

Preston Lee Phillips Jr.

Department of Geology and Geography
University of North Carolina at Pembroke
Pembroke, NC 28372-1510
(910) 522.5787
e-mail: p.l.phillips@uncp.edu

Education

- 2004 Ph.D. Geoscience The University of Iowa
Thesis: Paleohydrologic and stratigraphic implications of early diagenetic carbonate cements within marginal marine mid-Cretaceous strata, North American western interior seaway
- 1996 M.S. Geology The University of North Carolina at Wilmington
Thesis: Carbonate petrology and strontium isotope stratigraphy of the Middle Ordovician Chickamauga Supergroup in its type area, Walker County, Georgia
- 1993 B.S. Geology The University of North Carolina at Wilmington
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Professional Experience

- 2009 – Associate Professor, The University of North Carolina at Pembroke
- 2009 – Assistant Director, Southeastern North Carolina Regional Microanalytical and Imaging Center
- 2006 – Associate Director, UNCP Undergraduate Research and Creativity Center
- 2006 – Honors College Faculty, UNC Pembroke
- 2005 – Graduate Faculty, UNC Pembroke
- 2004 – 2009 Assistant Professor, The University of North Carolina at Pembroke
- 2003 – 2004 Instructor, The University of North Carolina at Pembroke
- 1996 – 1997 Adjunct Assistant Professor of Geology, The Western State College of Colorado
- 1995 – 1996 Lecturer, Pamlico Community College, Winter Quarter
- 1995 (Fall) Lecturer, The University of North Carolina at Wilmington
- 1994 – 1995 Instructor, UNCW Division for Public Service, University Children's Academy
- 1993 Geology Intern, USGS-Mineral Resources Division, Reno, NV
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Fellowships/Assistantships

- 2004 American Chemical Society – Petroleum Research Fund Summer Research Fellowship, Pennsylvania State University
- 2002, 2003 Summer Research Assistant, Iowa Geological Survey
- 1999 – 2001 US Department of Education GAANN Fellowship
- 1998 Research Assistant, The University of Iowa
- 1998 Lab Technician, Iowa Geological Survey Bureau
- 1997 – 2003 Teaching Assistant, University of Iowa
- 1994 – 1995 Teaching Assistant, UNC Wilmington
- 1992 – 1993 UNC Wilmington Undergraduate Research Fellowship

Honors/Awards

- 2008 – 2009 Outstanding Teaching Award, UNC Pembroke
2004 NSF-NAGT Workshop - Early Career Geoscience Faculty: Teaching, Research, and Managing your Career, Williamsburg, VA
1999– 2001 US Department of Education GAANN Fellowship
1993 USGS-NAGT Internship
1992 – 1993 University of North Carolina at Wilmington Undergraduate Research Fellowship

Peer-Reviewed Papers

- Ludvigson, G.A., Witzke, B.J., Joeckel, R.M., Ravn, R.L., **Phillips, P.L.**, González, L.A., and Brenner, R.L., 2010, New insights on the sequence stratigraphic architecture of the Dakota Formation in Kansas-Nebraska-Iowa from a decade of sponsored research activity: Kansas Geological Survey, Current Research in Earth Sciences, Bulletin 258, part 2, p. 1-35 (<http://www.kgs.ku.edu/Current/2010/Ludvigson/Bull258part2.pdf>).
- Farley, M.B., **Phillips, P.L.**, and McBroom, R., 2007, Investigating regional hydrogeology of the mid-Atlantic Coastal Plain: Starting Point – Teaching Entry Level Geoscience (<http://serc.carleton.edu/introgeo/icbl/examples/19297.html>).
- Phillips, P.L.**, Ludvigson, G.A., Joeckel, R.M., González, L.A., Brenner, R.L., and Witzke, B.J., 2007, Sequence stratigraphic controls on syndimentary cementation and preservation of dinosaur tracks: Example from the Early Cretaceous (Upper Albian) Dakota Formation, Southeastern Nebraska: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 246, p. 367-389.
- Joeckel, R.M., Ludvigson, G.A., Witzke, B.J., Kvale, E.P., **Phillips, P.L.**, Brenner, R.L., Thomas, S.G., and Howard, L.M., 2005, Palaeogeography and fluvial to estuarine architecture of the Dakota Formation (Cretaceous, Albian), Eastern Nebraska, USA. *In*: Blum, M.D., Marriott, S.B. (Eds.), International Association of Sedimentologists Special Publication 35: Fluvial Sedimentology VII, Blackwell, Oxford, p. 453-480.
- Joeckel, R.M., Cunningham, J., Corner, R.G., Brown, G.W., **Phillips, P.L.**, and Ludvigson, G.A. 2004, Late Albian dinosaur tracks from the cratonic (eastern) margin of the Western Interior Seaway, Nebraska, USA: *Ichnos*, v. 11, p. 275-284.
- Brenner, R.L., Ludvigson, G.A., Witzke, B.J., **Phillips, P.L.**, White, T.S., Ufnar, D.F., González, L.A., Joeckel, R.M., Goettmoeller, A., and Shirk, B.J., 2003, Aggradation of gravels in tidally-influenced fluvial systems, upper Albian (Lower Cretaceous) on the cratonic margin of the North American Western Interior foreland basin: *Cretaceous Research*, v. 24, n. 4, p. 439-448.

