

CURRICULUM VITA
Dru Germanoski

CONTACT INFORMATION

Geology Department
Lafayette College
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EDUCATION

- 1989 Ph.D. Earth Resources - Geology, Colorado State University
Dissertation: "The effects of sediment load and gradient on braided river morphology"
Ph.D. Advisor: Dr. Stanley A. Schumm
- 1984 M.S. Geology, Southern Illinois University
Thesis: "Tributary entrenchment and knickpoint development in response to local base level lowering below a dam, Osage River, Missouri"
Thesis Advisor: Dr. Dale F. Ritter
- 1982 B.S. Earth Science with Distinction, Pennsylvania State University
Thesis: The Origin and Evolution of the Great Lakes
Thesis Advisor: Dr. Richard R. Parizek
Awards: Pennsylvania Senatorial Scholarship, 1977 - 1979
American Legion Award Scholarship, 1977 - 1982
Geology Department Summer Field Camp Scholarship, 1981

Certified and Registered Professional Geologist Commonwealth of Pennsylvania
PG-001159-G

PROFESSIONAL EXPERIENCE

- Dr. Ervin R. VanArtsdalen Professor, Geology Department, Lafayette College, 2004 - present
Co-Director Environmental Sciences and Studies,
- Senior Geologist, MEA INC., Environmental Services, 2003 – present
1365 Ackermanville Road, Bangor, PA 18013
- Member, Board of Directors, MEA INC., Environmental Services, 2008 – present
1365 Ackermanville Road, Bangor, PA 18013
- Professor and Head, Geology Department, Lafayette College, 2000 - 2015
Chair Environmental Sciences Minor

Associate Professor, Geology Department, Lafayette College, 1994 - 2000
Acting Head Spring 1998; Academic Year 1994-1995

Assistant Professor of Geology, Geology Department, Lafayette College, 1990 - 1994

Visiting Scientist, Quaternary Sciences Center - Desert Research Institute, 1992

Instructor of Geology, Geology Department, Lafayette College, 1987 – 1990

College Courses Taught

Earth Surface Processes (Geomorphology)	Hydrogeology
Fluvial Geomorphology (River Form and Function)	Environmental Geology
Environmental Geomorphology	Physical Geology
Advanced Environmental Geology	Glacial Geology
Geological Evolution of the Hawaiian Islands	
Environmental Science and Geology of New Zealand	
Coral Reefs and Caves: The Geology of the Bahamas	
Introduction to the Environment: A Systems Approach	

Awards

Mary Louise Van Artsdalen Prize for Outstanding Scholarly Achievement, Lafayette College, 2006

Marquis Distinguished Teaching Award, Lafayette College, 1998

Jones Lecture Award for Distinguished Teaching and Research , Lafayette College, 1995

Student Government Superior Teaching Award, Lafayette College, 1995

Student Government Superior Teaching Award, Lafayette College, 1991

Braddock Catholic Schools Hall of Fame, 1993

RESEARCH

Research Interests and Specialties

Fluvial Geomorphology: River dynamics, morphology, and sedimentology; channel response to disturbance, arid region channel dynamics and Quaternary history

Hydrogeology – groundwater surface water interaction

Transport and Storage of Contaminated Sediments

Consulting Experience

Numerous cases in Pennsylvania including:

Groundwater contamination - expert testimony;

Fracture orientation impacts on contaminant migration (numerous sites);

Soil and water contamination resulting from leaky fuel tanks (numerous sites);

Pump test and slug analyses (numerous sites);

Groundwater, lake and quarry interaction;

Potential impacts of surface mines on watershed quality;

Septic system siting and potential groundwater contamination (numerous sites);

Sinkhole development; Sinkhole development - expert testimony;

Well siting;

Site evaluation for sinkhole development and groundwater contamination in carbonate terrain
Carbonate resource evaluation (in Jamaica for Commonwealth Limestone Inc);
Erosion control on reclaimed mine sites (Montana, Wyoming, South Dakota);
Saline Seep Evaluation (Montana);
Mineral resource exploration (North Dakota), American Colloid.
Hillslope morphology and origin

BIBLIOGRAPHY

Papers Published

Witte, R.W. and **Germanoski, D.**, 2012. Glaciations of Western New Jersey and Eastern Pennsylvania: A View Across the Delaware River. In: Journey Along the Taconic Unconformity, Northeastern Pennsylvania, New Jersey, and Southeastern New York, 77th Annual Field Conference of Pennsylvania Geologists, Guidebook and Proceedings, edited by J.A. Harper, Pennsylvania Geological Survey, p. 92-117.

Germanoski, D., Hardy, S., Wilson, J. 2012. Comparison of Drainage Densities in Carbonate vs Shale/Slate, Eastern Pennsylvania. American Water Resources Association, Spring Specialty Conference, Geographical Information Systems and Water Resources VII Proceedings. New Orleans, Louisiana March 26 – 28, 6p.

Miller, J.R., Lord, M.L., Villarreal, L., **Germanoski, D.**, and Chambers, J.C., 2012. Structural organization of process zones in upland watersheds of central Nevada and its influence on basin connectivity, dynamics, and wet meadow complexes. *Geomorphology*, Vols 139-140, p. 384–402.

Jeanne C. Chambers, Jerry R. Miller, and **Dru Germanoski**, 2011. Introduction and Overview. In: Chambers, Jeanne C. and Miller, Jerry R., eds. 2011. *Geomorphology, Hydrology, and Ecology of Great Basin Meadow Complexes—Implications for Management and Restoration*. Gen. Tech. Rep. RMRS-GTR-258 Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. p. 1-10.

Dru Germanoski, Jerry R. Miller, and Mark L. Lord, 2011. Controls on Meadow Distribution and Characteristics. In: Chambers, Jeanne C. and Miller, Jerry R., eds. 2011. *Geomorphology, Hydrology, and Ecology of Great Basin Meadow Complexes—Implications for Management and Restoration*. Gen. Tech. Rep. RMRS-GTR-258 Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. p. 11-23.

