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Professional Licensure

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Education

Ph.D. Geology	Graduation Date: 08/2000	University of Wyoming
M.S. Geology	Graduation Date: 12/1995	UNC-Wilmington
B.S. Geology	Graduation Date: 05/1993	UNC-Wilmington

Positions Held

Associate Professor, Dept. of Environmental, Geographical and Geological Sciences,
Bloomsburg University, Bloomsburg, PA. August 2012 – Present

Assistant Professor, Dept. of Geography and Geosciences, Bloomsburg University
Bloomsburg, PA. August 2007 – August 2012

Adjunct Faculty, STEP-UP Program, Community College of Southern Nevada
Las Vegas, NV. January 2007 – March 2007

Visiting Assistant Professor, Dept. of Geosciences, University of Nevada Las Vegas
Las Vegas, NV. August 2006 – December 2006

Part-Time Instructor, Dept. of Geosciences, University of Nevada Las Vegas
Las Vegas, NV. January 2005 – May 2006

Postdoctoral Scholar, Dept. of Geosciences, University of Nevada Las Vegas
Las Vegas, NV. September 2004 – May 2007

Senior Geologist, Corporate Geologic Services, Vulcan Materials Company
Birmingham, AL. July 2000 - September 2004

Graduate Assistant, , Dept. of Geology and Geophysics, University of Wyoming
Laramie, WY. August 1995-May 2000

Publications

- McLaurin, B.T.** and Dodge, C.H., *in revision*, Bedrock geology of the Laporte quadrangle, Sullivan County, Pennsylvania: Pennsylvania Geological Survey.
- McLaurin, B.T.**, *in revision*, Bedrock geology of the Trout Run quadrangle, Lycoming County, Pennsylvania: Pennsylvania Geological Survey.
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- Keil, D.E., Buck, B., Goossens, D., Teng, Y., Pollard, J., **McLaurin, B.**, Gerads, R., and DeWitt, J., 2016, Health effects from exposure to atmospheric mineral dust near Las Vegas, NV, USA: Toxicology Reports, v.3, p. 785-795.
- Buck, B.J., Londono, S.C., **McLaurin, B.T.**, Metcalf, R., Mouri, H., Selinus, O., and Shelembe, R., 2016, The emerging field of medical geology in brief: some examples: Environmental Earth Sciences, v. 75, DOI 10.1007/s12665-016-5362-6
- Leetham, M., DeWitt, J., Buck, B., Goossens, D., Teng, Y., Pollard, J., **McLaurin, B.**, Gerads, R., and Keil, D., 2016, Oxidative stress and lung pathology following geogenic dust exposure: Journal of Applied Toxicology, DOI 10.1002/jat.3297
- Keil, D., Buck, B., Goossens, D., Teng, Y., Leetham, M., Murphy, L., Pollard, J., Eggers, M., **McLaurin, B.**, Gerads, R. and DeWitt, J., 2016, Immunotoxicological and neurotoxicological profile of health effects following subacute exposure to geogenic dust from sand dunes at the Nellis Dunes Recreation Area, Las Vegas, NV, Toxicology and Applied Pharmacology, Volume 291, p. 1-12, ISSN 0041-008X, <http://dx.doi.org/10.1016/j.taap.2015.11.020>.
- Goossens, D., Buck, B.J., Teng, Y., and **McLaurin, B.T.**, 2015, Surface and airborne arsenic concentrations in a recreational site near Las Vegas, NV: PLOS ONE, <http://dx.doi.org/10.1371/journal.pone.0124271>
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- Baumann, F., Buck, B.J., Metcalf, R.V., **McLaurin, B.T.**, Merkler, D., and Carbone, M., 2015, The presence of asbestos in the natural environment is likely related to mesothelioma in young individuals and women from Southern Nevada: Journal of Thoracic Oncology, v. 10, no. 5, p. 731-737.

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- McLaurin, B.**, 2013, Stop 7 – Sandstone and shale of the lower Huntley Mountain Formation, *in*, Fleeger, G.M., Schmid, K., and Anthony, R., eds., A Tale of Two Provinces: the Nippenose Valley and Route 15 Corridor, 78th Annual Field Conference of Pennsylvania Geologists, Williamsport, PA, p. 155 – 158.
- McLaurin, B.**, 2013, Stop 9 – Contact between the upper Lock Haven Formation (Late Devonian) and the lower Catskill Formation (Late Devonian), *in*, Fleeger, G.M., Schmid, K., and Anthony, R., eds., A Tale of Two Provinces: the Nippenose Valley and Route 15 Corridor, 78th Annual Field Conference of Pennsylvania Geologists, Williamsport, PA, p. 167 – 170.
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- Copeland, A., Quade, J., Watson, J.T., **McLaurin, B.T.**, and Villalpando, E., 2012, Stratigraphy and geochronology of La Playa archaeological site, Sonora, Mexico: Journal of Archaeological Science, v. 39, p. 2934-2944.
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- Soukup, D., Buck, B., Goossens, D., Ulery, A., **McLaurin, B.T.**, Baron, D. and Teng, Y., 2012, Arsenic concentrations in dust emissions from wind erosion and off-road vehicles in the Nellis Dunes Recreational Area, Nevada, USA: Aeolian Research, v. 5, p. 77-89.
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Castor, S.B., **McLaurin, B.T.**, Flynn, K.S., and Ludington, S., 2006, Mineral resource potential of the Arden, Bird Spring, and Sloan Rock Art Areas of Critical Environmental Concern, Clark County, Nevada, Chapter E, 10 p.