In Review/Preparation

- Ludvigson, G.A., González, L.A., Fowle, J.R., Driese, S., **Phillips, P.L.** and others, *in preparation*, Paleoclimatic applications and modern process studies of pedogenic siderite: *In* S.G. Driese and L.C. Nordt (Eds.), *New Frontiers in Paleopedology and Terrestrial Paleoclimatology*: SEPM Special Publication #.
- Phillips, P.L.**, González, L.A., Ludvigson, G.A., Brenner, R.L., and Ufnar, D.F., *in preparation*, Early diagenetic carbonate cements within fluvial deposits delineate nonmarine parasequence boundaries: evaluation of the Boulder Creek Formation, Northeast British Columbia.

Phillips, P.L., González, L.A., Ludvigson, G.A., Brenner, R.L., and Witzke, B.J., *in preparation*, The effects of sea level change and submarine groundwater flow on the precipitation of early diagenetic carbonate cements in coastal deposits.

Fieldtrip Guidebook Contributions

- Joeckel, R.M., Ludvigson, G.A., Witzke, B.J., Kvale, E.P., **Phillips, P.L.**, Brenner, R.L., Thomas, S.G., Howard, L.M., and Summerside, S.E., 2001, Dakota Formation (Cretaceous, Albian) Fluvial to estuarine sediments in the lowermost Platte Valley, Nebraska: Field trip guide for the Seventh International Conference on Fluvial Sedimentology, Lincoln, Nebraska, August 6-10, 2001, Conservation and Survey Division, University of Nebraska-Lincoln, Open-file Report No. 61, 52 p.
- Phillips, P. Lee, Jr.**, and White, Tim S., 1998, Preliminary description and discussion of facies of the Nishnabotna Member of the Dakota Formation, Guthrie County, Iowa, *in* Anderson, R.R. and Bunker, B.J. (eds.), The natural history of Springbrook State Recreational Area, Guthrie County, Iowa: Geological Society of Iowa Guidebook 66, p. 65-69.

Abstracts (* denotes student author)