Jerry R. Miller and **Dru Germanoski**, 2011. Geomorphic Processes Affecting Meadow Characteristics. In: Chambers, Jeanne C. and Miller, Jerry R., eds. 2011. *Geomorphology, Hydrology, and Ecology of Great Basin Meadow Complexes—*

- Implications for Management and Restoration. Gen. Tech. Rep. RMRS-GTR-258 Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. p. 24-43.
- Mark L. Lord, David G. Jewett, Jerry R. Miller, **Dru Germanoski**, and Jeanne C. Chambers, 2011. Hydrologic Processes Influencing Meadow Ecosystems. In: Chambers, Jeanne C. and Miller, Jerry R., eds. 2011. Geomorphology, Hydrology, and Ecology of Great Basin Meadow Complexes—Implications for Management and Restoration. Gen. Tech. Rep. RMRS-GTR-258 Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. p. 44-67.
- Jerry R. Miller, Mark L. Lord, and **Dru Germanoski**, 2011. In: Chambers, Jeanne C. and Miller, Jerry R., eds. 2011. Geomorphology, Hydrology, and Ecology of Great Basin Meadow Complexes—Implications for Management and Restoration. Gen. Tech. Rep. RMRS-GTR-258 Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. p. 68-84.
- Wendy Trowbridge, Jeanne C. Chambers, **Dru Germanoski**, Mark L. Lord, Jerry R. Miller, and David G. Jewett, 2011. Characterization of Meadow Ecosystems Based on Watershed and Valley Segment/Reach Characteristics. In: Chambers, Jeanne C. and Miller, Jerry R., eds. 2011. Geomorphology, Hydrology, and Ecology of Great Basin Meadow Complexes—Implications for Management and Restoration. Gen. Tech. Rep. RMRS-GTR-258 Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. p. 95-112.
- Miller, J.R., **Germanoski, D.**, Villarroel, L., and Lechler, P.J., 2009. Spatial and Temporal variations in the transport and storage of trace metal contaminants in the upper Rio Pilcomayo, southern Bolivia. *International Journal of the Environment and Health*, Vol. 3, No. 4 p. 334 –362.
- Lord, M.L., **Germanoski, D.**, Allmendinger, N.E., 2009. Fluvial Geomorphology: Monitoring Stream Systems in Response to a Changing Environment, Geological Monitoring, edited by Rob Young and Lisa Norby. Geological Society of America p. 69 - 103.
- Galster, J.C., Pazzaglia, F.J., **Germanoski, D.**, 2008. Measuring the impact of watershed urbanization on channel widths using historic aerial photographs and modern surveys. *The Journal of the American Water Resources Association*, Vol. 44, Issue. 4, pp. 948-960.
- Miller, J.R., Lechler, P.J., Mackin, G., **Germanoski, D.**, and Villarroel, L., 2007. Evaluation of particle dispersal from mining and milling operations using lead isotopic fingerprinting techniques, Rio Pilcomayo Basin, Bolivia. *Science of the Total Environment*, Vol. 384 p. 355–373.

- Villarroel, L., Miller, J.R., Lechler, P.J., **Germanoski, D.**, and Puch, E. 2007. Contaminación por metales pesados del sistema de drenaje Río Chilco - Río Tupiza, Sur de Bolivia (Heavy metals contamination of the Río Chilco-Río Tupiza drainage system, southern Bolivia). *Ecología en Bolivia*, Vol. 42, p. 48-71.
- Pazzaglia, F.J., Braun, D.B., Pavich, M., Bierman, P., Potter, N., Merritts, D., Walter, R., and **Germanoski, D.**, 2006. Rivers, glaciers, landscape evolution, and active tectonics of the central Appalachians, Pennsylvania and Maryland. In Excursions in Geology and History: Field Trips in the Middle Atlantic States: Geological Society of America Field Guide 8, F.J. Pazzaglia (ed.) p. 169-198.
- Villarroel, L., Miller, J.R., Lechler, P.J., Mackin, G., and **Germanoski, D.**, 2006. Lead, Zinc, and Antimony Contamination of the Río Chilco-Río Tupiza Drainage System, Southern Bolivia. *Environmental Geology*, Vol. 51, Number 2, p. 283-299.
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- Germanoski, D.**, and Miller, J.R., 2004. Sensitivity of upland watersheds in central Nevada to natural and anthropogenic disturbance, Great Basin Riparian Ecosystems: Ecology, Management, and Restoration, p. 88-123, Island Press.
- Miller, J.R., House, K., and **Germanoski, D.**, Tausch R.J., and Chambers, J.C., 2004. Fluvial geomorphic responses in central Nevada to natural and anthropogenic disturbances during the late Holocene, Great Basin Riparian Ecosystems: Ecology, Management, and Restoration, p. 49-87. Island Press.
- Chambers, J.C., Tausch R.J., Korfmacher J.L., **Germanoski, D.**, Miller, J.R., and Jewett, D., 2004. Effects of Geomorphic Processes and Hydrologic Regimes on riparian vegetation, Great Basin Riparian Ecosystems: Ecology, Management, and Restoration, p.196-231. Island Press.
- Chambers, J.C., Miller, J.R., and **Germanoski, D.**, and Weixelman. 2004. Process-based approaches for managing and restoring riparian ecosystems in the Central Great Basin., p. 261-292. Great Basin Riparian Ecosystems: Ecology, Management, and Restoration, Island Press.
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- Germanoski, D.**, 2001. Bar forming processes in gravel-bed braided rivers, with implications for small-scale gravel mining. Applying Geomorphology to Environmental Management, D.J. Anthony, M.D. Harvey, J.B.Laronne, and M.P. Mosley (eds.) Water Resources Publications, p 3-32.
- Germanoski, D.**, Ryder, C., and Miller, J.R., 2001. Spatial variation of incision and deposition within a rapidly incised upland watershed, central Nevada. Proceedings of the 7th Interagency Sedimentation Conference, v. 2 p. XI41-XI 48.
- Miller, J.R., **Germanoski, D.**, Waltman, K., Tausch, R.J., and Chambers, J.C., 2001. Influence of Late Holocene hillslope processes and landforms on modern channel dynamics in upland Watersheds of Central Nevada. Geomorphology v. 38, p. 373-391.
- Brandes, D. and **Germanoski, D.**, 2000. Automated discharge and water quality measurements on a high quality suburban watershed: a cooperative effort among education, government, and environmental advocacy. Proceedings, 2000 Joint Conference on Water Resources Engineering and Water Resources Planning & Management, R.H. Hotchkiss and M. Glade, Eds. ASCE Environmental and Water Resources Institute.
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- Germanoski, D.**, 1999. The Lehigh Valley landform assemblage: differential erosion and relationships between topography and geology. In: Economic and Environmental Geology in the Allentown-Bethlehem Area, 64th Annual Field Conference of Pennsylvania Geologists, Guidebook and Proceedings, edited by W.D. Sevon and G.M. Fleeger, Pennsylvania Geological Survey, p. 9-30.
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- Germanoski, D.** and Ritter, D.F. 1988. Tributary response to local base level lowering below a dam. *Regulated Rivers* v. 2, p. 11-24.

