and **Daniels, M.D.** *Grassland Streams*. Grasslands in a Global Context, Manhattan, KS, September 12-14, 2011
15. Grudzinski*, B. and **Daniels, M.D.** *Influence of Grazing Treatments on Stream Substrate and Channel Geometry in the Flint Hills, Kansas*. Grasslands in a Global Context, Manhattan, KS, September 12-14, 2011

16. Fischer*, J., Gerken*, J., Paukert, C. and **Daniels, M.D.** *Habitat and Fish Community Response to Sand Dredging In a Large Great Plains River*. The American Fisheries Society 141st Annual Meeting, Seattle, WA Sept. 4-8, 2011
17. **Daniels, M.D.** and Grudzinski*, B. *Impacts of Grazing and Riparian Management on Geomorphology of Prairie Streams*. The 21st Annual Konza Prairie LTER Workshop, Manhattan, KS, April 16th, 2011.
18. **Daniels, M.D.** *The Great Failures Of River Conservation And Restoration – Can Redemption Be Found In An Emerging Fluvial Landscape Ecology?* Invited Seminar, University of Missouri Department of Geography, Columbia, MO, March 11, 2011
19. **Daniels, M.D.**, Fischer*, J., Gerken*, J., Costigan*, K.H. and Paukert, C. *Using Hydroacoustic Technology to Assess the Impacts of In-Channel Dredging on Hydraulic Habitat Conditions in the Kansas river*. 2011 USGS National Surface Water Conference, Tampa, FL, March 28-April 1, 2011
20. Grudzinski* B., and **Daniels, M.D.** *Influence of Grazing Treatments on Stream Geomorphology in the Flint Hills*, Kansas Natural Resources Conference, January 20-21, 2011, Wichita, KS.
21. Fischer*, J., Gerken*, J., Paukert, C., and **Daniels, M.D.** *Fish Community Response to Habitat Alteration: Impacts of Sand Dredging in the Kansas River*, 71st Midwest Fisheries and Wildlife Conference, Minneapolis, MN, December 12-15, 2010
22. Fischer*, J., Gerken*, J., Paukert, C., and **Daniels, M.D.** *Influence of Sand Dredging on Fish Communities in the Kansas River*, Kansas Natural Resources Conference, Wichita, KS, January 20-21, 2011
23. Russell*, D.M., Dodds, W.K., Grudzinski*, B. and **Daniels, M.D.** *Effects of Bison and Prescribed Fire on Prairie Stream Sediments*, Kansas Natural Resources Conference, January 20-21, 2011, Wichita, KS.
24. Fischer*, J., Gerken*, J., Paukert, C. and **Daniels, M.D.** *Fish community response to habitat alteration: Impacts of sand dredging in the Kansas River*, Midwest Fish and Wildlife Conference, Minneapolis, MN, December 2010
25. **Daniels, M.D.** Hook*, L.M., Sheeley, J. Brown, T. *Spatial and temporal lateral discontinuity on the pre-engineered Missouri River*, GSA Annual Meeting, , Denver, CO, November 2010
26. Burchsted*, D. **Daniels, M. D.** *Beaver dam impacts on sediment and water regime*, GSA Annual Meeting, Denver, CO, November 2010
27. **Daniels, M. D.**, Burchsted*, D. *Incorporating pre-disturbance discontinuity into dam removal and river restoration paradigms*, GPRM Regional AAG, Lawrence, KS, October 2010
28. Costigan*, K.M., **Daniels, M.D.**, Gritzmacher*, G.G. *Evaluating local bed shear stress estimates in meander bends using acoustic Doppler velocimeter data*, GPRM Regional AAG, Lawrence, KS, October 2010
29. **Daniels, M.D.**, Burchsted*, D. , MacBroom, J., Wildman, L., Harold, S., Carabetta, M., Woodworth, P., and Boardman, G. *Redefining the Dam Removal Paradigm in Formerly Glaciated Forested Headwater Systems*, EWRI/ASCE World Environmental and Water Resources Congress, 2010, Providence, Rhode Island, May 16-20, 2010

30. Burchsted*, D., **Daniels, M.D.**, and Thorson R.M. *Restoring the River Discontinuum: Looking at the Example of Beaver Dams*, EWRI/ASCE World Environmental and Water Resources Congress, 2010, Providence, Rhode Island, May 16-20, 2010
31. Banner, E. and **M. D. Daniels** *Documenting the historical spatial extent and character of riparian forests in Kansas using General Land Office Survey Records*, Kansas Natural Resources Conference, Wichita, KS, February 4-5, 2010