- Kelly, L.A., **Phillips, P.L.**, and Macko, S.A., 2011, Preliminary assessment of the dietary habits of red imported fire ants (*Solenopsis invicta*) in southeastern North Carolina using stable isotopes: NC Academy of Science, v. 127, pt. __, p. __.
- Bryant, L.M.*, Sanford, A.L.*, and **Phillips, P.L.**, 2011, Characterization of the Orangeburg Scarp Boundary by Mapping Density and Distribution of Carolina Bays in Hoke County, North Carolina: Geological Society of America Abstracts with Programs, v. 43, n. 2, p. 4.
- Cobb, S.*, Wright, E., **Phillips, P.L.**, and Keyworth, A.J., A Ground Penetrating Radar Stratigraphic Investigation near Elizabethtown, NC: Geological Society of America Abstracts with Programs, v. 43, n. 2, p. 4.
- Sanford, A.L.*, Bryant, L.M.*, and **Phillips, P.L.**, 2011, Delineating the Orangeburg Scarp in Scotland County, North Carolina by Mapping the Westernmost Extent of Carolina Bays: Geological Society of America Abstracts with Programs, v. 43, n. 2, p. 4.
- Hagans, A.L.*, Mandjiny, S., Hanmer, D.R., Singletary, S., and **Phillips, P.L.**, 2010, Sorption Characteristics of Imidacloprid on Biochar: Geological Society of America Abstracts with Programs, v. 42, n. 5, p. 87.
- Phillips, P.L.**, Singletary, S.J., McSwiggen, P.L., and Draper, D.S., 2010, Dueling Probes: A comparison of field emission microprobes with older tungsten filament microprobes: Geological Society of America Abstracts with Programs, v. 42, n. 5, p. 84.
- Singletary, S. and Phillips, P.L., 2010, Engaging students in Earth science research: Creating young scientists through microanalysis: Geological Society of America Abstracts with Programs, v. 42, n. 5, p.440.
- Post, S.H.*, **Phillips, P.L.**, and Phillippi, N.E., 2010, Delineation of spatial variances of Carolina Bays within Robeson County, North Carolina: Geological Society of America Abstracts with Programs, v. 42, n. 1, p.70.
- Post, Sidney*, **Phillips, Lee**, and Phillippi, Nathan, 2009, Delineation of Spatial Variances of Carolina Bays within Robeson County, North Carolina: 5th Annual State of North Carolina Undergraduate Research and Creativity Symposium, UNC Wilmington, p.144.
- Schiller, Andrew*, **Phillips, Lee**, and McBroom, Rachel, 2009, Ground Water Quality: Alternative Instructional Strategy: North Carolina Science Teachers Association 40th Annual Professional Development Institute, November 19 & 20, 2009, Greensboro, NC.