Abstracts

- Germanoski, D.**, Hardy, S., Wilson, J, 2016. An Integrated Geomorphic/Hydrologic Study of the Effects of Lithology and Baselevel on Groundwater-Surface Water Interactions in Slate and Carbonate Watersheds in Eastern Pennsylvania. Geological Society of America, Paper 40-3, Vol. 46, No. 2.
- Germanoski, D.**, Hardy, S., Wilson, J., 2015. The Effects of Lithology and Groundwater Baselevel on Groundwater-Surface Water Interactions in the Great Valley Section of Eastern Pennsylvania. Proceedings of 2015 Pennsylvania Groundwater Symposium, May 6, 2015.
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- Benedetto, Z., **Germanoski, D.**, Wilson, J., Brandes, D., Brummel, R., 2014. Development of GIS-based Surface Water and Groundwater Transport Models for Lower Saucon Township, PA. American Water Resources Association, 2014 Spring Specialty Conference GIS & Water Resources VIII: Data To Decisions.
- Germanoski, D.**, Morris, M., Wilson, J, Helms, C., 2014. An Investigation into the Lithologic Control on Differential Weathering and Topography in Reading Prong Basement Blocks, East-Central Pennsylvania Using High Resolution LiDAR Data. GSA Abstracts with Programs Vol. 46, No. 6.
- Germanoski, D.**, Hardy, S., Germanoski, T., Wilson, J., Kendra, J., 2012. Groundwater-Surface Water Interactions Across A Slate-Carbonate Boundary In The Great Valley Of Eastern Pennsylvania. Geological Society of America *Abstracts with Programs*. Vol. 44, No. 7, p.,297

- Germanoski, D.**, Hardy, S., Wilson, J. 2012. Comparison of Drainage Densities in Carbonate vs Shale/Slate, Eastern Pennsylvania. American Water Resources Association, Spring Specialty Conference, Geographical Information Systems and Water Resources VII Proceedings. New Orleans, Louisiana March 26 – 28.
- Germanoski, D.**, 2012. Marcellus Misinformation: Misperceptions about the Environmental Impacts and Benefits of Natural Gas Extraction in Pennsylvania. Energypath 2012: America's Sustainable Energy Future Proceedings p. 11.
- Conlon, M., **Germanoski, D.**, Mylon, S., Brandes, D., Barlow W., Bernstein, A., Germanoski, T., and Thompson, M., 2011. Heavy metals in legacy sediments above a low head dam in the Bushkill Creek, Easton, Pa: implications for dam removal. Geological Society of America *Abstracts with Programs*, Vol. 43, No. 1, p. 71.
- Medford, A.K., **Germanoski, D.**, Witte, R., 2011. Late Pleistocene and Holocene stream terraces of the Delaware River, near Easton, Pa, mapped with LiDAR data. Geological Society of America *Abstracts with Programs*, Vol. 43, No. 1, p. 113.
- Lord, M., Miller, J., Villarroel, L., **Germanoski, D.**, Mackin, G., Lechler, P.J., and Walsh, D., 2010. Connectivity in hydrogeomorphic systems. Geological Society of America *Abstracts with Programs*, Vol. 42, No. 5, p. 178
- Germanoski, D.**, Miller, J., Lord, M., Jewett, D., Chambers, and Trowbridge, W., 2009. Geomorphic and hydrogeological controls on the distribution of wet meadows in the central great basin: Geological Society of America Abstracts with Programs Vol. 41, No. 7.
- Lord, M., Miller, J., **Germanoski, D.**, Jewett, D., Villarroel, L., Tury, R., Walsh, D, and Chambers, J. 2009. Do Reach-scale Geomorphically Defined Process Zones Predict Sensitivity of Channel Systems and Hydrologic Processes in the Mountains of the Central Great Basin? Geological Society of America Abstracts with Programs Vol. 41, No. 7, p.624.
- Larsen, M. **Germanoski, D.**, and Wilson. J., 2009. Drainage Basin Morphometry as an Indicator of Tectonic Activity in the Southern Toiyabe Range, Great Basin Nevada. Geological Society of America Abstracts with Programs Vol. 41, No. 3. P. 93.
- Germanoski, D.**, Miller, J., Tausch, R., Wojtowicz, Chambers, J., 2008. Geomorphic Response to Late Holocene Climate Change in Mountain Watersheds In Central Nevada. Geological Society of America Abstracts with Programs Vol. 40, No. 1. P. 99. **Invited.**

- Galster, J. C., Pazzaglia, F., and **Germanoski, D.**, 2007. Measuring the erosion of river channel widths impacted by watershed urbanization using historic aerial photographs and modern surveys. Transactions of the American Geophysical Union.
- Baker, G.S. Sturtevant, K.A., Baker, G.S., Lord, M., Miller, J.R., Jewett, D., **Germanoski, D.**, and Chambers, J., 2007. Utilizing Multiple Geophysical Techniques to Analyze Hydrologic Controls On Riparian Meadow Complexes In The Central Great Basin, NV. Geological Society of America Abstracts with Programs Vol. 39, No. 6.
- Trowbridge. W.B., **Germanoski, D.**, and Chambers, J.C., 2007. Establishing priorities for restoration of riparian streams and meadows. Ecological Society of America 92nd Annual Meeting Abstracts.
- Germanoski, D.**, Miller, J., Lord, M., Jewett, D., Chambers, Trowbridge, W., Sturtevant, K., and J. Baker, G., 2007. Geomorphic Controls on Meadow Ecosystems in the central Great Basin. Society for Range Management Annual Meeting Abstracts.
- Chambers, J., Trowbridge, W., Jewett, D., Lord, M., **Germanoski, D.**, Miller, J., Sturtevant, K., and J. Baker, G., 2007. Relationships of Meadow Vegetation to Groundwater Depth: Effects of Precipitation Variability and Stream Incision. Society for Range Management Annual Meeting Abstracts.
- Lord, M., Jewett, D., Miller, J., **Germanoski, D.**, Chambers, Trowbridge, W., Sturtevant, K., and J. Baker, G., 2007. Hydrology of central Great Basin Meadow Ecosystems: Effects of Stream Incision. Society for Range Management Annual Meeting Abstracts.
- Miller, J., **Germanoski, D.**, Lord, M., Jewett, D., Chambers, Trowbridge, W., Sturtevant, K., and J. Baker, G., 2007. Utilization of In-stream Structures for Wet Meadow Stabilization in the Central Great Basin: A Process-Oriented Approach. Society for Range Management Annual Meeting Abstracts.
- Sturtevant, K., J. Baker, G., Lord, M., Miller, J., Jewett, D., **Germanoski, D.**, and Chambers, J. 2007. Geomorphic Controls on Meadow Ecosystems-Insights into Local Processes Using Near-Surface Seismic Techniques And Ground Penetrating Radar. Society for Range Management Annual Meeting Abstracts.
- Trowbridge. W.B., Chambers, J.C., and **Germanoski, D.** 2007. A system for prioritizing meadow restoration. Society for Range Management Annual Meeting Abstracts.

