

# Scott A. Lecce

Professor  
Department of Geography  
East Carolina University  
Greenville, North Carolina 27858  
Office Phone: (252) 328-1047 Home Phone: (252) 902-4571  
Email: lecces@ecu.edu

*Revised August 24, 2010*

## EDUCATION

Ph.D., 1993, University of Wisconsin-Madison, Department of Geography

**Minor:** Geology

**Dissertation:** *Fluvial response to spatial and temporal variations of stream power, Blue River, Wisconsin*

**Advisor:** James C. Knox

**Committee:** Vance T. Holliday, David M. Mickelson, Thomas R. Vale, Dorothy Sack

M. A., 1988, Arizona State University, Department of Geography

**Thesis:** *Influence of lithology on alluvial fan morphometry, White and Inyo Mountains, California and Nevada*

**Advisor:** William L. Graf

**Committee:** Jonathan D. Phillips, Anthony J. Brazel

A. B., 1985, University of California, Berkeley, Department of Geography, Phi Beta Kappa

## PROFESSIONAL EXPERIENCE

- 2009-           **Professor**, Department of Geography, East Carolina University.
- 2002-09       **Associate Professor**, Department of Geography, East Carolina University.
- 1998-02       **Assistant Professor**, Department of Geography, East Carolina University.
- 1994-98       **Assistant Professor**, Department of Geography and Area Development,  
University of Southern Mississippi.
- 1993-94       **Adjunct Faculty**, Department of Geography and Geology, Indiana State  
University.

- 1993-94      **Lecturer**, Department of Geography, Indiana University-Purdue University at Indianapolis.
- 1991, 93      **Lecturer**, Department of Geography, University of Wisconsin-Madison.
- 1992          **Research Assistant**, Department of Geography, University of Wisconsin-Madison.
- 1988-91      **Teaching Assistant**, Department of Geography, University of Wisconsin-Madison.
- 1988          **Research Assistant**, Laboratory of Climatology, Arizona State University.
- 1986-87      **Research Assistant**, Department of Geography, Arizona State University.
- 1985-86      **Teaching Assistant**, Department of Geography, Arizona State University.

#### PAPERS IN PREPARATION

- James, L.A. and **Lecce, S.A.** Land use and rivers. In: Wohl, E.E. (Ed.), Vol. 9, *Treatise on Geomorphology*. Elsevier, Oxford. (invited book chapter, in review).
- Lecce, S.A.**, Pavlowsky, R.T., and Schlomer, G.S. Trace metal contamination from gold mining in the Cid District, North Carolina (to be submitted to *Physical Geography*).
- Pavlowsky, R.T. and **Lecce, S.A.** Process and patterns of mining-contaminated sediment dispersal in river systems. (to be submitted to *Geography Compass*)

#### REFEREED PUBLICATIONS

26. Pavlowsky, R.T., **Lecce, S.A.**, Bassett, G.S., and Martin, D.J. Legacy Hg-Cu contamination of active stream sediments in the Gold Hill Mining District, North Carolina. *Southeastern Geographer* (accepted)
25. O'Driscoll, M.A., Soban, J.R. and **Lecce, S.A.** 2009. Stream channel enlargement response to urban land cover in small Coastal Plain watersheds, North Carolina. *Physical Geography* 30: 528-555.
24. **Lecce, S.A.** 2009. A depth-proportional intake device for automatic water samplers. *Journal of the American Water Resources Association* 45:272-277.
23. **Lecce, S.A.** and Kotecki, E.S. 2008. The 1999 flood of the century in eastern North Carolina: Extraordinary hydro-meteorological event or human-induced catastrophe? *Physical Geography* 29:101-120.

22. **Lecce, S.A.**, Pavlowsky, R.T., and Schlomer, G.S. 2008. Mercury contamination of active channel sediment and floodplain deposits from historic gold mining at Gold Hill, North Carolina, USA. *Environmental Geology* 55:113-121.
21. Curtis, S., Crawford, T.W., and **Lecce, S.A.** 2007. A Comparison of TRMM to Other Basin-Scale Estimates of Rainfall during the 1999 Hurricane Floyd Flood. *Natural Hazards* 43:187-198.
20. Pease P.A., **Lecce S.A.**, Gares P.A., Rigsby, C.A. 2007. Heavy metal concentrations in sediment deposits on the Tar River floodplain following Hurricane Floyd, *Environmental Geology* 51:1103-1111.
19. **Lecce, S.A.**, Gares, P.A., and Pease, P.P. 2006. Drainage ditches as sediment sinks on the Coastal Plain of North Carolina. *Physical Geography* 27:447-463.
18. **Lecce, S.A.**, Pease, P.P., Gares, P.A. and Wang, J. 2006. Seasonal controls on sediment delivery in a small coastal plain watershed, North Carolina, USA. *Geomorphology* 73:246-260.
17. **Lecce, S.A.**, Pease, P.P., Gares, P.A. and Rigsby, C.A. 2004. Floodplain sedimentation during an extreme flood: The 1999 Flood on the Tar River, eastern North Carolina. *Physical Geography* 25(4):334-346.
16. **Lecce, S.A.** and Alderman, D.H. 2004. The *Southeastern Geographer*: Looking forward, looking back. *Southeastern Geographer* 44:1-7.
15. **Lecce, S.A.** and Pavlowsky, R.T. 2004. Spatial and temporal variations in the grain-size characteristics of historical flood plain deposits, Blue River, Wisconsin, USA. *Geomorphology* 61: 361-371.
14. Pease, P.P., Gares, P.A., and **Lecce, S.A.** 2002. Eolian dust erosion from an agricultural field on the North Carolina coastal plain. *Physical Geography* 23:381-400.
13. Pease, P.P., **Lecce, S.A.**, Gares, P.A., and Lange, M. 2002. Suggestions for low-cost equipment in physical geography II: Field equipment. *Journal of Geography* 101:199-206.
12. Pease, P.P., **Lecce, S.A.**, Gares, P.A., and Lange, M. 2002. Suggestions for low-cost equipment in physical geography I: Laboratory equipment. *Journal of Geography* 101:167-175.
11. **Lecce, S.A.** and Pavlowsky, R.T. 2001. Use of mining-contaminated sediment tracers to investigate the timing and rates of historical floodplain sedimentation. *Geomorphology* 38: 85-108.
10. **Lecce, S.A.** 2000. Spatial variations in the timing of annual floods in the southeastern United States. *Journal of Hydrology* 235(3/4):151-169.
9. **Lecce, S.A.** 2000. Seasonality of flooding in North Carolina. *Southeastern Geographer* 41:168-175.
8. **Lecce, S.A.** 2000. Fallacy of the 500-year flood: A cautionary note on flood frequency analysis. *North Carolina Geographer* 8:29-40.
7. Lange, M., **Lecce, S.A.** and Pease, P.P. 2000. Sediment storage and drainage ditch excavation on the North Carolina Coastal Plain. *North Carolina Geographer* 8:55-63.

