

**JACK CHARLES HALL**  
Department of Environmental Studies  
University of North Carolina at Wilmington  
Wilmington, NC 28403

**Education:**

- Grand Valley State University, Allendale, Michigan; Geology; 1973-1977; B.S.
- University of North Carolina, Chapel Hill, North Carolina; Geology; 1977-1981; M.S.
- The Ohio State University, Columbus, Ohio; Geology; 1981-1986; Ph.D.

**Academic Experience:**

- Chair, Department of Environmental Studies-2003-present
- Director of Environmental Studies Program-1995-2003
- Director, Summer Ventures in Science and Mathematics, 1994-1997
- Regional Director, Science Olympiad, 1996-2005
- Associate Research Scientist-Center for Marine Science Research-1987-present
- Professor of Environmental Studies-2004-present
- Associate Professor of Earth Sciences-1993-2004
- Assistant Professor of Earth Sciences-1987-1992
- Lecturer in Earth Sciences-1979-1981; 1984-1987
- Research Diver-NURC-1993-present

**Courses Taught:**

- EVS 195-Introduction to Environmental Studies
- EVS 491-Directed Individual Study in Environmental Studies
- EVS 498-Internship in Environmental Studies
- EVS 591-Directed Individual Study in Environmental Studies
- EVS 592-Special Topics in Environmental Studies
- GGY 130-Physical Geography Laboratory
- GLY 101-Physical Geology
- GLY 102-Historical Geology
- GLY 120-Environmental Geology
- GLY 135-Prehistoric Life
- GLY 150-Introduction to Oceanography
- GLY 200-Methods in Geology
- GLY 331-Stratigraphy Laboratory
- GLY 337-Invertebrate Paleontology
- GLY 450-Marine Geology Laboratory
- GLY 491-Directed Individual Study in Geology
- GLY 495-Senior Seminar in Geology
- GLY 499-Honors work in Geology
- GLY 531-Micropaleontology
- GLY 535-Stratigraphic Paleontology
- GLY 591-Directed Individual Study in Geology
- GLY 599-Thesis in Geology

- SCI 501-Concepts in Natural Science
- SCI 502-Concepts in Natural Science

**Courses Developed/Revised/ New to the University:**

**Courses Developed/New to the University:**

- GLYL 120-Environmental Geology Laboratory
- SCI 501-Concepts in Natural Science
- SCI 502-Concepts in Natural Science
- EVS 592-Special Topics in Environmental Studies

**Courses Revised:**

- EVS 195-Introduction to Environmental Studies
- GLY 101-Physical Geology
- GLY 102-Historical Geology
- GLY 135-Prehistoric Life
- GLY 150-Oceanography
- GLY 200-Methods in Geology
- GLY 531-Micropaleontology
- GLY 535-Stratigraphic Paleontology

**Special Initiatives/Incentives in Teaching:**

- Earth and Environmental Requirements in North Carolina Standard Course of Study Middle School Curriculum, GK-12 Fellow Workshop, National Science Foundation, Science and Math Education Center, UNCW, July, 2005.
- Geological Environments, Mineralogy and Natural Resources of North Carolina, Lectures and Field Experiences Workshop for Teachers, Science and Math Education Center, UNCW, June, 2005.
- Earth and Environmental Requirements in North Carolina Standard Course of Study Middle School Curriculum, GK-12 Fellow Workshop, National Science Foundation, Science and Math Education Center, UNCW, July, 2004.
- Resource Use, Environmental Impact, and Fossils of Phosphate Mining in North Carolina” Experiential Field Experiences, Science and Math Education Center, UNCW, June, 2004.
- Earth and Environmental Requirements in North Carolina Standard Course of Study Seventh Grade Curriculum, GK-12 Fellow Workshop, National Science Foundation, Science and Math Education Center, UNCW, June, 2003.
- Global Climate Patterns and Energy Transfer on the Earth’s Surface, GK-12 Fellows Workshop, National Science Foundation, Science and Math Education Center, UNCW, June 2003.
- Resource Use, Environmental Impact, and Fossils of Phosphate Mining in North Carolina, Experiential Field Experiences, Science and Math Education Center, UNCW, May, 2004.
- STEM (Scientist, Technologists, Engineers, and Mathematicians) Professional for the NC-PIMS Program.