- Galster, J. C., Pazzaglia, F., and **Germanoski, D.**, 2006. Measuring The Impact Of Urbanization On Two Watersheds Using Historic Aerial Photographs: Implications For Restoration Efforts. Geological Society of America Abstracts with Programs Vol. 38.
- Germanoski, D.** and Enea, C. 2006. Lithologic Control on Topography in East-central Pennsylvania Implications for Appalachian Landscape Evolution. . Geological Society of America Abstracts with Programs Vol. 38, No. 2. **Invited.**
- Galster, J.C., Pazzaglia, F.J., **Germanoski, D.**, 2006. Measuring the impact of urbanization on two watersheds using historic aerial photographs: implications for restoration efforts. GSA Abstracts with Programs Vol. 38, No. 7.
- Sturtevant, K.A., Baker, G.S., Lord, M., Miller, J.R., Jewett, D, **Germanoski, D.**, and Chambers, J. 2006. Analyzing geologic controls of riparian meadow complexes using multiple geophysical techniques in the central Great Basin, NV. Geological Society of America Abstracts with Programs Vol. 38, No. 7.
- Jewett, D., Chambers, J.C., Trowbridge. W.B., **Germanoski, D.**, Lord. M., Miller, J. and Baker., 2006. Managing and Restoring Upland Riparian Meadows in the Central Great Basin. Proceedings of the Workshop on Collaborative Watershed Management and Research in the Great Basin.
- Sturtevant, K., Baker, G.S., Lord, M., Miller, J., **Germanoski, D.** and Chambers, J.C., 2006. Utilizing Multiple Geophysical Techniques to Analyze Bedrock Geometry and Sedimentological Controls on Riparian Meadow Complexes in the Central Great Basin, NV. Geological Society of America Abstracts with Programs Vol. 38, No. 3.
- Allmendinger, N., Lord, M., **Germanoski, D.**, 2005. A three-tiered system for monitoring fluvial systems. Geological Society of America Abstracts with Programs Vol. 37, No. 7, p. 488.
- Chambers, J.C., Jewett, D. Lord, M., Miller, J., and **Germanoski, D.**, 2005. Relationships among geomorphology, hydrology and vegetation in riparian meadows: restoration implications. Geological Society of America Abstracts with Programs Vol. 37, No. 7, p. 538.
- Germanoski, D.**, Mott, Andrew, Trowbridge, W., Wilson, J and Chambers, J. , 2005. Satellite image and GIS-based identification and characterization of wet meadows in the central Great Basin. . Geological Society of America Abstracts with Programs Vol. 37, No. 7, p. 509.
- Germanoski, D.**, Miller, J., Lord, M, Jewett, D., Chambers, J. Baker, G., and Bergman, J., 2005. Reach specific channel stabilization based on comprehensive evaluation of valley fill history, alluvial architecture and groundwater hydrology in a

- mountain stream in the Central Great Basin, Nevada. Geological Society of America Abstracts with Programs Vol. 37, No. 7, p. 538.
- Jewett, D.G., Chambers, J.C., Miller, J.R., Lord, M.L., **Germanoski, D.**, and Baker, G.S., 2005. An integrated, science-based approach to managing and restoring upland riparian meadows in the Great Basin of central Nevada. Geological Society of America Abstracts with Programs Vol. 37, No. 7, p. 538.
- Lord, M., Jewett, D., Miller, J., **Germanoski, D.**, Baker, G., and Chambers, J., 2005. Hydrogeomorphic setting, characteristics, and response to stream incision of montane riparian meadows in the central great basin: implications for restoration. GSA Abstracts with Programs Vol. 37, No. 7, p. 538.
- Sturtevant, K., Baker, G.S., Lord, M., Miller, J., Jewett, D., and **Germanoski, D.**, 2005. Integrating geophysics, geology, and hydrology to determine bedrock geometry controls on the origin of isolated meadow complexes within the Central Great Basin, Nevada. Geological Society of America Abstracts with Programs Vol. 37, No. 7, p. 509.
- Trowbridge, W.B., **Germanoski, D.**, Lord, M., Jewett, D., J. Baker., and Chambers, J.C., 2005. An interdisciplinary approach to riparian meadow characterization and prioritization, central Great Basin. Geological Society of America Abstracts with Programs Vol. 37, No. 7, p. 538.
- Germanoski, D.**, Hawk, N., Kortz, B., Latham, D., Mott, A., Ryder, C., Schubert, B., and Wilson, J., 2004. Geomorphic research involving undergraduates: field, flume, laboratory, and GIS. **Geological Society of America** Abstracts with Programs Vol. 36, No. 5., p. 233. **invited**
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- Villarroel, L., Miller, J.R., Lechler, P., and **Germanoski, D.**, 2004. Transport and storage of contaminated mining debris by flood processes, Rio Tupiza basin, southern Bolivia. Geological Society of America Abstracts with Programs Vol. 36, No. 5, p. 560.
- Germanoski, D.**, Miller, J.R., Jewett, D., Lord, M., Chambers, J., and Bergman, J. 2004. The importance of alluvial valley history on modern channel instability and reach-specific restoration. Geological Society of America Abstracts with Programs Vol. 35, No. 6.
- Schubert, B., and **Germanoski, D.**, 2004. Suspended sediment transport and the effects of algae and moss on the entrainment of silt and clay in the Bushkill Creek