Castor, S.B., **McLaurin, B.T.**, Ludington, S., and Flynn, K.S., 2006, Mineral resource potential of the Ash Meadows and Amargosa Mesquite Trees Areas of Critical Environmental Concern, Nye County, Nevada, Chapter F, 13 p.

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Buck, B.J., Keil, D., Goossens, D., DeWitt, J., McLaurin, B., Teng, Y., David, W., Eggers, M., Leetham-Spencer, M., Murphy, L., Young, S., and Pollard, J., 2015. Human Health Risk Assessment of Mineral Dust Exposure, Nellis Dunes Recreational Area, NV, USA. International Society of Exposure Science, Henderson NV, October 2015. Final Abstract Book, p. 201.

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Sandritter, M.J., **McLaurin, B.T.**, James, R.N., Rodemer, F.E. and White, J.J., 2015, Devonian to Mississippian lithofacies and depositional environments from drill core LYCO081_0341, Lycoming County, Pennsylvania: Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.800.

Metcalf, Rodney V., Buck Brenda J., Berry, David, Kent, Douglas, **McLaurin, Brett**, Sumner-Moore, Meg, Urso, Anna, Goossens, Dirk, Merkler, Doug, Jaunch, Jed, 2015, Naturally occurring asbestos near populated areas of southern Nevada: Unusual occurrences of fibrous actinolite and Libby-type Na-Amphibole: MedGeo2015: Book of Abstracts of the 6th International Conference on Medical Geology, UA Editora, Universidade de Aveiro, Portugal, p. 112. Volume - ISBN 978-972-789-449-9

- Sumner-Moore, Meg, Buck Brenda J., Metcalf, Rodney V., and **McLaurin, Brett**, 2015, Characterization and potential toxicity of fibrous amphibole minerals near the Las Vegas metropolitan area: MedGeo2015: Book of Abstracts of the 6th International Conference on Medical Geology, UA Editora, Universidade de Aveiro, Portugal, p. 36. Volume - ISBN 978-972-789-449-9
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- Metcalf, R.V., Buck, B., **McLaurin, B.T.**, 2014, Naturally occurring asbestos near populated areas of southern Nevada: Unusual occurrences of fibrous Libby-type NaFe³⁺-amphibole and actinolite: Geological Society of America Abstracts with Programs. Vol. 46, No. 6, p.54.
- Metcalf, R.V., Buck, B., **McLaurin, B.T.**, 2014, Unusual occurrence of asbestiform Libby-type sodium amphibole near populated areas of southern Nevada, USA: Geological Society of America Abstracts with Programs. Vol. 46, No. 1, p.1.
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- Weicht, D.C., **McLaurin, B.T.**, Shepard, M.K., and Whisner, S, 2013, Geophysical characterization of the Light Street fault, Columbia and Montour counties, Pennsylvania Geological Society of America Abstracts with Programs. Vol. 45, No. 1, p.136.
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Grant Proposals

McLaurin, B.T., Bedrock geologic mapping of the southern half of the Overton 7.5' quadrangle, Sullivan County, Pennsylvania: Submitted to EMAP Program of the U.S. Geological Survey November 2015, \$7827 – Not Funded

McLaurin, B.T., Bedrock geologic map of the Laporte quadrangle, Sullivan County, Pennsylvania-Map revision: Submitted to STATEMAP through the Pennsylvania Geological Survey October 2014, \$15,410 - Funded

McLaurin, B.T., Bedrock geologic map of the Trout Run quadrangle, Lycoming County, Pennsylvania: Submitted to STATEMAP through the Pennsylvania Geological Survey October 2013, \$31,317 - Funded

McLaurin, B.T., Petrographic analysis of arsenic-bearing lacustrine deposits, Nellis Dunes Recreation Area, Clark County, Nevada: Submitted to the Bloomsburg University Research/Scholarship Grant Program June 2013, \$1,375 - Funded