6. **Lecce, S.A.** 1997. Non-linear downstream changes in stream power on Wisconsin's Blue River. *Annals of the Association of American Geographers* 87(3):471-486.
5. **Lecce, S.A.** 1997. Spatial patterns of historical overbank sedimentation and floodplain evolution, Blue River, Wisconsin, *Geomorphology* 18:265-277.
4. **Lecce, S.A.** and Pavlowsky, R. T. 1997. Storage of mining-related zinc in floodplain sediments, Blue River, Wisconsin. *Physical Geography* 18(5):424-439.
3. **Lecce, S.A.** 1993. Flow separation and diurnal variations in the hydrology of Conness Glacier, Sierra Nevada, California, U.S.A. *Journal of Glaciology* 39(132):216-222.
2. **Lecce, S.A.** 1991. Influence of lithologic erodibility on alluvial fan area, western White Mountains, California and Nevada. *Earth Surface Processes and Landforms* 16:11-18.
1. **Lecce, S.A.** 1990. The alluvial fan problem. In: Rachocki, A. H. and Church, M. (Eds.), *Alluvial Fans: A Field Approach*, John Wiley and Sons, Chichester, p. 3-24.

#### NON-REFEREED PUBLICATIONS

5. **Lecce, S.A.**, Pease, P.P., Gares, P.A. and Rigsby, C.A. 2001. Sedimentation on the Tar River floodplain associated with Hurricane Floyd. In: *Facing Our Future: Hurricane Floyd and Recovery in the Coastal Plain*, Maiolo, J.R., Whitehead, J.C., McGee, M., King, L., Johnson, J., and Stone, H. (eds.), Coastal Carolina Press, Wilmington, NC, 187-193.
4. Graf, W.L., Haschenburger, J.K., and **Lecce, S.A.** (Eds.), 1988. *The Salt and Gila Rivers in Central Arizona: A Geographic Field Trip Guide*, Department of Geography Publication 3, Arizona State University, 180 p.
3. **Lecce, S.A.**, The McDowell Crossing. In: Graf, W.L., Haschenburger, J.K., and Lecce, S.A. (Eds.), 1988. *The Salt and Gila Rivers in Central Arizona: A Geographic Field Trip Guide*, Chapter 5, Department of Geography Publication 3, Arizona State University, p. 76-90.
2. **Lecce, S.A.**, Gillespie Dam. In: Graf, W.L., Haschenburger, J.K., and Lecce, S.A. (Eds.), 1988. *The Salt and Gila Rivers in Central Arizona: A Geographic Field Trip Guide*, Chapter 13, Department of Geography Publication 3, Arizona State University, p. 168-180.
1. **Lecce, S.A.** 1990. Influence of lithology on alluvial fan morphometry, White and Inyo mountains, California and Nevada. *Journal of the Arizona-Nevada Academy of Science* 23(2):91.

**Lecce, S.A.** Alluvial fans. In: Fairbridge, R.W. and Gerrard, J. (eds.) *The Encyclopedia of Geomorphic Processes and Landforms* (3600 word invited entry), accepted.

#### REPORTS

2. **Lecce, S.A.**, Pease, P.P., Gares, P.A., and Rigsby, C.A. 2002. *The Aftermath of Hurricane Floyd: Assessment of the Geomorphic Effectiveness of the 1999 Flood on the Tar River, North Carolina*. Final Report for National Science Foundation Grant #0000557.
1. **Lecce, S.A.** and Pavlowsky, R.A. 2001. *Lateral Deposition and Geochemical Evolution of Mining-Related Metals in Floodplain Sediments*. Final Report for National Science Foundation Grant #9996013, 31 p.