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- Germanoski, D.**, and Miller, J.R., 2002. Sensitivity of upland watersheds to natural and anthropogenic disturbance. Ecological Society of America 87th Annual Meeting Abstracts, p.21.
- Miller, J.R., House, K, and **Germanoski, D.**, 2002. Fluvial geomorphic responses in central Nevada to natural and anthropogenic disturbances during the late Holoene. Ecological Society of America 87th Annual Meeting Abstracts, p. 32 August, 2002.
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- Davis, C., J. C. Chambers, J. R. Miller, and **Germanoski, D.**, 2000. Influences of alluvial fans on stream incision and vegetation dynamics in central Nevada watersheds. Geological Society of America Abstracts with Programs, v. 32, no. 7 p. A183.
- Ryder, C., **Germanoski, D.**, Miller, J.R. , 2000. Spatial variation in erosion and deposition in a rapidly incising upland drainage basin, central Nevada. Geological Society of America Abstracts with Programs, v. 32, no. 1 p. A-71.
- Brandes, D. and **Germanoski, D.**, 2000. Automated discharge and water quality measurements on a high quality suburban watershed: a cooperative effort among education, government, and environmental advocacy. ASCE Joint Conference on Water Resources Engineering and Water Resources Planning and Management.
- Germanoski, D.**, 1999. A return to the Davis landform equation: a holistic approach. Geomorphology in the Public Eye, 30th Annual Binghamton Geomorphology Symposium, Program and Abstracts, p. 17-18.
- Germanoski, D.**, Miller, J.R., and Chambers, J.C., 1999. Incision in upland watersheds of central Nevada: controls on channel sensitivity. Geological Society of America Abstracts with Programs v. 31, no. 7 p. A-201.
- Germanoski, D.**, Miller, J.R., and Farleigh, K., Chambers, J.C., and Tausch, R.J, 1998. Influence of Late Holocene hillslope erosion and fan building on modern channel dynamics in upland watersheds, central Nevada. Geological Society of America Abstracts with Programs, v. 30, no. 7 p. A-295.
- Waltman, K., Miller, J.R., **Germanoski, D.**, Chambers, J.C., and Tausch, R.J., 1998. Relations between climate change and geomorphic responses in the Cottonwood Creek Watershed, Toiyabe Mountains, Central Nevada. Geological Society of America Abstracts with Programs, v. 30, no. 7 p. A-140.
- Walsh, D. and **Germanoski, D.**, 1997. Surface water and ground water quality and flow in the Schantz Spring aquifer, Lehigh County, Pennsylvania. Geological Society of America - Northeastern Section, Abstracts with Programs, v. 29, no. 1. p. 87.
- Mangione, C. and **Germanoski, D.**, 1997. Hillslope stability in metamorphosed precambrian marbles, Chestnut Hill, Easton, PA. Geological Society of America - Northeastern Section, Abstracts with Programs, v. 29, no. 1. p. 63.
- Walsh, D. and **Germanoski, D.**, 1996. Ground water quality and flow in the Schantz Spring aquifer, Lehigh County, Pennsylvania. Geological Society of America - Northeastern Section, Abstracts with Programs, v. 28, no. 3 p. 108.
- Germanoski, D.** and Karle, K., 1996. Braided River dynamics and implications for small-scale gravel mining in Denali National Park, Alaska. Program and Abstracts Symposium of the Schumm School, Applying Geomorphology to Environmental

Management, Colorado State University, Fort Collins, Colorado.

- Germanoski, D.** and Gloss J., 1995. Origin and characteristics of alluvial fans and fan-shaped pediments in the central Appalachians. Geological Society of America – Southeastern Section, Abstracts with Programs, v. 27, no. 2 p. 55. **Invited.**
- Gloss J. and **Germanoski, D.**, 1995. The differentiation of alluvial fans and fan-shaped pediments in the central Appalachians. Geological Society of America - Northeastern Section, Abstracts with Programs, v. 27, no. 1, p. 47-48.
- Germanoski, D.** and Malinconico, L.L., Jr., 1993. The geomorphic evolution of the Hawaiian Islands - a geomorphic laboratory experience. Geological Society of America, Abstracts with Programs, v. 25, no. 6, p. A 308.
- Germanoski, D.**, 1993. Braid bar development through the dissection of stalled linguoid dunes in gravel-bed braided rivers. Third International Geomorphology Conference, Programme with Abstracts, p. 145. Hamilton, Ontario Canada.
- Germanoski, D.**, Braunwell, P., Coykendall, J.P., and Kelsey, J. 1993. Effects of agriculture, housing development, and industry on water quality in a small drainage basin, Bushkill Creek, Pennsylvania. Geological Society of America - Northeast Section, Abstracts with Programs, v. 25, no. 2, p. A18.
- Germanoski, D.** and Miller, J.R., 1992. Geomorphic responses to wildfire in the arid, Crow Creek watershed, central Nevada. Geological Society of America, Abstracts with Programs, v. 24, no. 7, p. A 121.
- Germanoski, D.**, 1991. Flume study of the relative impact of falling versus rising baselevel in braided rivers. Geological Society of America, Abstracts with Programs, v. 23, No. 5, p. A 240.
- Germanoski, D.**, 1991. Reassessment of the importance of linguoid bars in gravel-bed braided rivers. Transactions of the American Geophysical Union, v. 72, No. 17, p 138. **Invited.**
- Germanoski, D.**, 1990. Comparison of bar-forming processes and differences in morphology in sand- and gravel-bed braided rivers, Geological Society of America, Abstracts with Programs, v. 22, no. 7, p. A 110.
- Germanoski, D.**, 1990. Variation in soil development resulting from differences in slope aspect and associated differences in microclimate, Soils and Landscape Evolution, Proceedings 21st Annual Binghamton Geomorphology Symposium, p. 30.
- Germanoski, D.**, 1990. Laboratory study of braided channel response to variable rates of baselevel change. Transactions of the American Geophysical Union, v. 71, no. 17, p. 513.

- Germanoski, D.**, 1989. Development of planar horizontal laminae by the migration of low-amplitude linguoid bars under lower-regime flow, Geological Society of America, Abstracts with Programs, v. 21, no. 6, p. A 97.
- Germanoski, D.**, Harvey, M.D. and Schumm, S.A., 1988. Experimental and field studies of terrace development in degrading braided rivers. Geological Society of America, Abstracts with Programs, v. 20, no. 1., p. 21.
- Harvey, M.D., **Germanoski, D.**, and Pitlick, J. 1988. Terrace-forming processes in modern fluvial systems: implications for Quaternary studies. Geological Society of America, Abstracts with Programs, v. 20, no. 7, p. A 374.
- Germanoski, D.**, 1987. Experimental study of braided river morphology. Transactions of the American Geophysical Union, v. 68, no. 44, Nov. 3, 1987, p. 1297.
- Germanoski, D.** and Ritter, D.F. 1987. Tributary entrenchment in response to local base level lowering below a dam, Osage River, Missouri. Erosion and Sedimentation in the Pacific Rim, IAHS Pub. no. 165 p. 391-392, extended abstract, International Symposium on Erosion and Sedimentation in the Pacific Rim.