- Post, Sidney H.*, **Phillips, P. Lee**, and Phillippi, Nathan E., 2009, Using LiDAR to Survey the Distribution of Carolina Bays in Robeson County, North Carolina: Geological Society of America Abstracts with Programs, Vol. 41, No. 1, p. 44.
- Farley, M.B., **Phillips, P. Lee**, and McBroom, Rachel, 2008, Student Investigations of Spatial Changes in the Mid-Atlantic Coastal Plain Aquifers: Southeastern Division of the American Association of Geographers, Abstracts of Poster Sessions, 63rd Annual Meeting, p.7.
- Phillips, P.L.**, Lightfoot, T., and Peters, D.J., 2008, Efforts of an Emerging Undergraduate Research Center to Promote Interest from Across the Disciplines: CUR National Conference – Frontiers and Challenges in Undergraduate Research, June 2008.
- Farley, M.B., **Phillips, P. Lee**, and McBroom, Rachel, 2008, Investigating Regional Hydrogeology of the Mid-Atlantic Coastal Plain: a Student Exercise: Geological Society of America, Abstracts with Programs, v. 40, n. 4, p. 58.
- McBroom, R.A., Farley, M.B., and **Phillips, P.L.**, 2008, Life of the Aquifer: A Partnership for Engaging Underserved Grades 9-12 Students in Local Geology, National Science Teachers Association (NSTA) National Conference on Science Education, Boston, MA, March 28, 2008.
- Farley, M.B., **Phillips, P.L.**, and McBroom, R.A., 2007, Life of the Aquifer – Improving Earth Science Education for Teachers and Students of Underrepresented Groups on the North Carolina Coastal Plain: Eos Trans. AGU 88(52), Fall Meet. Suppl., Abstract ED51A-0119.
- McBroom, R.A., Farley, M.B., and **Phillips, P.L.**, 2007, Life of the Aquifer: A Partnership for Engaging 9-12 Students in Local Geo: North Carolina Science Teachers Association 2007 Professional Development Institute, November 15 & 16, 2007, Greensboro, NC, p.33.
- Phillips, P.L.**, Ufnar, D.F., Ludvigson, G.A., and Gonzalez, L.A., 2007, Siderite spherules and cements as proxies for paleogroundwater evolution and paleoclimatic changes: A comparison of apples and oranges?: GSA Abstracts with Programs, v. 39, n. 6, p. 302.
- Farley, M.B., and **Phillips, P.L.**, 2006, Making geology visible: building the geosciences at a historically minority university: GSA Abstracts with Programs, v. 38, n. 7, p. 567.
- Phillips, P.L.**, White, T.S., Witzke, B.J., Ludvigson, G.A., Brenner, R.L., González, L.A., and Pope, J.P., 2005, Significance of cone-in-cone structures in marine mudstones: GSA Abstracts with Programs, v. 37, n. 2, p. 37.
- Ludvigson, G., **Phillips, P.**, Joeckel, R., González, L., Brenner, R. and Davis, J., 2004, Tracking the footprints of ancient groundwaters: a sedimentologic view of dinosaurian track beds, Journal of Vertebrate Paleontology, v. 24, n. 3 Suppl., p. 85A – 86A.
- Phillips, P.L.**, Ludvigson, G.A., Joeckel, R.M., González, L.A., Brenner, R.L., and Witzke, B.J., 2003, The role of syndepositional carbonate cementation in the preservation of dinosaur track sites: an example from the Dakota Formation, Sixty-third annual meeting of the Society of Vertebrate Paleontology, Journal of Vertebrate Paleontology, v. 23, n. 3, Suppl., p. 87A.
- Phillips, P.L.**, Ufnar, D.F., González, L.A., Ludvigson, G.A., and Brenner, R.L., 2002, Delineating nonmarine parasequence boundaries using geochemistry of early diagenetic carbonate cements in fluvial deposits: Albian Boulder Creek Formation, NE British Columbia: GSA Abstracts with Programs, v. 34, n. 2, p. A-41.
- Brenner, R.L., Ludvigson, G.A., Witzke, B.J., Joeckel, R.M., **Phillips, P.L.**, González, L.A., and Ufnar, D.F., 2001, Deposition of fluvial gravels in Late Albian Kiowa Marine Cycle fluvial-estuarine setting, Nishnabotna Member, Dakota Formation along the cratonic margin, Cretaceous western interior basin: GSA Abstracts with Programs, v. 33, n. 6, p. A-355.
- Joeckel, R.M., Cunningham, J., **Phillips, P.L.**, Ludvigson, G.A., Witzke, B.J., Corner, R.G., Brown, G.W., 2001, The first report of dinosaur tracks from Nebraska, *Sixty-first annual*