## GRANTS AWARDED

- |         |   |
|---------|---|
| 2008    | Co- PI. <i>Big River Mine Sediment Assessment Project</i> . U.S. Fish and Wildlife Service, with Robert T. Pavlowsky (PI) and Kevin Mickus (co-PI), \$92,000, (\$15,185 to Lecce).  |
| 2007    | PI. <i>Mercury Contamination of Floodplain Sediments from Historic Gold Mining in North Carolina</i> , National Geographic Society, Committee for Research and Exploration, \$19,581.   |
| 2006    | PI. <i>Mercury Contamination of Floodplain Sediments from Historic Gold Mining in North Carolina</i> , Research Development Grant, Division of Research and Graduate Studies, East Carolina University, \$24,354.                                 |
| 2006    | PI. <i>Sediment Pollution from Construction Site Erosion in an Urban Stream</i> , Research/Creative Activity Grant, Harriot College of Arts and Sciences, East Carolina University, \$9,411.  |
| 2004    | PI. <i>Suspended Sediment Transport in an Urbanized Stream</i> , Research/Creative Activity Grant, Faculty Senate, East Carolina University, \$16,530.  |
| 2002    | PI. <i>Sediment Transport in a Small Agricultural Watershed</i> , Research/Creative Activity Grant, Faculty Senate, East Carolina University, \$8,984.  |
| 2000-02 | PI. <i>The Aftermath of Hurricane Floyd: Assessment of the Geomorphic Effectiveness of the 1999 Flood on the Tar River, North Carolina</i> , National Science Foundation, with co-PI's Patrick Pease, Paul Gares, and Catherine Rigsby, \$30,394. |
| 2000-01 | Co-PI. <i>Monitoring the Environment</i> , Dwight D. Eisenhower Professional Development Program, with Paul Gares (PI) and Jeff Colby (co-PI), \$29,982.  |
| 1997-01 | PI. <i>Lateral Deposition and Geochemical Evolution of Mining-Related Metals in Floodplain Sediments</i> , National Science Foundation, with Robert T. Pavlowsky (co-PI), \$116,922.  |

- 1994-95 Co-PI. *Strategic Plan for the Mississippi Department of Marine Resources*, Mississippi Department of Marine Resources, with R. W. Wales (co-P.I.), G. R. Larkin (co-P.I.), and T. R. Henthorne, \$65,000.
- 1987 PI. *Influence of Lithologic Erodibility on Alluvial Fan Area, Western White Mountains, California and Nevada*, Graduate Student Association Research Development Program Grant-in-Aid, Arizona State University, \$433.
- 1987 PI. *Influence of Lithology on Alluvial Fan Morphometry, White and Inyo Mountains, California and Nevada*, Arizona-Nevada Academy of Science Grant-in-Aid, \$250.
- 1986 PI. *Alluvial Fan Morphometry*, Research Incentive Grant, Department of Geography, Arizona State University, \$450.

## PRESENTATIONS

- 2010 Pavlowsky, R.T., Martin, D.J., Owen, M., and Lecce, S.A. *Historical Disturbance and Geomorphic Recovery of Big River, Eastern Missouri*, Geological Society of America Annual Meeting, Denver, CO.
- 2010 Pavlowsky, R.T., Lecce, S.A., Owen, M.R., Martin, D.J. *Channel dispersal and storage of mining sediment in the Big River, Old Lead Belt, SE Missouri*. 106th Annual Meeting of the Association of American Geographers, Washington, DC.
- 2010 Pavlowsky, R.T., Lecce, S.A., Martin, D.J., Owen, M.R. *Preliminary report on contaminated sediment concentrations, distribution, and volume in channel and floodplain deposits of the Big River in St. Francois, Washington, and Jefferson Counties, Missouri*. Missouri Natural Resources Conference, MO.
- 2009 Pavlowsky, R.T., Lecce, S.A., Schlomer, G.J., and Martin, D.J. *Legacy of Hg-Cu contamination of active stream sediments in the Gold Hill Mining District, North Carolina*. Annual Meeting of the Southeastern Division of the Association of American Geographers, Knoxville, Tennessee.
- 2009 Pavlowsky, R.T., Lecce, S.A., Owen, M.R., Martin, D.J., Dryer, W.P., and Womble, P. *Floodplain and Channel Storage of Mining-related Lead in the Big River, Old Lead Belt, SE Missouri*. 40th Binghamton Symposium in Geomorphology: Geomorphology and Vegetation: Interactions, Dependencies, and Feedback Loops, October 2009, Virginia Tech - Blacksburg, Virginia.