Invited Lectures

- “Marcellus Misinformation: The Changing Landscape of the Marcellus Shale Natural Gas Play in Pennsylvania” Lehigh Gap Nature Center, March 20, 2014
- “Major Progress in Geosciences over the past 50 years: Technology, Technology, Technology – A Celebration of 50 Years of the Pennsylvania Earth Science Association” Pennsylvania Earth Sciences Association, June 16, 2014.
- “Hydrofracking in Pennsylvania” Community Forum on Hydrofracking Lafayette College Roethke Festival, September 20, 2014.
- “The Science of Pipelines: Environmental Considerations for Communities” Nurture Nature Center Easton, PA. Nov. 20, 2014
- “The PennEast Pipeline: Realistic Geological Considerations for Northampton County and Lower Saucon Township” Dec. 16, 2014
- “Geologic - Structural and Lithologic control on Topography in the Pennsylvania Appalachians, Philadelphia Geological Society, September 16, 2013.
- “River Flooding in Perspective and the 100-year Flood” Illick’s Mill Environmental Education Center, May 29, 2013
- “Lehigh Valley Geology: Relationships Between Rock Type, Topography, and Water Quality” Illick’s Mill Environmental Education Center, May 29, 2013

“Marcellus Misinformation: Misperceptions about the Environmental and Economic Impacts of Natural Gas Extraction in Pennsylvania”, Nurture Nature Center, May 16, 2013

“The Future of Marcellus Gas in Pennsylvania” Television taping session for PBS May 2, 2013.

"Shale Gas - Geology, Compositional Variation and Chemical Signature to Assess Migration and Source" York University Chemistry Department/Corporate Partners Awards Dinner, March 26, 2013.

The Science of Gas Extraction in Pennsylvania. Presentation and Panelist associated with “Groundswell” presentations on a film about Fracking in PA, hosted by the Film and Media Studies Program, Lafayette College. 11/29/12.

Misconceptions and Misinformation: Marcellus Shale in Pennsylvania. Presentation and Workshop co-leader, 5th Lehigh Valley Watershed Conference, Lehigh University. 10/9/12

Marcellus Misinformation: Misperceptions about the Environmental Impacts and Benefits of Natural Gas Extraction in Pennsylvania. Energypath 2012: America’s Sustainable Energy Future. 6/28/12

“Marcellus Misinformation: Misperceptions about the Environmental Impacts and Benefits of Natural Gas Extraction in Pennsylvania.” Brown Bag Presentation, Nurture Nature Center, Easton, PA. 3/28/12.

“Marcellus Misinformation: Misperceptions about the Environmental Impacts and Benefits of Natural Gas Extraction in Pennsylvania.” Presentation, American Society of Chemical Engineers Lehigh Valley Chapter, Easton, PA. 3/29/12.

“Marcellus Misinformation: Misperceptions about the Environmental Impacts and Benefits of Natural Gas Extraction in Pennsylvania” presentation at Lafayette College Geology Colloquium, December 7, 2011.

“The Changing Landscape of the Marcellus Shale in Pennsylvania: Implications for Natural Gas Extraction” presentation at the AFS Annual Meeting, Lancaster, PA, November 9, 2011.

“The Marcellus Shale in Geological and Physiographical Context: Implications for Natural Gas Extraction” presentation and panelist at the Association of Women University Professors Eastern District Mtg., Northampton Community College October 22, 2011.

“The Marcellus Shale in Geological Context: Implications for Natural Gas Extraction” presentation Richards Energy Affinity Program (REAP) Annual Meeting, September 23, 2011.

“The Marcellus Shale in Geological Context: The Tectonic and Depositional History of

- the Middle Appalachians” presentation and panelist at EnergyPath2011 at DeSales University, June 30, 2011.
- “The Geology of the Tocks Island Dam and the Myth of a Multi-purpose Dam as a Flood Prevention Facility. East Stroudsburg University and the Monroe County Historical Association Conference on Local History. April 22, 2011.
- “Understanding the Flood Hazards in the Delaware Valley” Nurture Nature Foundation Seminar, February 18 and 20, 2010.
- “Distribution, Alluvial History, and Hydrodynamics of Wet Meadows in Mountain Streams in the Central Great Basin” Coloquium Series Hydrologic Science Program, the University of Nevada at Reno, April 20, 2007.
- “What’s with all the rain and what’s the real meaning of the 100 year flood? Lehigh Valley Watershed Conference, Lehigh University, Oct. 6, 2006.
- “Understanding Floods – A scientific Perspective” A featured talk at the Delaware anniversary of the Hurricane Diane flood, August 20, 2005.
- “Understanding Geologic Hazards: A Geological Perspective”. Lafayette College, Parents Weekend, September 24, 2005.
- “Understanding the Devastation in New Orleans”, special panel of talks on the Katrina Disaster, Lafayette College, September 7, 2005.
- “Understanding the Devastation in New Orleans – A Geologic Perspective”, Department of Government and Law sponsored teach-in on the Katrina Disaster, Lafayette College, November 18, 2005
- “Bushkill Creek Watershed Mountain to River: (1) the Geology of the watershed and the importance of headwater geology and water quality, and (2) surface water and groundwater interactions and their influence on sinkhole development” Pennsylvania Watershed Conference, September, 2004
- “The effect of geomorphic processes on heavy metal migration in the Rio Pilcomayo, Bolivia” State University of New York at Cortland. November, 2004
- “The effect of geomorphic processes on heavy metal migration in the Rio Pilcomayo, Bolivia” Lehigh University, December, 2003
- “The Sudbury Structure: Meteorite Impact, Nickel Deposits, and the Environmental Impact of Smelting” The Franklin Mineral Institute and Museum, May, 2001.
- “Landscape response to Late Holocene Climate Change in Central Nevada” Dickinson College, March, 2000.

“Landscape response to Late Holocene Climate Change in Central Nevada” Lehigh University, February, 2000.

“Landscape response to Late Holocene Climate Change in Central Nevada” Franklin and Marshal College, October, 1999.

“The Sudbury Structure: Meteorite Impact, Nickel Deposits, and the Environmental Impact of Smelting” The Pennsylvania Earth Science Association, April, 2000

“Groundwater and Regional Geology”, Jacobsburg Environmental Education Center and Delaware River Watershed Education Consortium (DRWEC) October 1996.

“River Form and Function: The Relationship Between What Rivers Do and How They Look” Jones Faculty lecture, Lafayette College February, 1995.

“Bar terminology and braided river morphology” Lehigh University, Spring 1990.

Research Grants

National Science Foundation \$158,605 for Co-PI with Michael McGuire and Kristen Sanford Bernhardt on an MRI grant to the NSF for a ground-based field LiDAR unit. MRI: Acquisition of a Light-Detection and Ranging(LIDAR) System for Civil Infrastructure Research **Michael McGuire is lead-PI**, I helped write the proposal and went to Orlando for training.