McLaurin, B.T., Bedrock geologic map of the Laporte quadrangle, Sullivan County, Pennsylvania: Submitted to STATEMAP through the Pennsylvania Geological Survey October 2012, \$31,377 - Funded

McLaurin, B.T., Geophysical characterization of the Light Street fault, Columbia and Montour counties, Pennsylvania: Submitted to the Bloomsburg University Research/Scholarship Grant Program March 2012, \$3,245 - Funded

McLaurin, B.T., Watson, J.T., and Brack, M., Collaborative research: Quaternary dynamics of human-environment interaction and landscape evolution at the La Playa archaeological site, Sonora, Mexico: Submitted to the National Science Foundation January 2012, \$65,150 – Not funded

McLaurin, B.T., Watson, J.T., and Brack, M., Collaborative research: Quaternary dynamics of landscape evolution and 13,000 years of human interaction at the La Playa (SON F:10:3) archaeological site, Sonora, Mexico: Submitted to the National Science Foundation January 2010, \$65,946 – Not funded.

McLaurin, B.T., Luminescence dating to determine the timing of climatic transition and landscape change: Submitted to the Bloomsburg University College of Science and Technology Research/Scholarship fund October 2009, \$1,500 - Funded

McLaurin, B.T., Detrital zircon geochronology of the El Chanate Group, northwestern Sonora, Mexico: Submitted to the Bloomsburg University Grants for Research and Disciplinary Projects October 2008, \$6,564 – Funded

McLaurin, B.T., Bedrock geologic map of the Blossburg quadrangle, Tioga County, Pennsylvania: Submitted to STATEMAP through the Pennsylvania Geological Survey October 2008, \$74,779 - Funded

McLaurin, B.T., Investigation of a potential meteorite impact crater, Atlantic Coastal Plain, North Carolina: Submitted to the Pennsylvania State System of Higher Education, Faculty Professional Development Council February 2008, \$6,161 – Funded

McLaurin, B.T., Bedrock geologic map of the Mansfield quadrangle, Tioga County, Pennsylvania: Submitted to STATEMAP through the Pennsylvania Geological Survey October 2007, \$26,180 - Funded

McLaurin, B.T., Sedimentary rock collection enhancement project: Submitted to the Bloomsburg University College of Science and Technology Research/Scholarship fund October 2007, \$1,405 – Funded

Snelson, C.M. and **McLaurin, B.T.**, Seismic imaging of Laramide tectonic control on stratigraphic architecture, Book Cliffs, UT: A case study: Submitted to American Chemical Society's Petroleum Research Fund (PRF) April 2006, \$85,760 – Not funded

Snelson, C.M. and **McLaurin, B.T.**, Unraveling Atlantic Coastal Plain Tectonics: Graingers Fault Zone, North Carolina: Submitted to NSF May 2005, \$239,923 – Not funded.

McLaurin, B.T. and Snelson, C.M., High-resolution geophysical assessment of neotectonism in the Graingers Fault Zone, Atlantic Coastal Plain, North Carolina: Submitted to U.S. Geological Survey National Earthquake Hazards Reduction Program April 2005, \$65,400 – Not funded.

Courses Taught

EGGS 107 Natural Disasters
EGGS 120 Physical Geology
EGGS 130 Historical Geology
EGGS 260 Earth Materials
EGGS 368 Stratigraphy and Sedimentation
EGGS 463 Petroleum Geology
EGGS 475 Independent Study in Environmental, Geographical and Geological Sciences
EGGS 490 Special Topics in Geology
EGGS 493 Research In Environmental, Geographical and Geological Sciences.

Service

Department of Geography and Geosciences Curriculum Committee: 2007 – 2012
Advisor to the Bloomsburg University Geological Society: 2007 - 2012
Department of Environmental, Geographical and Geological Sciences Technology Committee: 2008 – Present
Department of Geography and Geosciences Search Committee for Temporary Pool: 2010 – Present
Department of Environmental, Geographical and Geological Sciences Observation/Evaluation Committee: 2012 – 2016
Department of Environmental, Geographical and Geological Sciences Promotion Committee: 2012 – 2016
Department of Environmental, Geographical and Geological Sciences Tenure Committee: 2013-2014
College of Science and Technology Undergraduate Research Committee: 2008 – 2013
College of Science and Technology Technology Committee: 2008 – 2014
College of Science and Technology Curriculum Committee: 2010 – 2013

Bloomsburg University Curriculum Committee: 2015-Present
Bloomsburg University Tenure Committee: 2014 - 2015
Bloomsburg University Appeals Committee: 2009 – 2015
Geological Society of America Campus Representative: 2008 – Present
Geological Society of America Representative to the North American Commission on
Stratigraphic Nomenclature: 2006 – 2009
Geosciences Division Editor – Keystone Journal of Undergraduate Research: 2010 - 2012