- Chair, EVS Committee to revise EVS 495—Senior Seminar in Environmental Studies.
- Forgotten Monsters of North Carolina’s Past, Summer Ventures Lecture Series, 2003.
- North Carolina: Coastal Plain, Piedmont, and Mountains Experiential Field Experiences, Science and Math Education Center, UNCW, 2003.
- Integrating Research and Education in Paleontology and Marine Ecology: An Inquiry-based Grade 6-8 Curriculum that Investigates Spatial and Temporal Patterns in Naticid Gastropod Predation, Workshop for Middle School Teachers, National Science Foundation, 2002.
- Rocks, Minerals and Plate Tectonics, Science and Math Education Center Professional Development Series for Middle and High School Teachers, 2002.
- Geology and Paleontology of the North Carolina Coastal Plain, lecture and field trip for The Earth and the Environment in North Carolina: An Experimental and Experiential Approach, Eisenhower Professional (Teacher) Development Program, 2001.
- Globe Protocols for Earth and Environmental Science, lectures, laboratory and field studies for The Earth and Environment in North Carolina: An Experimental and Experiential Approach, Eisenhower Professional (Teacher) Development Program, 2001.
- Rocks, Minerals and Geologic History of the North Carolina Piedmont and Blue Ridge, lectures, laboratory and field studies for The Earth and Environment in North Carolina: An Experimental and Experiential Approach, Eisenhower Professional (Teacher) Development Program, 2001.
- The Moonsnail Project, lectures, laboratory, and field exercises for Integrating Research and Educational Outreach in Marine Ecology and Paleontology: Spatial And Temporal Patterns in Naticid Gastropod Predation, National Science Foundation, 2001.
- Cool Stuff in North Carolina: Rocks, Gems and Goodies, Summer Ventures Lecture Series, July, 2001.
- Geology and Paleontology of the North Carolina Coastal Plain, lecture and field trip for The Earth and the Environment in North Carolina: An Experimental and Experiential Approach, Eisenhower Professional (Teacher) Development Program, 2001.
- Rocks, Minerals, and fossil of North Carolina, lecture and field trip for Explorations in Science Summer Camp for Middle and High School Students at Southeastern Community College, Whiteville, NC, supported by the National Science Foundation, 2000.
- Mineral and Gem Collecting in North Carolina, workshop and field trip for teachers in conjunction with UNCW Science and Mathematics Education Center, 1999.
- Mineral and Gem Collecting in North Carolina, workshop and field trip for teachers in conjunction with UNCW Science and Mathematics Education Center, 1998.
- Mineral and Gem Collecting in North Carolina, workshop and field trip for teachers in conjunction with UNCW Science and Mathematics Education Center, 1997.

- Mineral and Gem Collecting in North Carolina, workshop and field trip for teachers in conjunction with UNCW Science and Mathematics Education Center, 1996.
- Training Teacher Leaders in the Geology of North Carolina, workshop and field trips in conjunction with UNCW Science and Mathematics Education Center, 1995.
- The Geology and Paleontology of the North Carolina Coastal Plain, workshop and field trip for teachers in conjunction with UNCW Science and Mathematics Education Center, 1995.
- The Geology and Mineral Resources of the North Carolina Piedmont, workshop and field trip for teachers in conjunction with UNCW Science and Mathematics Education Center, 1995.
- The Geology and Mineral Resources of the North Carolina Blue Ridge, workshop and field trip for teachers in conjunction with UNCW Science and Mathematics Education Center, 1995.
- Nearshore Sedimentology and Oceanography, workshop and field trip in conjunction with NCSU Science and Mathematics Summer Program, 1994.
- Training Teacher Leaders in the Geology of North Carolina, workshop and field trips in conjunction with UNCW Science and Mathematics Education Center, 1994.
- Lead Instructor for Physical Oceanography Course for UNCW Summer Ventures in Science and Mathematics Program, 1993.
- Nearshore Sedimentology and Oceanography, workshop and field trip in conjunction with NCSU Science and Mathematics Summer Program, 1993.
- The Geology and Mineral Resources of North Carolina, workshop and field trips in conjunction with UNCW Science and Mathematics Education Center, 1993.
- Technologies for Geology, workshop in conjunction with the UNCW Instructional Technology Center, 1993.
- Lead Instructor for Physical Oceanography Course for UNCW Summer Ventures in Science and Mathematics Program, 1992.
- Everchanging Coasts, workshop and field trips for the North Carolina Teaching Fellows Program, 1991.
- Life of the Past, workshop and field trips in conjunction UNCW Science and Mathematics Education Center, 1991.
- The Geology and Mineral Resources of the North Carolina Piedmont, workshop and field trip for teachers in conjunction with UNCW Science and Mathematics Education Center, 1991.
- Minerals and Mineral Resources of the North Carolina Blue Ridge, workshop and field trips in conjunction UNCW Science and Mathematics Education Center, 1991.
- Earth Science for Elementary School Teachers, workshop and field trips in conjunction UNCW Science and Mathematics Education Center, 1991.