BOOK REVIEWS, REPORTS AND OTHER PUBLICATIONS:

1. Sand Dredging Effects on Fishes and Fish Habitat in the Kansas River. In preparation. Report to the Kansas Department of Wildlife, Parks, Recreation and Tourism.
2. Seasonal Fish Assemblages and Habitat Effects near Bowersock Dam: Implications for Fish Passage. 2012. Report to the Kansas Department of Wildlife, Parks, Recreation and Tourism.
3. Assessing the Impact of Channel and Riparian Zone Modifications on Aquatic Biodiversity in the Kansas River Basin. In preparation. Report to the Kingsbury Family Foundation.
4. Book Review: *Urban Watersheds: Geology, Contamination and Sustainable Development*. Martin M. Kaufman, Daniels T. Rogers and Kent. S. Murray. Boca Raton: CRC Press, 2011. 547 pp., *The Professional Geographer*, in press.
5. Watershed Assessment of the Wakarusa River, KS. 2012. Report to the Kansas Department of Health and the Environment.
6. Wildcat Creek (KS) Watershed Assessment. 2011. Report to the USDA Natural Resources Conservation Service and US Army (Fort Riley).
7. Processes Shaping the Distribution of Freshwater Mussels in Connecticut. 2010. Report to the Connecticut Department of Environmental Protection.
8. Habitat and Flushing Flow Evaluation of the Farmington River Wild and Scenic Reach, CT. 2009. Report to The National Park Service.
9. Post-Ice Control Structure Geomorphological Assessment of the Salmon River. 2008. Report to The Nature Conservancy (CT office).
10. Book Review: *Hydrological Applications of GIS*. A.M. Gurnell and D.R. Montgomery (Editors). John Wiley and Sons, 2000. 173 pages. *Geomorphology*, 54, 347-351.

SERVICE

Journal Editing

- Editorial Board, *Geomorphology*
- Special issue co-editor: "Linking Geomorphology and Ecology" *Geomorphology* Volume 77, Issues 3-4, Pages A1-A2, 203-334 (30 July 2006), edited by M.A. Urban, **M.D. Daniels** and M. Doyle
- Special issue co-editor: "Discontinuity in Fluvial Systems" *Geomorphology*, in progress, edited by **M.D. Daniels**, D. Burchsted, and E. Wohl

Peer Reviews and Panel Service for Government Agencies

- The National Science Foundation: Geography and Spatial Science, Hydrologic Science, CAREER, Water Sustainability and Climate

- USGS
- Panelist, NSF, Water Sustainability and Climate, 2012

Peer Reviews: Journal and Monograph Manuscripts

- *Water Resources Research*,
- *Ecosystems*,
- *Environmental Management*,
- *Middle States Geographer*,
- *Geomorphology*,
- *The Professional Geographer*,
- *GeoForum*,
- *Earth Surface Processes and Landforms*,
- *The Northeastern Geographer*,
- *River Research and Applications*,
- *JGR Earth Surface*,
- *Journal of the North American Benthological Society*
- American Geophysical Union Monograph: “*Riparian Vegetation and Fluvial Geomorphology: Hydraulic, Hydrologic and Geotechnical Interactions*”
- *Journal of Women and Minorities in Science and Engineering*

Leadership in Scholarly Organizations

- Secretary, AAG Geomorphology Specialty Group, 2012-2013 (elected position)
- Chair, AAG Geomorphology Specialty Group Awards Committee, 2011-2012
- Interim Chair, AAG Geomorphology Specialty Group Awards Committee, 2010-2011
- Session co-organizer, “Migration and Economic Restructuring in Rural America: Papers in Memory of Alex Vias”, Association of American Geographers Annual Meeting, February 2012, New York, NY.
- Session co-organizer, “Linking Geomorphology and Ecology”, Association of American Geographers Annual Meeting, April 2005, Denver, CO.
- Session co-organizer, “Linking Geomorphology and Ecology I”, Association of American Geographers Annual Meeting, March 2004, Philadelphia, PA.
- Session co-organizer, “Linking Geomorphology and Ecology II”, Association of American Geographers Annual Meeting, March 2004, Philadelphia, PA.
- Session co-organizer, “New Perspectives on River Processes: Fluid Dynamics, Wood Dynamics, and Morphologic Change”, American Geophysical Union meeting, December 2001, San Francisco, CA.