Andrew K. Mellon Foundation \$800,000 institution grant 2007-12. PI and Project Director of the Mellon Foundation Grant for Environmental Science and Studies focusing on programming and curriculum development to develop degree programs in Environmental Studies (AB) and Environmental Science (BS) Institution grant of.

U.S. Forest Service total project budget \$54,292 for 2003-08 for research on Geomorphic, Hydrologic and Vegetation Interactions Related to Meadow Complexes in the Central Great Basin – Implications for Restoration.

National Science Foundation \$53,898 support for Germanoski for 2002-2005 for “Collaborative Research: Analysis of the Transport and Storage of Contaminated Sediments in the Rio Pilcomayo Basin, Bolivia: A Geochemical-Geomorphic Approach.” Co-PI with Professor Jerry Miller, Western Carolina University and Professor Paul Lechler, University of Nevada at Reno & Nevada Bureau of Mines and Geology (Total Grant Value .

U.S. Forest Service \$25,821 support for 2002-04 for research on river sensitivity to disturbance and the effects of controlled burns in central Nevada.

Keck Foundation. \$300,000 for a flume for physical river models. Group proposal from Lafayette College Geology.

U.S. Forest Service \$22,000 support for 2000-2001 for research on river sensitivity to disturbance and the effects of controlled burns in central Nevada.

National Science Foundation \$15,403 support for 2001-2003 for "A comprehensive watershed instrumentation program for multidisciplinary undergraduate education at Lafayette College." Co-PI with Professor Brandes, Civil and Environmental Engineering.

U.S. Forest Service \$11,500 support for 1999-2000 for research on small-scale climate change and river response in central Nevada. Subcontract on a grant from U.S. Forest Service to Jerry Miller at Indiana University Purdue University at Indianapolis.

U.S. Forest Service \$11,500 support for 1998-99 for research on small-scale climate change and river response in central Nevada. Subcontract on a grant from U.S. Forest Service to Jerry Miller at Indiana University Purdue University at Indianapolis.

U.S. Forest Service Support for travel and field work July 1997 for research on small-scale climate change and river response in central Nevada. Grant from U.S. Forest Service to Jerry Miller at Indiana University Purdue University at Indianapolis.

National Science Foundation support for undergraduate student research on "Groundwater flow in a carbonate aquifer, Schantz Spring, Lehigh County, Pennsylvania". Student support from a Consortial REU grant to Lawrence L. Malinconico, Jr., June 1994 - April 1995.

American Chemical Society - Petroleum Research Fund \$20,000 support for research on "Reevaluation of Relationships Between Bar-Forming Processes and Sedimentary Structures In Gravel-Bed Braided Rivers". Research in Alaska summer 1992 and summer 1993.

Committee on Advanced Study and Research, Lafayette College Summer Research Fellowship \$4,000 for research on "Reevaluation of Relationships Between Bar-Forming Processes and Sedimentary Structures in Gravel-Bed Braided Rivers". Research in Alaska during June and July 1991.

Committee on Advanced Study and Research, Lafayette College \$1,300 support for research on "Reconnaissance study of bar-forming processes and braiding in Gravel-bed braided rivers". Project development reconnaissance in Alaska July, 1990.

Committee on Advanced Study and Research, Lafayette College \$1,200 support for research on the influence of slope aspect and microclimate on soil development, northern California, 1992-1993.

National Science Foundation support for undergraduate student research on "Alluvial fan sedimentology, dynamics and history in east central Pennsylvania". Student support from a Consortial REU grant to Lawrence L. Malinconico, Jr., June 1993 - May 1993.

National Science Foundation support for undergraduate student research on "Bar and island stability on the Delaware River". Student support from a Consortial REU grant to Lawrence L. Malinconico, Jr., June 1991 - April 1992.

National Science Foundation support for research on "The effect of base-level change on fluvial processes, sedimentation and erosion control". Research associate with Dr. Stanley A. Schumm and Dr. Frank G. Ethridge at Colorado State University. NSF support as a research associate June 1991 - August 1992.

Wildlands Conservancy \$500.00 support for undergraduate student research on "Water quality and point source pollution of Bushkill Creek, Easton, PA". Study period November 1989 through May 1990.

Wildlands Conservancy \$800.00 support for undergraduate student research on Possible effects of agricultural activity on Bushkill Creek, PA. Study period September 1990 through May 1991.

Wildlands Conservancy \$500.00 support for undergraduate student research on possible effects of agricultural activity on Bushkill Creek, PA. Study period September 1991 through May 1992.

Undergraduate Theses Directed

Seidenstein, Julia. Clay mineralogy fingerprinting of sediment deposited by Tropical Storm Irene in the Connecticut River Watershed. May 2014.

Benedetto, Zachary. Development of GIS –based surface water and groundwater transport models for the Lower Saucon Township. PA. May 2014.

Conlon, Mricate. Heavy metals in legacy sediments above a low head dam in the Bushkill Creek, Easton, Pa: implications for dam removal. May, 2011.

Medford, Aaron. Late Pleistocene and Holocene stream terraces along the Delaware River, near Easton, Pa, mapped with LiDAR data. May, 2011.

Schubert, Brian, Suspended sediment transport and the effects of algae and moss on the entrainment of silt and clay in the Bushkill Creek watershed, eastern Pennsylvania. B.S. Honors Thesis, Lafayette Geology Department, May 2004.

Julin, G. Matt, A. Hydrogeologic Interpretation of the Neroly Formation Upper Blue sandstone in Tracy California. B.S. Honors Thesis, Lafayette Geology Department, May 2001p.