- 2009 Lecce, S.A. and Kotecki, E.S. *The 1999 Flood of the century: Extraordinary hydro-meteorological or event or human induced catastrophe?* Hurricane Floyd Symposium: Commemorating the 10th Anniversary of Hurricane Floyd, Greenville, NC.
- 2009 Lecce, S.A., Pavlowsky, R.T. and Martin, D.J. *Fluvial Sediment Quality and Toxic Risk in a Watershed Affected by Historical Gold Mining in North Carolina*. 105th Annual Meeting of the Association of American Geographers, Las Vegas, Nevada.
- 2009 Pavlowsky, R.T., Lecce, S.A., Schlomer, G.J., and Martin, D.J. *Historical channel and floodplain evolution of Dutch Buffalo Creek, North Carolina Piedmont*. 105th Annual Meeting of the Association of American Geographers, Las Vegas, Nevada.
- 2009 Dryer, P., Pavlowsky, R.T., Lecce, S.A., and Martin, D.J. *Mining-related contamination of channel and overbank sediments in the Big River, Old Lead Belt, SE Missouri*. 105th Annual Meeting of the Association of American Geographers, Las Vegas, Nevada.
- 2008 Lecce, S.A. *Trace Metal Contamination in the Cid Mining District, North Carolina*. 104th Annual Meeting of the Association of American Geographers, Boston, Massachusetts.
- 2008 Pavlowsky, R.T., Lecce, S.A., and Martin, D.J. *Dispersal of metal contaminants from historical mining by active channel sediments in a Piedmont North Carolina stream*. 104th Annual Meeting of the Association of American Geographers, Boston, Massachusetts.
- 2007 Schlomer, G. J., Pavlowsky, R.T., Lecce, S.A. *Using Geochemical and Sedimentological Trends to Characterize Pre- and Post- Settlement Overbank Floodplain Deposits in a North Carolina Piedmont Watershed*. Annual Meeting of the Geological Society of America, Denver, CO, 28–31 October 2007.
- 2007 Lecce, S.A., Pavlowsky, R.T., and Schlomer, G.J. *Mercury Contamination of Floodplain Sediments from Historic Gold Mining in Gold Hill, North Carolina*. 103<sup>rd</sup> Annual Meeting of the Association of American Geographers, San Francisco, California.
- 2007 Schlomer, G.J., Pavlowsky, R.T., and Lecce, S.A. *Using Geochemical and Sedimentological Trends to Identify Pre- and Post- Settlement Boundaries in Floodplain Deposits of the North Carolina Piedmont*.

- 103<sup>rd</sup> Annual Meeting of the Association of American Geographers, San Francisco, California.
- 2006 Curtis, S., Crawford, T, and Lecce, S.A. *A Comparison of TRMM to Other Basin-Scale Estimates of Rainfall during the 1999 Hurricane Floyd Flood*. Annual Meeting of the Southeastern Division of the Association of American Geographers, Morgantown, West Virginia.
- 2006 Lecce, S.A., Pavlowsky, R.T., and Schlomer, G.J. *Mercury Contamination of Floodplain Sediments from Historic Gold Mining in North Carolina*. 37<sup>th</sup> Binghamton Symposium in Geomorphology, The Human Role in Changing Fluvial Systems, October 2006.
- 2006 Schlomer, G.J., Pavlowsky, R.T., and Lecce, S.A. *Use of Gold Mining-Related Mercury in Geochemical Profiles to Investigate Timing and Rates of Historical Floodplain Sedimentation in the North Carolina Piedmont*. 37<sup>th</sup> Binghamton Symposium in Geomorphology, The Human Role in Changing Fluvial Systems, October 2006.
- 2006 Beasley, O.A., and Lecce, S.A. *An Evaluation of a Depth-Proportional Intake Device for Automatic Water Samplers Measuring Suspended Sediment*. East Carolina University Undergraduate Research Symposium, Greenville, North Carolina.
- 2006 Lecce, S.A., and Kotecki, E.S. *The 1999 Flood of the Century: Extraordinary Hydro-meteorological Event or Human-induced Catastrophe?* 102<sup>nd</sup> Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- 2005 Lecce, S.A. *A Depth-Proportional Sampling Device for Automatic Water Samplers*. Annual Meeting of the Southeastern Division of the Association of American Geographers, West Palm Beach, Florida.
- 2005 Lecce, S.A., Gares, P.A., and Pease, P.P., *Seasonal Variations in Sediment Flux through Agricultural Drainage Ditches on the Coastal Plain of North Carolina*. 101<sup>st</sup> Annual Meeting of the Association of American Geographers, Denver, Colorado.
- 2004 Lecce, S.A., Pease, P.P., Gares, P.A., and Wang, J. *The Storage and Transport of Sediment in Agricultural Drainage Ditches on the Coastal Plain*. 100<sup>th</sup> Annual Meeting of the Association of American Geographers, Philadelphia, Pennsylvania.
- 2002 Lecce, S.A., Pease, P.P., Gares, P.A., and Wang, J. *Suspended Sediment Transport in a Small, Coastal Plain Watershed*. Annual Meeting of the

Southeastern Division of the Association of American Geographers,  
Richmond, Virginia.