- meeting of the Society of Vertebrate Paleontology*, Journal of Vertebrate Paleontology, v. 21, n. 3, Suppl., p. 66.
- Brenner, R. L., Ludvigson, G. A., Witzke, B. J., **Phillips, P. L.**, White, T. S., Ufnar, D. F., and Joeckel, R. M., 2001, Aggradation of Fluvial Gravels During the Late Albian (Lower Cretaceous) Kiowa-Skull Creek Marine Cycle: Nishnabotna Member, Dakota Formation, Cratonic Margin of the Western Interior Foreland Basin, in Mason, J. A., Diffendal, Jr., R. F., and Joeckel, R. M., editors, *Programs with Abstracts, Seventh International Conference on Fluvial Sedimentology*, Open-File Report 60, Conservation and Survey Division, The University of Nebraska-Lincoln, p. 66.
- Joeckel, R. M., Ludvigson, G. A., Witzke, B. J., **Phillips, P. L.**, Brenner, R. L., and Thomas, S., 2001, Late Albian Fluvial-Estuarine sediments in the Dakota Formation, Ash Grove Quarry and lower-most Platte River valley, Nebraska, USA, in Mason, J. A., Diffendal, Jr., R. F., and Joeckel, R. M., editors, *Programs with Abstracts, Seventh International Conference on Fluvial Sedimentology*, Open-File Report 60, Conservation and Survey Division, The University of Nebraska-Lincoln, p. 145.
- Ludvigson, G. A., Witzke, B. J., Brenner, R. L., González, L. A., **Phillips, P. L.**, Ufnar, D. F., White, T. S., and Joeckel, R. M., 2001, Fluvial-Estuarine Transition along the Cratonic Margin, Cretaceous Western Interior Basin, during the Late Albian Kiowa Marine Cycle, in Mason, J. A., Diffendal, Jr., R. F., and Joeckel, R. M., editors, *Programs with Abstracts, Seventh International Conference on Fluvial Sedimentology*, Open-File Report 60, Conservation and Survey Division, The University of Nebraska-Lincoln, p. 179.
- Phillips, P. L.**, Ufnar, D. F., González, G. A., Brenner, R. L., and Ludvigson, G. A., 2001, Early diagenetic carbonate cements within fluvial deposits delineate nonmarine parasequence boundaries: evaluation of the Boulder Creek Formation, northeast British Columbia, in Mason, J. A., Diffendal, Jr., R. F., and Joeckel, R. M., editors, *Programs with Abstracts, Seventh International Conference on Fluvial Sedimentology*, Open-File Report 60, Conservation and Survey Division, The University of Nebraska-Lincoln, p. 227.
- Ufnar, D. F., González, G. A., Ludvigson, G. A., Brenner, R. L., and **Phillips, P. L.**, 2001, Marine flooding surfaces in amalgamated coastal plain paleosols: The Albian Boulder Creek Formation, NE British Columbia, in Mason, J. A., Diffendal, Jr., R. F., and Joeckel, R. M., editors, *Programs with Abstracts, Seventh International Conference on Fluvial Sedimentology*, Open-File Report 60, Conservation and Survey Division, The University of Nebraska-Lincoln, p. 273.
- Brenner, R.L., Ludvigson, G.A., Witzke, B.J., **Phillips, P.L.**, White, T.S., Ufnar, D.F., and Joeckel, R.M., 2001, Transporting coarse-grained material long distances over low gradients: Cretaceous conglomerates filling incised valleys on the cratonic margin of the Western Interior Foreland Basin, 2001 AAPG Annual Convention, Official Program, v. 10, p. A25.
- Phillips, P.L.**, Gonzalez, L.A., Ludvigson, G.A., White, T.S., Brenner, R.L., and Witzke, B.J., 2000, Latitudinal variations in oxygen isotopic compositions of regionally recharged paleo-aquifers, Cretaceous Western Interior Basin: a transect from Kansas to Alaska: GSA Abstracts with Programs, v. 32, n. 7, p. A-94.
- Ludvigson, G.A., Ufnar, D.F., Gonzalez, L.A., White, T.S., **Phillips, P.L.**, Witzke, B.J., and Brenner, R.L., 2000, When good sphaerosiderites go bad: caveats in the application of a paleoclimate proxy: GSA Abstracts with Programs, v. 32, n. 7, p. A-524.
- Phillips, P.L.**, Ufnar, D.F., Ludvigson, G.A., Gonzalez, L.A., and White, T.S., 2000, Contrasting oxygen isotopic compositions of local vs. regional recharge of paleogroundwater systems of the mid-Cretaceous western interior basin: Scientific meeting of the Canadian Geophysical Union Program and Abstracts.
- Ludvigson, G.A., Witzke, B.J., White, T.S., Ufnar, D.F., **Phillips, P.L.**, Brenner, R.L., Gonzalez, L.A., and Carpenter, S.J., 2000, Fluvial-estuarine deposits of the Late Albian (Cretaceous)