- Lead Instructor for Physical Oceanography Course for UNCW Summer Ventures in Science and Mathematics Program, 1991.
- Fossils of the North Carolina Coastal Plain, workshop and field trips in conjunction UNCW Science and Mathematics Education Center, 1991.
- Lead Instructor for Physical Oceanography Course for UNCW Summer Ventures in Science and Mathematics Program, 1990.
- Everchanging Coasts, workshop and field trips for the North Carolina Teaching Fellows Program, 1990.
- Minerals and Mineral Resources of the North Carolina Blue Ridge, workshop and field trips in conjunction UNCW Science and Mathematics Education Center, 1990.
- Fossils of the North Carolina Coastal Plain, workshop and field trips in conjunction UNCW Science and Mathematics Education Center, 1990.
- Demonstration in and instruction on the use of the Scanning Electron Microscope, Unit taught for Dr. Richard Dillaman's class on Electron Microscopic Techniques, 1990-1998.
- Theoretical and Practical Scanning Electron Microscopy and Energy Dispersive X-ray Analysis, Unit taught for Dr. Paul Thayer's Methods in Sedimentology Graduate Course, 1990-1998.
- Minerals and Mineral Resources of the North Carolina Blue Ridge, workshop and field trips in conjunction UNCW Science and Mathematics Education Center, 1989.
- Fossils of the North Carolina Coastal Plain, workshop and field trips in conjunction UNCW Science and Mathematics Education Center, 1989.
- Lead Instructor for Physical Oceanography Course for UNCW Summer Ventures in Science and Mathematics Program, 1989.
- Lead Instructor for Physical Oceanography Course for UNCW Summer Ventures in Science and Mathematics Program, 1988.
- Lead Instructor for Physical Oceanography Course for UNCW Summer Ventures in Science and Mathematics Program, 1987.

**Efforts to Improve Teaching:**

- Development of course content materials (lecture and laboratory) for Studying and Teaching about our Natural World-Earth and Environmental Science Teaching and Learning Modules.
- Development and continued curation of a Departmental videotape library including grant funding for start-up.
- Development of Powerpoint presentations for Introduction to Environmental Studies Class.
- Development of hypermedia (Powerpoint) presentations for Historical Geology, Prehistoric Life, Oceanography, and Environmental Geology classes.

- Redesign of Physical and Historical Geology Laboratories.
- Development of Graduate Teaching Assistant Handbook for Physical and Historical Geology.
- Redesign of Methods in Geology (GLY 200) to include more rock description and mapping projects.
- Expansion of slide collections for Physical Geology, Historical Geology, Prehistoric Life, Oceanography, and Invertebrate Paleontology.