- 2002 Pease, P.P., Gares, P.A., and Lecce, S.A. *Aeolian Dust Erosion from an Agricultural Field on the North Carolina Coastal Plain*. Annual Meeting of the Southeastern Division of the Association of American Geographers, Richmond, Virginia.
- 2002 Pavlowsky, R. T. and Lecce, S. A. *Geomorphic Controls on Geochemical Trends in Mining-Contaminated Floodplain Deposits*. 98<sup>th</sup> Annual Meeting of the Association of American Geographers, Los Angeles, California.
- 2001 Lecce, S. A. and Pavlowsky, R. T. *Dispersal of Mining-contaminated Sediments in Floodplains, Blue River, Wisconsin*. Annual Meeting of the Southeastern Division of the Association of American Geographers, Lexington, Kentucky.
- 2001 Wang, J. and Lecce, S. A. *Suspended Sediment Transport in Agricultural Drainage Ditches on the Coastal Plain of North Carolina*. Annual Meeting of the Southeastern Division of the Association of American Geographers, Lexington, Kentucky.
- 2001 Pease, P., Lecce, S. A., and Gares, P. A. *Concentrations And Heavy Metal Contamination Of Overbank Deposits On The Floodplain Of The Tar River, NC, Following Hurricane Floyd*. Annual Meeting of the Southeastern Division of the Association of American Geographers, Lexington, Kentucky.
- 2001 Lecce, S. A., Pease, P. P., Gares, P. A., and Rigsby, C. A. *Sedimentation on the Tar River floodplain during the flood of 1999*, 97<sup>th</sup> Annual Meeting of the Association of American Geographers, New York, New York.
- 2001 Pavlowsky, R. T. and Lecce, S. A. *Downstream changes in metal-grain size relationships in fluvial sediment from mined watersheds*, 97<sup>th</sup> Annual Meeting of the Association of American Geographers, New York, New York.
- 2000 Pease, P. P., Lecce, S. A., Gares, P. A., and Rigsby, C. A. *Sedimentation on the Floodplain of the Tar River Following Hurricane Floyd*, Of People, Place, and Progress: Extended Recovery on the Coastal Plain, East Carolina University, Greenville, North Carolina, May 24-26, 2000.
- 2000 Lecce, S. A., Pease, P. P., Gares, P. A., and Rigsby, C. A. *Sedimentation in the Tar River flood plain associated with Hurricane Floyd*, Hurricane

Floyd and its Aftermath: Recovery in the Coastal Plain, East Carolina University, Greenville, North Carolina, May 24-26, 2000.

- 2000 Lecce, S. A. and Pavlowsky, R. T. *Timing and rates of historical floodplain sedimentation*, 96<sup>th</sup> Annual Meeting of the Association of American Geographers, Pittsburgh, Pennsylvania.
- 2000 Lange, M. and Lecce, S. A. *Channel narrowing and sediment storage in an agricultural drainage on the North Carolina Coastal Plain*, 96<sup>th</sup> Annual Meeting of the Association of American Geographers, Pittsburgh, Pennsylvania.
- 1999 Lange, M. and Lecce, S. A. *Channel narrowing and sediment recycling in a Coastal Plain agricultural drainage basin, North Carolina*, Annual Meeting of the Southeastern Division of the Association of American Geographers, Tampa, Florida.
- 1999 Lecce, S. A. *Spatial variations in the timing of annual floods*, 95<sup>th</sup> Annual Meeting of the Association of American Geographers, Honolulu, Hawaii.
- 1999 Pavlowsky, R. T. and Lecce, S. A. *Use of geochemical tracers to study floodplain sedimentation patterns in mined watersheds*, 95<sup>th</sup> Annual Meeting of the Association of American Geographers, Honolulu, Hawaii.
- 1998 Pavlowsky, R. T., Lecce, S. A., and Carlson, J. *Use of Zn-Pb mining contaminants to evaluate sedimentation patterns in Midwestern streams (USA)*, Tracers in Geomorphology, Meeting of the British Geomorphological Research Group, University of Coventry, London, U.K.
- 1998 Lecce, S. A. and Pavlowsky, R. T. *Lateral variability of sediment-associated metal contamination in floodplains*, 94<sup>th</sup> Annual Meeting of the Association of American Geographers, Boston, Massachusetts.
- 1997 Lecce, S. A. and Pavlowsky, R. T. *Impacts of channelization on channel stability in a suburban watershed*, 93rd Annual Meeting of the Association of American Geographers, Fort Worth, Texas.
- 1996 Lecce, S. A. and Pavlowsky, R. T. *Floodplains as long-term sources of metal contamination in mined watersheds*, 92nd Annual Meeting of the Association of American Geographers, Charlotte, North Carolina.

- 1995 Lecce, S. A. and Pavlowsky, R. T. *Mining sediments as tracers in alluvial deposits*, 91st Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- 1994 Lecce, S. A. *Downstream changes in channel shape along the Blue River, Wisconsin*, 90th Annual Meeting of the Association of American Geographers, San Francisco, California.
- 1993 Lecce, S. A. *Floodplain sediment storage in the Blue River Basin, Wisconsin*, 89th Annual Meeting of the Association of American Geographers, Atlanta, Georgia.
- 1992 Lecce, S. A. *Spatial variation of stream power, Blue River watershed, Wisconsin*, 88th Annual Meeting of the Association of American Geographers, San Diego, California.
- 1990 Lecce, S. A. *Hydroglaciology of Conness Glacier, California*, 86th Annual Meeting of the Association of American Geographers, Toronto, Canada.
- 1988 Lecce, S. A. *Alluvial fan morphometry in the White and Inyo Mountains, California and Nevada*, 84th Annual Meeting of the Association of American Geographers, Phoenix, Arizona.
- 1988 Lecce, S. A. *McDowell Crossing*, The Salt and Gila River Field Trip, Geomorphology Specialty Group, 84th Annual Meeting of the Association of American Geographers, Phoenix, Arizona.
- 1988 Lecce, S. A. *Gillespie Dam*, The Salt and Gila River Field Trip, Geomorphology Specialty Group, 84th Annual Meeting of the Association of American Geographers, Phoenix, Arizona.
- 1987 Lecce, S. A. *Tectonic geomorphology in the White Mountains and Inyo Mountains of California and Nevada*, Annual Meeting of the Arizona-Nevada Academy of Science, Northern Arizona University, Flagstaff, Arizona.
- 1987 Lecce, S. A. *Spatial variation of alluvial fan morphometry in the White Mountains, California*, 83rd Annual Meeting of the Association of American Geographers, Portland, Oregon.