- Kiowa marine cycle, Guthrie Country, Iowa: Abstract presented at The Iowa Academy of Sciences Annual Meeting, Des Moines.
- Ludvigson, Greg A., Witzke, Brian J., White, Tim S., **Phillips, Preston L.**, Gonzalez, Luis A., and Brenner, Robert L., 2000, Tidally-influenced estuarine deposits of the cratonic margin of the Late Albian Kiowa-Skull Creek marine cycle, Cretaceous Western Interior Seaway: GSA Abstracts with Programs, v 32, n 4, p. A-24.
- Phillips, P.L.**, González, L.A., Ludvigson, G.A., Witzke, B.J., and Brenner, R.L., 1999, Calcite-siderite oxygen isotope-based paleotemperature estimates, example from the mid-upper Albian and Middle Turonian deposits along the margin of the Western Interior Basin: GSA Abstracts with Programs, v 31, n 7, p. A-461.
- Phillips, P.L.**, Ludvigson, G.A., González, L.A., and Witzke, B.J., 1999, Calcite-siderite oxygen isotopic paleotemperature estimates from the uppermost Swan River Formation, Late Albian, cratonic margin, Western Interior Basin: GSA Abstracts with Programs, v 31, n 5, p. A-65.
- Phillips, P.L.**, Ludvigson, G.A., González, L.A., Brenner, R.L., and Witzke, B.J., 1998, Contrasting oxygen isotopic compositions of Albian local vs. regional recharge, cratonic margin, Western Interior Basin: GSA Abstracts with Programs, v 30, n 7, p. A-332.
- Ludvigson, G.A., González, L.A., White, T.S., **Phillips, P.L.**, Leckie, D.A., and McCarthy, P.J., 1998, Oxygen isotopic compositions of local vs. regional recharge on Albian coastal plains, proximal foreland basin, western Canada: GSA Abstracts with Programs, v 30, n 7, p. A-316.
- Phillips, P. Lee, Jr.**, Spivack, A.J., Dockal, J.A., Hall, J.C., and Heatherington, A., 1995, Strontium isotope stratigraphy within a biodepositional framework of the Middle Ordovician Chickamauga Supergroup, Walker County, Georgia: GSA Abstracts with Programs, v 27, n 6, p. 175.
- Phillips, P. Lee, Jr.** and Hall, J.C., 1995, Petrologic and biostratigraphic analysis of the Middle Ordovician Chickamauga Supergroup within its type area, northwest Georgia: GSA Abstracts with Programs, v 27, n 2, p. 80.
- Phillips, P. Lee, Jr.** and Hall, Jack C., 1993, Conodont biostratigraphy of the Ordovician-Silurian boundary in the Central Appalachian Valley and Ridge Province: GSA Abstracts with Programs, v 25, n 4, p. 61.
- Phillips, P. Lee, Jr.** and Hall, Jack C., 1992, Conodont biostratigraphy of the Ordovician-Silurian boundary in the Southern Appalachian Valley and Ridge Province: GSA Abstracts with Programs, v 24, n 2, p. 57.

Grants and Scholarships

- 2010 UNC Office of Research and Sponsored Programs: Allocation and Use of Proceeds of Special Indebtedness Issued for Equipment (S.L. 2010-0031, Sec. 30.11)
- Expansion of the Capabilities of the SENCRC-MIC through Acquisition of add-on technology for the existing JEOL JXA 8530F: xCLent III Advanced System B, with co-I, Steven Singletary
 - Amount requested: \$165,000 (pending)
 - Laser Scanning Confocal Microscopy System, with PI, Ben Bahr and co-I's Len Holmes and Bob Poage
 - Amount requested: \$376,447 (pending)

- Ground Penetrating Radar System, with co-I's Martin Farley, Jesse Rouse and Lee Stocks
 - Amount requested: \$34,000 (pending)