### **Grants and Fellowships Related to Teaching:**

- “Professional Master’s Degree Program in Environmental Studies”, Sloan/Ford Foundations. (J.C. Hall with J. Hill, \$29,500). 2006
- Geologic Environments, Mineralogy and Natural Resources of North Carolina, North Carolina Mining Commission (J.C. Hall with W. Kawczynski, \$2,000).
- Science Olympiad Sponsorship, General Electric Elfins, \$500. 2006.
- Geologic Environments, Mineralogy and Natural Resources of North Carolina, North Carolina Mining Commission (J.C. Hall with W. Kawczynski, \$2,264). 2005.
- Science Olympiad Sponsorship, General Electric Elfins, \$500. 2005.
- Science Olympiad Sponsorship, General Electric Elfins, \$500. 2004.
- Science Olympiad Sponsorship, Time-Warner Cable Co., \$500. 2004.
- Science Olympiad Sponsorship, Carolina Power and Light Co., \$500, 2003.
- Science Olympiad Sponsorship, AAI Pharma, \$500, 2003.
- Integrating Research and Education in Paleontology and Marine Ecology: An Inquiry-based Grade 6-8 Curriculum that Investigates Spatial and Temporal Patterns in Naticid Gastropod Predation— Supplemental Request, National Science Foundation (J. C. Hall with P. H. Kelley and T. A. Hansen, \$15,541), 2002.
- The Earth and the Environment in North Carolina: An Experimental and Experiential Approach, Eisenhower Professional Development Program (J. C. Hall with K. S. Shafer, \$29,985), 2002.
- Developing Science Graduate Students into K-12 Science Classroom Resources, National Science Foundation (contributor with W. B. Harris, N. F. Hadley, P. H. Kelley, K. S. Shafer, and C. R. Ward, \$1,032,575), 2002.
- Science Olympiad Sponsorship, \$2,500, Carolina Power and Light Co., 2002
- Science Olympiad Sponsorship, \$500, AAI Pharma, 2002.
- Science Olympiad Sponsorship, \$500, General Electric Elfins, 2002.
- Science Olympiad Sponsorship, \$500, Time-Warner Cable Co., 2002

- Integrating Research and Educational Outreach in Marine Ecology and Paleontology: Spatial and Temporal Patterns in Naticid Gastropod Predation, National Science Foundation (J. C. Hall with P. H. Kelley and T. A. Hansen, \$104,170), 2001.
- Mining, Minerals and Natural Resources of North Carolina”, North Carolina Department of Environment and Natural Resources (J. C. Hall with K. S. Shafer, \$4,274), 2001.
- North Carolina: Coastal Plain, Piedmont, and Mountains Experiential Field Experiences, Eisenhower Program for Science Education, UNC Mathematics and Science Education Network (J. C. Hall with K. S. Shafer, \$14,996), 2001.
- Science Olympiad Sponsorship, \$4,000, Carolina Power and Light Co., 2001.
- Science Olympiad Sponsorship, \$500, AAI Pharma, 2001.
- Science Olympiad Sponsorship, \$500, General Electric Elfins, 2001.
- Science Olympiad Sponsorship, \$500, Time-Warner Cable Co., 2001.
- Earth Science Workshop, \$1,250, North Carolina Mining Commission, 2001.
- Web Based Environmental Science Resource Modules, \$27,000, North Carolina Alliance of Environmental Studies and Science Programs, 2001.
- Integrating Research and Educational Outreach in Marine Ecology and Paleontology: Spatial and Temporal Patterns in Naticid Gastropod Predation, \$20,470, UNCW Center for Marine Science, 2000.
- Regional Geology of North Carolina for Teachers, \$29,000.00, Eisenhower Mathematics and Science Education Improvement Program for Higher Education, 2000.
- Expansion of the EVS Student Resource Center, \$325, Friends of UNCW, 2000.
- Development of the EVS Student Resource Center, \$375, Friends of UNCW, 1999.
- Earth Science Workshop, \$1,250, North Carolina Mining Commission, 1999.
- Continuing Education Grant for Teacher Education, \$1,250.00, North Carolina Mining Commission, 1998.
- Continuing Education Grant for Teacher Education, \$1,500.00, North Carolina Mining Commission, 1997.
- Continuing Education Grant for Teacher Education, \$1,300.00, North Carolina Mining Commission, 1996.
- Educational Opportunities for Academically Gifted Students in Science and Mathematics, \$27,500, Burroughs-Wellcome, 1996-1998.