#### INVITED PRESENTATIONS

- 2007 Lecce, S.A. *The Legacy of Nineteenth-Century Gold Mining in North Carolina*. Invited lecture at the East Carolina University Department of Geography Colloquium Series.

- 2007 Lecce, S.A. *The Legacy of Nineteenth-Century Gold Mining in North Carolina*. Distinguished lecture at the Annual North Carolina Geographical Society Meeting, Charlotte, North Carolina, 6 October 2007.
- 2005 Lecce, S.A. *Lessons from the Flood of the Century*. Invited lecture to the Kiwanis Club, Greenville, North Carolina.
- 2005 Lecce, S.A. *Sediment Budget in a Small Coastal Plain Watershed*. Invited lecture, Department of Geology, East Carolina University.
- 2005 Lecce, S.A. *Sediment Delivery in a Small Coastal Plain Watershed*. Invited lecture, Department of Earth Sciences, University of North Carolina, Wilmington.
- 2001 Lecce, S. A. *Accelerated rates of historical floodplain sedimentation*, invited lecture, Department of Geology, East Carolina University.
- 1993 Lecce, S. A. *Stream power and historical sediment storage on floodplains in southwestern Wisconsin*, invited lecture, Indiana State University Geography and Geology Colloquium Series, Terre Haute, Indiana.

#### **CONFERENCE PAPER DISCUSSANT**

- 2004 Paper Discussant, Annual Meeting of the Southeastern Division of the Association of American Geographers, Biloxi, Mississippi.
- 2003 Paper Discussant, Annual Meeting of the Southeastern Division of the Association of American Geographers, Charlotte, North Carolina.
- 2002 Paper Discussant, Annual Meeting of the Southeastern Division of the Association of American Geographers, Richmond, Virginia.
- 2001 Paper Discussant, Annual Meeting of the Southeastern Division of the Association of American Geographers, Lexington, Kentucky.
- 2000 Paper Discussant, Annual Meeting of the Southeastern Division of the Association of American Geographers, Chapel Hill, North Carolina.
- 1999 Paper Discussant, Annual Meeting of the Southeastern Division of the Association of American Geographers, Tampa, Florida.
- 1997 Paper Discussant, Annual Meeting of the Southeastern Division of the Association of American Geographers, Birmingham, Alabama.

- 1996 Paper Discussant, Annual Meeting of the Southeastern Division of the Association of American Geographers, Athens, Georgia.
- 1995 Paper Discussant, Annual Meeting of the Southeastern Division of the Association of American Geographers, Knoxville, Tennessee.

#### **CONFERENCE SESSION PANELIST**

- 2007 “Writing and Publishing for Early Career Faculty and Graduate Students.” Special Panel Session, Annual Meeting of the Southeastern Division of the Association of American Geographers, Charleston, South Carolina.

#### **CONFERENCE SESSION ORGANIZER**

- 2009 “Fluvial Processes and Small Southeastern Watersheds I.” Special Session co-organizer (with Allan James and Lisa Davis). Annual Meeting of the Southeastern Division of the Association of American Geographers, Knoxville, Tennessee.
- 2009 “Fluvial Processes and Small Southeastern Watersheds II.” Special Session co-organizer (with Allan James and Lisa Davis). Annual Meeting of the Southeastern Division of the Association of American Geographers, Knoxville, Tennessee.
- 2009 “Taylor-Francis/Routledge Distinguished Lecture on Geomorphology and Society.” Session organizer and introducer. Presenter: James C. Knox, *Flood Geomorphology in the Upper Mississippi Valley*. 105th Annual Meeting of the Association of American Geographers, Las Vegas, Nevada.
- 2009 “The Geomorphology Specialty Group After 30 Years: Looking Back, Looking Forward.” Panel session organizer. 105th Annual Meeting of the Association of American Geographers, Las Vegas, Nevada.
- 2008 “Geomorphology Specialty Group Graduate Student Paper Competition I.” Organizer and chair of Honors Session. 104th Annual Meeting of the Association of American Geographers, Boston, Massachusetts.
- 2008 “Geomorphology Specialty Group Graduate Student Paper Competition II.” Organizer and chair of Honors Session. 104th Annual Meeting of the Association of American Geographers, Boston, Massachusetts.

- 2008 “Geomorphology Specialty Group Graduate Student Paper Competition III.” Organizer and chair of Honors Session. 104th Annual Meeting of the Association of American Geographers, Boston, Massachusetts.
- 2004 “Learning to Publish: The Rules, Risks, and Rewards.” Panel discussion sponsored by the *Southeastern Geographer* and the Committee on the Status of Women in Geography, Annual Meeting of the Southeastern Division of the Association of American Geographers, Biloxi, Mississippi.
- 2003 *Southeastern Geographer*: “Looking Back, Looking Forward.” Panel discussion sponsored by the *Southeastern Geographer* in honor of outgoing editor James O. Wheeler, Annual Meeting of the Southeastern Division of the Association of American Geographers, Charlotte, North Carolina.

## EDITORIAL SERVICE

**Co-Editor** (with Allan James and Lisa Davis), special issue in the *Southeastern Geographer* on “Fluvial Processes and Small Southeastern Watersheds”

**Editorial Board member**, *The Southeastern Geographer*, Journal of the Southeastern Division of the Association of American Geographers, 2007-2009.