- 2010 *NC Space Grant, Carolina Bays: a Paleoclimatic Perspective*
 - Amount Requested: \$24,650 (funded)
- 2009 *NASA-Global Climate Change Education, From Ice Age to Internet Age (IAIA): Strengthening Teaching and Learning About Global Climate Change, co-I with Jennifer Brown (PI) of Robeson Community College.*
 - Amount Requested: \$368,309 (not funded)
- 2009 *NSF-OEDG, Engaging Teachers in Research: Expanding Knowledge and Building Sustainable Earth/Environmental Science Education in Southeastern NC, Co-PI with Steven Singletary (PI) and Phil Sentor of Fayetteville State University and Chris Tacker of NC Museum of Natural Sciences.*
 - Amount Requested: \$15,519 (funded \$17,069)
- 2008 *Army Research Office, Establishment of the Southeastern North Carolina Regional Microanalytical and Imaging Center (SENCR-MIC): A Collaborative effort of Fayetteville State University and the University of North Carolina at Pembroke, Co- PI with Steven Singletary (PI) and Shubo Han of FSU, and Siva Mandjiny of UNCP.*
 - Amount Requested: \$1,419,215 (funded)
- 2007 *NSF-MRI, Acquisition of an Electron Microprobe and Carbon Coater for Fayetteville State University and the University of North Carolina at Pembroke, Co- PI*
 - Amount Requested: \$1,334,270 (not funded)
- 2007 UNCP Faculty Research and Development Grant (\$1,600)
- 2005 UNCP Faculty Research and Development Grant (\$1,900)
- 2005 *NSF-GEO – Opportunity for Enhancing Diversity, The Life of the Aquifer, Co-PI with Martin B. Farley (PI) and Rachel A. McBroom*
Result: project funded (\$98,023)
- 2004 *ACS-PRF Summer Research Fellowship, Penn State (\$8,000)*
- 2000 UISG Research Grant (\$400)
- 2000 UISG Scholarly Presentation Grant (\$250)
- 2000, 2001 UI Department of Geoscience Travel Funds (\$425)
- 1999, 2000 UI Department of Geoscience Littlefield Fund (\$1,000)
- 1999 Geological Society of America Student Research Grant (\$1,591)
- 1999/2000 University of Iowa Office of the Vice President for Research (\$500)
- 1998/1999 University of Iowa Office of the Vice President for Research (\$500)
- 1998, 2000 UI Graduate Student Senate Travel Funds for Scholarly Presentation (\$450)
- 1998 UI Department of Geology Gary Wilkins Fund (\$500)
- 2002/2003 UI Department of Geology Scholarship Award (\$210)
- 1998/1999 UI Department of Geology Scholarship Award (\$750)
- 1997/1998 UI Department of Geology Scholarship Award (\$1,000)

Courses Taught at UNCP

GLY 1000	Physical Geology
GLY 1150	Earth Science
GLYL 1150	Earth Science Laboratory

GLY 2620	Environmental Geology
GLY 3100	Minerals and Rocks
GLY 3110	Minerals and Rocks Laboratory
GLY 3660	Geomorphology
GLYS 4010	Geochemistry
GLYS 4030	Local Groundwater Systems
GLYS 4090/5090	Quaternary Climate Change
GLY 4150	Geology Fieldtrip
GLY 5010	Essentials of Earth Science
GLYS 5010	Geology Fieldtrip
GLYS 5100	Inquiry Based Earth Science
FRS 1000	Freshman Seminar

Invited Lectures/Presentations

15-Oct-2009	Forsyth Gem and Mineral Club, Winston Salem, NC - The density and distribution of Carolina Bays in Robeson County, NC: A new look.
4-Aug-2009	UNCP Library Faculty Development - Carolina Bays
6-Aug-2009	UNCP Library Faculty Development - Lake Waccamaw Fieldtrip
29-Sept-2006	University of Iowa – Department of Geoscience - Choosing a career in academia.
11-Mar-2005	University of North Carolina at Wilmington – Department of Earth Sciences - So you have chosen a career in academia.
23-Apr-2004	University of North Dakota – Dept. of Geology and Geological Engineering - The effects of sea level change and submarine groundwater flow and discharge on the precipitation of early diagenetic carbonate cements in coastal deposits: an example from the Manitoba Escarpment area. - Sequence stratigraphic controls on synsedimentary cementation and preservation of dinosaur tracks: an example from the Early Cretaceous Dakota Formation, Southeastern Nebraska.
June-2003	University of North Carolina at Pembroke - Sequence stratigraphic controls on synsedimentary cementation and preservation of dinosaur tracks: an example from the Early Cretaceous Dakota Formation, Southeastern Nebraska.