- Continuing Education Grant for Teacher Education, \$1,200.00, North Carolina Mining Commission, 1995.
- Regional Geology of North Carolina for Teachers, \$33,500.00, Eisenhower Mathematics and Science Education Improvement Program for Higher Education, 1995.
- Continuing Education Grant for Teacher Education, \$1,000.00, North Carolina Mining Commission, 1993.
- Regional Geology of North Carolina for Teachers, \$25,000.00, Eisenhower Mathematics and Science Education Improvement Program for Higher Education, 1991.
- Continuing Education Grant for Teacher Education, \$1,000.00, North Carolina Mining Commission, 1990.
- Development of an Earth Sciences Videotape Library, \$720.00, Friends of UNCW, 1989.

### **Honors, Listings, or Awards Related to Teaching:**

- Cited in Empire Who's Who Among Executives and Professionals in Education
- Cited in 3rd and 4th Editions of Who's Who in American Education.
- Cited in 7<sup>th</sup> Edition of Who's Who Among America's Teachers.
- Student Recognition Award, UNCW Housing and Residence Life, 2006.
- Received the 2004-2005 Senior Volunteer of the Year Award for the North Carolina Aquarium at Fort Fisher, January, 2005.
- Received Commendation as Outstanding Regional Director for North Carolina Science Olympiad, March, 2005.
- "Spotlight on Excellent Educators: Dr. Jack Hall", feature story, Center News, Science and Mathematics Education Center, Vol. 1, no. 1, 2003
- Feature Article "No Energy Crisis in Dr. Jack's World" in College of Arts and Sciences Newsletter, Fall, 2003.
- Received the 2003-2004 Outstanding University Science Educator in North Carolina Award from the North Carolina Science Teachers Association, November, 2003.
- Keynote Speaker for North Carolina Science Teachers Convention, November, 2002.
- Elected to the Order of the Viking, Hoggard High School, 2001.
- Listed by one or more of the 1989 through present UNCW graduating classes (every year, every semester) as a person who had significant impact on their college career.
- Nominated for the 1990 and 1992 UNCW Board of Trustees Teaching Excellence Award.
- Recognized by the Chancellor as an Outstanding Faculty Member at UNCW, 1994.

- Nominated for the 1991-1992 UNCW Panhellenic Council Faculty Member of the Year Award.

**Membership in Professional Societies Primarily Devoted to Teaching:**

- North Carolina Science Leadership Association
- North Carolina Science Teachers Association
- Mid-Atlantic Marine Education Association

**Attendance at Professional Meeting or Sessions Primarily Devoted to Teaching:**

- Attended the Annual Meeting of the Geological Society of America, Salt Lake City, Utah, October, 2005.
- Attended the North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, November, 2005.
- Attended Environmental Education Advisory Council Meeting sponsored by the Office of Environmental Education, North Carolina Department of Environment and Natural Resources, October--December, 2005
- Attended Annual Meeting of the North Carolina Science Leadership Association in Greensboro, North Carolina, November, 2005.
- Attended the North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, November, 2004.
- Attended Environmental Education Advisory Council Meeting sponsored by the Office of Environmental Education, North Carolina Department of Environment and Natural Resources, October--December, 2004.
- Attended Annual Meeting of the North Carolina Science Leadership Association in Greensboro, North Carolina, November, 2004.
- Attended Environmental Education Advisory Council Meeting sponsored by the Office of Environmental Education, North Carolina Department of Environment and Natural Resources, February, 2004.
- Attended and Presented at Geological Society of America Symposium entitled "Geoscience Education: K-12" at the joint Southeastern and Northeastern Annual Meeting of the Geological Society of America, Washington D.C., 2004.
- Attended Workshop, "Educational Funding Opportunities Through NSF" at the joint Southeastern and Northeastern Annual Meeting of the Geological Society of America, Washington D.C., 2004.
- Attended Symposium entitled "Geoscience Education: Undergraduate" at the joint Southeastern and Northeastern Annual Meeting of the Geological Society of America, Washington D.C., 2004.
- Attended the North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, November, 2003.