Graduate Students Supervised

1. Katie Costigan (KSU, PhD, Geography, active)
2. Bartosz Grudzinski (KSU, PhD, Geography, active)
3. Claire Ruffing (KSU, PhD, Geography, active)
4. Heidi Mehl (KSU, PhD, Geography, active)
5. Bryce Marston (KSU, PhD, Geography, active)
6. Brianna Roberts (KSU, MA, Geography, active)
7. Denise Burchsted (UConn, PhD, Geological Science, active)
8. Lisa Hook (KSU, MA, Geography, 2010)
9. Piyumi Obesekara (UConn, MS, Geosciences, 2009)
10. Natalie Vibert (UConn, MA, Geography, 2008)
11. Paul M. Woodworth (UConn, MA, Geography, 2008)
12. Graham Boardman (UConn, MA, Geography, 2008)
13. Megan MCusker (UConn, MS, Geosciences, 2008)
14. Jason Miller (UConn, MA, Geography, 2007)
15. Heather Pierce (UConn, MA, Geography, 2006)
16. Elizabeth Spender (UConn, MA, Geography, 2006)

17. Grant Gritzmacher (UCONN, MA, Geography, 2006)
18. Megan McCusker (UCONN, MA, Geography, 2005)

Departmental, College and University Service

- Graduate Program Director, 2010-present, Kansas State University Department of Geography
- Faculty Steering Committee, Urban Water Institute, KSU-Olathe campus, 2011-present
- University Graduate Council Member, 2010-present, Kansas State University
- Sub-committee for Academic Affairs Member, University Graduate Council, 2010-present, Kansas State University,
- Geography Interim Head of Department Search Committee Member, Kansas State University, 2010-2011
- Graduate Committee Member, 2009-2010, Kansas State University Department of Geography
- Gamma Theta Upsilon Faculty Advisor, 2008-2009, Kansas State University
- Graduate Program Committee, 2005-2008, University of Connecticut Department of Geography
- Center for Integrative Geosciences Advisory Committee, 2005-2008, University of Connecticut College of Liberal Arts and Sciences
- Undergraduate Program Committee Member, 2005-2008, University of Connecticut Department of Geography
- Visiting Assistant Professor in Residence Search Committee Member, 2005, University of Connecticut Department of Geography
- Department Head Search Committee Member, 2004-2006, University of Connecticut Department of Geography
- Visiting Assistant Professor in Residence Search Committee Member, 2004-2005, University of Connecticut Department of Geography
- Geosciences Advisory Review Board, 2004-2005, University of Connecticut College of Liberal Arts and Sciences,
- UCONN Environmental Policy Advisory Council, 2004-2007
- UCONN Environmental Policy Advisory Council Subcommittee on Land Use and Sustainable Development, Office of the Chancellor, University of Connecticut, 2003-2007
- UCONN Undergraduate Coordinator, Department of Geography, University of Connecticut, 2003-2004
- UCONN Environmental Science Major Program Advisory Committee, University of Connecticut, 2003 - 2007
- UCONN College of Liberal Arts and Sciences Undergraduate Education Council, University of Connecticut, 2002 – 2004
- UCONN Teale Nature and the Environment Lecture Series Organizing Committee, University of Connecticut, 2002 - 2007
- Faculty Search Committee, Department of Geography, University of Illinois, 2000-2001

Outreach/Community Service

I have actively collaborated/consulted with several environmental non-profit and government agencies on a pro-bono basis, including the Northeast Salmon Commission, the Gulf of Maine Council on Stream Barrier Removal Monitoring, the Southbury Land Trust, the Pomperaug River Watershed Coalition, the Houston Valley Association, The Nature Conservancy, The Trustees of Reservations, The KS office of the Natural Resource Conservation Service, The Connecticut Department of Environmental Protection, the Kansas Water Office, the USACE Kansas City office, the Kansas Department of Wildlife, Parks and Recreation, Friends of the KAW, and the Kansas River Keeper.

TEACHING EXPERIENCE

KANSAS STATE UNIVERSITY: 2008-
Environmental Geography
World Regional Geography
Fluvial Geomorphology
Methods Theories and Models in Geography
Geographic Information Systems I
Graduate Seminar in River Regimes

UNIVERSITY OF CONNECTICUT: 2002-2008
Introduction to Physical Geography
Fluvial Geomorphology
Advanced Seminar in Fluvial Geomorphology
Advanced Seminar in Coastal Geomorphology
Environmental Evaluation and Assessment
Environmental Planning and Management
Environmental Restoration
Advanced Seminar in Environmental Restoration

UNIVERSITY OF ILLINOIS: 2002
Introduction to Physical Geography

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Association of American Geographers
American Geophysical Union
Geological Society of America

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