Ryder, Carrie. Spatial variation in erosion and deposition in a rapidly incising upland

- drainage basin central Nevada. B.S. Honors Thesis, Lafayette Geology Department, May, 2000, 85p.
- Kortz, Brian. Factors Affecting Sediment Color in Late Holocene Sediments, in central Nevada. B.S. Honors Thesis, Lafayette Geology Department, May 1999, 43 p.
- Heberlig, Laura. A Field Verification of Predictions and Analysis of Components of the Waquoit Bay Nitrogen Loading Model, Waquoit Bay, MA. B.S. Honors Thesis, Lafayette Geology Department, May 1998, 71 p.
- Walsh, Douglas. Surface water and Ground water quality and flow in the Schantz Spring Aquifer, Lehigh County, PA. B.S. Honors Thesis, Lafayette Geology Department, May 1997, 45 p.
- Gloss, Julie. Differentiation of alluvial fans and fan-shaped pediments in the Appalachian Mountains in the East central Appalachians. B.S. Honors Thesis, Lafayette Geology Department, May 1995, 44 p.
- Hickey, Geoffrey, A. Shear stress distributions around linguoid bars in Alaskan braided rivers. B.S. Honors Thesis, Lafayette Geology Department, May 1993, 68 p.
- Coykendall, John, P. A case study of the variability of nitrogen levels in Bushkill Creek, Northampton County, PA. B.S. Honors Thesis, Lafayette Geology Department, May 1992, 62 p.
- Braunwell, Pamela. Non-point source contaminants and water quality in Bushkill Creek. A.B. Honors Thesis, submitted to Lafayette Geology Department, May 1991, 67 p.
- Kelsey, J. The Bushkill Creek: a point source study. A.B. Thesis, Lafayette Geology Department, May 1990, 70 p.

COLLEGE SERVICE

College Committees

Sustainability Steering Committee 2016- present.

LaFarm Advisory Committee 2014-present.

Environmental Studies and Science Steering Committee, 2008- present

Faculty Delegation to Board of Trustees, Fall 2016.

Committee on Promotions, Tenure, and Review, 2001-2003; 2013 – 16;

Chair 2014-16

replacement member 2004-13 for individual cases as needed.

Information Technology, Faculty representative on Lafayette College Trustees Committee, 2012-14

Presidential Search Committee 2012-13.

Mellon Foundation Committee on Environmental Studies and Environmental Science Chair

2007-12

Faculty Academic Policy Committee. 2010-12

Faculty Academic Policy Budget Subcommittee. 2010-12 Chair 2011-12

Committee on Appeals and Grievance. 2007-2010 chair 2008-09.

Athletics Committee, 2005-2008, chair 2006-08.

Student Life, Faculty representative on Lafayette College Trustees Committee, 2008-10

NCAA Recertification Self-Study Equity and Student-Athlete Welfare Subcommittee 2004

Committee on Promotions, Tenure, and Review, 2001-2003; replacement member 2004-05
for individual cases as needed

Financial Policy, Faculty representative on Lafayette College Trustees Committee, 2000-02

Faculty Academic Policy, 1999-2001 Secretary 1999-2000; Chair Budget Subcommittee,
2000-01

Environmental Sciences Minor Advisory Committee 1993 - 2014, Chair 1995-2014

Evaluation and Enhancement of Instruction 1998-2000, Chair 1998-1999

Governance Committee, 1996-1999, Chair 1996-1998

Financial Policy, Faculty alternate on Lafayette College Trustees Committee, 1998-2000

Educational Policy, Faculty representative on Lafayette College Trustees Committee, 1996-
1998

Organization Committee, 1994-1995

Academic Council 1993-1994, Secretary 1993-1994

Committee on the Enhancement of Teaching, 1990-1993, Chair 1992-1993

Committee on the Economic Status of the Faculty, 1990-1993, Chair 1992-1993,
Secretary 1991-1992

Ad hoc Committee on College Governance 1992-1994

Interview Committee, Presidential Search, 1990

Mellon Science Course Development Subcommittee, 1990-1991

PROFESSIONAL SERVICE

Memberships

1985 - present Sigma Xi Scientific Research Society

1987 - present American Geophysical Union

1982 - present Geological Society of America

1989 - 1998 American Quaternary Association

1990 - present Philadelphia Geological Society

1990 - present Friends of the Pleistocene – Southeast Cell

Evaluation of Grant Proposals and Manuscripts for Journal and Book publishers

Journals / Conference Proceedings:

Geological Society of America *Geosphere* recognized formally by the Geological
Society of America as an “Exceptional Reviewer” 2015

The Anthropocene

American Journal of Science

Bulletin of the Geological Society of America

The Journal of Geology

Hydrology

Geomorphology

The Journal of the Association of Water Resources

Recent Advances in Fluvial Sedimentology

Journal of Sedimentary Research

Great Basin Riparian Ecosystems: Ecology, Management, and Restoration, Island Press.

Books:

Reading the Earth A Guide to Landforms

Environmental Geology, textbook manuscript, John Wiley and Sons

Environmental Geology, textbook, W.C. Brown Publishing

Geology and the Environment,, textbook, Prentice-Hall Publishing

Experimental Fluvial Geomorphology, John Wiley and Sons

Grant Proposals:

American Chemical Society - Petroleum Research Fund

National Science Foundation

National Geographical Society

Served as a panelist for the Environmental Protection Agency graduate student research Fellowships 1996; 1997, 1998, 1999, 2004, 2005.

Other Professional Activities

I conducted an external review of the Geology Program at the University of Mt. Union, Ohio. March 2015.

I served as a member of an External Review Committee for the Environmental Sciences Degree program at Kutztown University Fall 2012.

I served on a PA Department of Environmental Protection Agency panel on legacy sediment to guide management of the Chesapeake Bay watershed.

Co-Technical Chair, of the NE sectional meeting of the Geological Society of America, Fall-Spring 2013-2014.

Chair/convenor, Marcellus shale theme session at the NE sectional meeting of the Geological Society of America, March, 2014.

Chair/convenor, geomorphology theme session at the annual meeting of the Geological Society of America, November, 2013.

Chair/convenor, geomorphology theme session at the annual meeting of the Geological Society of America, October, 2005.

Chair/convenor, geomorphology theme session at the annual meeting of the Geological Society of America, October, 1999.

Chair technical session at a geomorphology symposium on Applying Geomorphology to Environmental Management, Colorado State University, Fort Collins, Colorado.

Chair, geomorphology session at the annual meeting of the Geological Society of America, October, 1992.

Led a two-day workshop on regional geology and groundwater flow for teachers in Intermediate Unit 20.

Geology Reader, The Wittenberg Review, 1989 - 96.

Taught an Elderhostel Course - Environmental Geology, June 1990, June 1991.

COMMUNITY SERVICE

Member of the Environmental Advisory Council – Lower Saucon Township, PA
2010 - present

Merit badge Counselor, Boy Scouts of America - Environmental Science; Geology; Soil and Water Conservation, Space Exploration, Personal Fitness, Indian Lore, and Fishing

Troop Committee Member Boy Scout Troop 319, 2008 - 2014

Assistant Scoutmaster Boy Scout Troop 319, 2006 - 2008

Assistant Scoutmaster Boy Scout Troop 349, 2001 - 2006

Den Leader Cub Scout Pack 349 1997 - 2004

Assistant Scoutmaster Boy Scout Troop 3, 1989 - 1992