**Co-Editor** (with Derek Alderman), *The Southeastern Geographer*, Journal of the Southeastern Division of the Association of American Geographers, 2003-2007.

**Associate Editor**, *The Salt and Gila Rivers in Central Arizona: A Geographic Field Guide*, 1988, Department of Geography Publication 3, Arizona State University.

## GRANT PROPOSAL REVIEWER

National Science Foundation  
American Chemical Society  
U.S. Civilian Research and Development Foundation

## MANUSCRIPT REVIEWER

*Annals of the Association of American Geographers*  
*Professional Geographer*  
*Journal of Geophysical Research - Earth Surface*  
*Geophysical Research Letters*  
*Geomorphology*

*Earth Surface Processes and Landforms*  
*Journal of Hydrology*  
*Hydrological Processes*  
*Sedimentology*  
*Catena*  
*Journal of the American Water Resources Association*  
*Journal of Environmental Management*  
*Journal of Geography*  
*Southeastern Geographer*  
*North Carolina Geographer*

#### **EXTERNAL REVIEWS FOR TENURE AND PROMOTION**

2008 Philip van Beynen, University of South Florida

#### **AWARDS AND HONOR SOCIETIES**

2000 College Research Award, College of Arts and Sciences, East Carolina University

1993 Graduate Student Professional Publication Award, University of Wisconsin-Madison, for 'Flow separation and diurnal variations in the hydrology of Conness Glacier, Sierra Nevada, California', (1993), *Journal of Glaciology*, 39(132):216-222.

1986 Regents Graduate Academic Scholarship, Arizona State University

1985 Phi Beta Kappa, University of California, Berkeley

#### **SERVICE, Departmental Service**

2009- Curriculum Committee (member)  
2008-2009 Department Chair Search Committee (member)  
2008-2009 Advisory Committee (member)  
2005- Web Master  
2000- Personnel Committee (member)  
2002- Tenure Committee (member)  
2002- Faculty Senate (alternate)  
2001- Department Safety Representative  
2001- Sediment Analysis Lab Director  
2007-2008 Unit Code Revising/Rewriting Committee  
2001-2006 Social Committee (member)  
2006-2007 Advisory Committee (member)  
2006-2007 Faculty Search Committee (chair)  
1998-2006 Graduate Committee (member)

2002-2003	Faculty Search Committee (member)
2002-2005	Marketing Coordinator
2001-2005	Graduate Coordinator
2001-2005	Graduate Committee (chair)
1998-2001	Social Committee (chair)
1998-99	Equipment Committee (member)
1998-99	Space Committee (member)
1997-98	Faculty Search Committee (chair), University of Southern Mississippi
1996-98	Lab Committee (member), University of Southern Mississippi
1994-98	Undergraduate Coordinator, University of Southern Mississippi
1994-96	Curriculum Committee (member), University of Southern Mississippi
1993-94	Physical Geography Committee (member), Indiana State University
1993-94	Colloquium Committee (member), Indiana State University
1993-94	Physical Geography Laboratory Coordinator, Indiana State University
1987-88	Faculty Search Committee (member), Arizona State University

#### **SERVICE, Master's Thesis Chair**

2006	Erica S. Kotecki, M.A., <i>The Flood of the Century: Extraordinary Hydrometeorological Event or Human-induced Catastrophe?</i> , Department of Geography, East Carolina University
2002	Jingyu Wang, M.A., <i>Suspended Sediment Transport in Agricultural Drainage Ditches on the Coastal Plain of North Carolina</i> , Department of Geography, East Carolina University

#### **SERVICE, Master's Thesis Committee Member**

in progress	L.J. Palmer-Moloney, East Carolina University
in progress	Gwenda Schlomer, Missouri State University
2009	Christy Swan, M.A., <i>Frequency/Magnitude of Aeolian Events</i> , Department of Geography, East Carolina University
2007	Jason Soban, M.S., <i>Stream Channel Response to Urban Land Use in the Inner Coastal Plain of North Carolina</i> , Department of Geological Sciences, East Carolina University
2007	Lindsay Wolter, M.A., <i>Stormwater Runoff Management: A Case Study of Short Term Solutions for Pitt County Planning Department in the Area of Winterville, NC</i> , Department of Geography, East Carolina University
2006	Timothy Tresohlavy, M.A., <i>Stormwater Runoff in North Carolina's Tar-Pamlico River Basin: Analyzing the Potential for Runoff and</i>