Service

Departmental

2009 (Fall)	First Year Evaluation Committee for Jesse Rouse - member
2008 – 2009	GIS Geography Search Committee
2008 (Fall)	First Year Evaluation Committee for - Amy L. Gross – Committee Chair - Ledrew Stocks – Committee Member
2008	Geology Lecturer Search Committee – member
2007 – 2008	Environmental Geology Search Committee – member

2007 (Fall) First Year Evaluation Committee for
 - Nathan Phillippi – Committee Member
 - Erin Poliakon – Committee Chair
 2007 Geology Lecturer Search Committee – Chair
 2007 Environmental Geology Search Committee - member
 2004 – 2005 Degree Assessment Committee
 2004 - Departmental Web Information Coordinator

University

2010 – 2011 Provost Search Committee
 2010 – Research Initiative for Scientific Enhancement – Advisory Council
 2009 – Strategic Planning and Implementation Team
 2009 – 2011 Faculty and Institutional Affairs Committee
 2008 – 2011 Faculty Senate – Natural Sciences and Mathematics Representative
 2007 – 2008 Faculty Senate Executive Committee
 2007 – 2008 Chair, Academic Affairs Committee
 2007 – UNCP NIH Extramural Associates Research and Development Award (EARDA)
 – Advisory Committee
 2007 – FSU-UNCP Microprobe Users Consortium
 1/2006 – Pembroke Undergraduate Research and Creativity Center Advisory Council
 1/2006 – Esther G. Maynor Honors College Council
 2005 – 2009 Academic Affairs Committee
 2005 – 2008 Faculty Senate – at large representative
 2004 (Spring) Physical Environment Committee

Professional

2010 – 2011 Topical Session Advocate (Graduate and Undergraduate Research Posters) for
 the Southeastern Section Meeting of the Geological Society of America,
 Wilmington, NC
 2008 NSF – Review Panel Member
 1/2007 Convener of a Continuing Education Workshop for Well Drillers
 8/2006 Life of the Aquifer: Year 2 Teacher Workshop – Intermediate Geology Resource
 Materials for Robeson County Schools (AUG 7 – AUG 11)
 8/2006 Life of the Aquifer: Year 1 Teacher Workshop – Introductory Geology Resource
 Materials for Robeson County Schools (JLY 31 – AUG 4)
 2006 - University of North Carolina - Undergraduate Research Consortium - member
 2005 – 2008 Teachers and Scientist Collaborating (TASC) – contributing scientists in
 Robeson County, middle grades teachers workshop co-leader 8/2006 and 8/2007
 7/2005 Life of the Aquifer: Year 1 Teacher Workshop – Introductory Geology Resource
 Materials for Robeson County Schools (JLY 25 – JLY 29)
 3/2005 Co-convener of Sedimentary Geology and Paleontology Session at the
 Southeastern Section Meeting of the Geological Society of America, Biloxi, MS
 1/2005 – 8/06 Revolution II – Committee for Advancement of Earth/Environmental Science K-
 12 Education, NC DPI

Elected Positions

2008 – 2011 UNCP Faculty Senate – Natural Sciences and Mathematics
 2005 – 2008 UNCP Faculty Senate – at large seat

1998 – 1999	Graduate Student Representative to the faculty of the UI Department of Geology
1999 – 2000	Vice President, University of Iowa Association of Geology Graduate Students
1998 – 1999	President, University of Iowa Association of Geology Graduate Students
1991 – 1993	Treasurer, UNCW Geology Club
1990 – 1991	Secretary, UNCW Geology Club

Professional Affiliations

Geological Society of America	SEPM (Society for Sedimentary Geology)
National Association of Geoscience Teachers	Council on Undergraduate Research

Student Research Assistants

Sidney Post	Fall 2008 – Spring 2010, Carolina Bays, currently employed by the National Forest Service as a hydrologist
Andy Schiller	Summer – Fall 2009, geoscience education, currently pursuing a MS at Missouri State University
Sabrina Cobb	Fall 2009 – Spring 2011, Coastal Plain Stratigraphy, with Eric Wright, current undergraduate at Coastal Carolina University
Anna Sanford	Fall 2010 -, Carolina Bays, current student
Laurie Bryant	Fall 2010 -, Carolina Bays, current student