- Stakeholder Perceptions of Urban Stormwater Rules*, Department of Geography, East Carolina University
- 2005 Brian Chambers, M.A., *Coastal Urbanization and Tidal Creek Water Quality*, Department of Geography, East Carolina University
- 2004 James Tripp, M.A., *Flood Insurance and Hazard Mitigation: The Role of the Community Rating System*. Department of Geography, East Carolina University
- 2003 Tao Zheng, M.A., *Mapping Flood Extent Using Hydraulic Models and JERS-1 SAR Data on the Tar River Floodplain*. Department of Geography, East Carolina University
- 2003 Brandon Grieve, M.A., *The Influence of Catchment and Bathymetry Characteristics on the Spatial Distribution of Sedimentation in Alpine Lakes*. Department of Geography, East Carolina University
- 2003 Renee Farabaugh, M.S., *History of Terrace Development and Fluvial Sedimentology of the Rio Ramis Valley, Peru: Indicators of Climatic Effects on Fluvial Landscapes*, Department of Geology, East Carolina University
- 2002 Aaryn Jones, M.S., *Subcritical Water Degradation and Extraction of Organochlorine Pollutants from Environmental Solids*, Department of Chemistry, East Carolina University
- 2000 Mark Lange, (M.S.), *Beach and Bar Dynamics on a Low-Energy, Micro-Tidal Coast, Cedar Island, North Carolina*, Department of Geography, East Carolina University
- 2000 Kent Keeter, (M.A.), East Carolina University
- 1997 William Patterson, (M.S.), University of Southern Mississippi
- 1997 Wayne N. Dick, (M.S.), University of Southern Mississippi
- 1996 Robert M. Shelton, (M.S.), University of Southern Mississippi
- 1995 Jeanne C. Allen (M.S.), University of Southern Mississippi
- 1995 David W. Engel, (M.A.), University of Southern Mississippi
- 1995 Muna A. Eltom, (M.S.), University of Southern Mississippi

1994 Patrick Pease (M.A. in Geology), Indiana State University

**SERVICE, Senior Thesis Advisor**

1998 Mary A. Boulton (B.A.), University of Southern Mississippi

**SERVICE, Undergraduate Honors Research Assistant Project**

2005-2006 Orrin Beasley, *Calibration of a Depth-proportional Suspended Sediment Sampler*. Chemistry major, East Carolina University

**SERVICE, College/University Service**

2007 Physical Science Review Panel for the Research Development Award Program, Division of Research and Graduate Studies, East Carolina University

2002- Faculty Senate Representative (alternate)

2002-2007 Administrative Board of the Graduate School, Social Sciences Division (alternate)

2003-2006 Graduate Credits and Retention Committee, Graduate School Administrative Board

2002-2003 Integrative Biological Sciences Doctoral Program Planning Committee

2002 College Research Award Committee, College of Arts and Sciences

1995-98 College Council Representative (member), College of Liberal Arts, University of Southern Mississippi

**SERVICE, Professional Organizations**

2010-2012 Member, National Science Foundation Doctoral Dissertation Improvement Grant Advisory Panel

2008-2009 Chair, Geomorphology Specialty Group, Association of American Geographers

2007-2008 Secretary-Treasurer & Geomorphorum editor, Geomorphology Specialty Group, Association of American Geographers

2007-2008 Awards Committee (chair), Geomorphology Specialty Group, Association of American Geographers

2005-2007 Awards Committee (member), Geomorphology Specialty Group, Association of American Geographers

2006 Search Committee for *Southeastern Geographer* editor (member), SEDAAG

- 2003-2007 Co-editor, *Southeastern Geographer*
- 2003-2007 Steering Committee (member), SEDAAG
- 2002 Audit Committee (member), SEDAAG
- 1999 Program Committee (member), SEDAAG, Annual Meeting, Chapel Hill, NC

### **MASS MEDIA OUTREACH**

Interviewed and research highlighted in magazine article, "Poisonous evidence: North Carolina's Gold Hill District remains a repository for mercury waste from long-abandoned gold mines." *Exploration Discovery*, spring 2007.

Interviewed about sea level rise by Tom Brockman, WNCT-TV Eyewitness News, March 27, 2006.

Interviewed on live radio talk show (91.3FM WZMB) about floodplain development issues on the Tar River, Greenville, NC. Feb. 2005.

Research highlighted in magazine article, "Not in a Thousand Years." *Edge*, East Carolina University Publication, spring 2000, p. 10-11.

Interviewed and research highlighted, "A Notch above the Norm." *The East Carolinian*, spring 1999.

### **PROFESSIONAL ORGANIZATION MEMBERSHIPS**

Association of American Geographers, Geomorphology Specialty Group  
Southeastern Division of the Association of American Geographers  
Geological Society of America, Quaternary Geology and Geomorphology Division  
American Water Resources Association  
Pamlico-Tar River Foundation  
North Carolina Geographical Society

### **COURSES TAUGHT**

#### *East Carolina University*

GEOG 1000: Introduction to Geography  
GEOG 1250: The Water Planet  
GEOG 2200: Weather and Climate  
GEOG 2250: Earth Surface Systems  
GEOG 3220: Soil Properties, Surveys, and Applications

GEOG 4210: Fluvial and Hydrological Processes  
GEOG 5283: Selected Topics in Physical Geography  
GEOG 6200: Seminar in Physical Geography  
GEOG 6210: Advanced Fluvial and Hydrological Processes

Other: Workshop instructor for summer institute on *Monitoring the Environment*,  
Dwight D. Eisenhower Professional Development Program

***University of Southern Mississippi***

GHY 101: World Regional Geography  
GHY 102: Introduction to Geography  
GHY 323: Weather and Climate  
GHY 325: Applied Physical Geography  
GHY 327: Earth Surface Processes and Environments  
GHY 473/573: Water Resources  
GHY 474/574: Watershed Management  
GHY 673: Seminar in Water Resources

***Indiana State University***

GEO 111: Man's Physical Environment

***Indiana University-Purdue University at Indianapolis***

G 107: Physical Systems of the Environment

***University of Wisconsin-Madison***

GHY 120: Global Physical Environments