- Attended and Presented at Geological Society of America Symposium entitled “New Challenges in Paleontological Education” at the joint Southeastern and North-Central Annual Meeting of the Geological Society of America, Lexington, Kentucky, 2002.
- Attended and Hosted One North Carolina Naturally, South Coast Regional Meeting. Sponsored by the N.C. Department of Natural Resources and the UNCW Environmental Studies Program, 2002.
- Attended the North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, 2002.
- New Challenges in Paleontological Education at the joint Southeastern and North-Central Annual Meeting of the Geological Society of America, Lexington, Kentucky, April, 2002.
- Second Annual Workshop of the North Carolina Alliance of Environmental Science and Studies Programs, UNC-CH, September, 2001.
- North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, November, 2001.
- Geology Education II: K-12 and Teacher Education and Geology Education III: Undergraduate and Graduate at the Annual Meeting of the Geological Society of America, Reno, Nevada, November, 2000.
- Geological Education at the Annual Meeting of the Southeastern Section of the Geological Society of America, Raleigh, North Carolina, April, 2001.
- Geological Education Session at the Annual Meeting of the Southeastern
- Section of the Geological Society of America, Charleston, South Carolina, March, 2000.
- Techniques in the Introductory Physical Geology Classroom and Building Media Presentations into Earth Science Teaching at the Annual Meeting of the Geological Society of America, Denver, Colorado, October, 1999.
- Activities for Enhancing the Quantitative Skills of Earth Science Students, Symposium at 47<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Charleston, West Virginia, 1988.
- Learning from the Fossil Record, Workshop sponsored by the Paleontological Society at the Annual Meeting of the Geological Society of America, Salt Lake City Utah, 1997.
- Engaging the National Science Education Standard, Symposium at the Annual Meeting of the Geological Society of America, Salt Lake City, Utah, 1997.
- K-12 and Introductory Earth Science Education, Symposium at 46<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Auburn, Alabama, 1997.
- Interdisciplinary Strategies for Teaching about the earth as a System, Geoscience Education Division Symposium at the Annual Meeting of the Geological Society of America, Denver, Colorado, 1996.
- Making Connections: Ties between K-12 and University Education, NAGT Symposium at the Annual Meeting of the Geological Society of America, New Orleans, Louisiana, 1995.

- Great Ideas from Great Teachers: Tips for Teaching Introductory Geology, Symposium at 44<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Knoxville, Tennessee, 1995.
- National Trends in Earth Science Education, Session at 43<sup>rd</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Blacksburg, Virginia, 1994
- Stratigraphy and Geologic Education, Session at 42<sup>nd</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Tallahassee, Florida, 1994.
- Earth Science Education, Symposium by NAGT at 41<sup>st</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Winston-Salem, North Carolina, 1992.
- Teaching about the Coastal Environment and Geologic Education, Technical Session at 40<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Baltimore, Maryland, 1991.
- Earth Science Education, Geomorphology, Technical Session at 39<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Tuscaloosa, Alabama, 1990.

#### **Membership in Professional Societies:**

- Alabama Geological Society
- American Geological Institute
- Carolina Geological Society
- Paleontological Research Institute
- Palaeontological Society
- Pander Society
- Phi Kappa Phi
- Sigma Xi
- Society of Economic Paleontologists and Mineralogists
- Licensed Geologist, State of North Carolina #844
- North Carolina Science Teachers Association
- North Carolina Science Leadership Association
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#### **Attendance at Professional Meetings:**

- Attended the Annual Meeting of the Geological Society of America, Philadelphia, Pennsylvania, October, 2006.
- Attended the North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, November, 2006.
- Attended the Annual Meeting of the Geological Society of America, Salt Lake City, Utah, October, 2005.
- Attended the North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, November, 2005.

- Attended Environmental Education Advisory Council Meeting sponsored by the Office of Environmental Education, North Carolina Department of Environment and Natural Resources, October--December, 2005
- Attended Annual Meeting of the North Carolina Science Leadership Association in Greensboro, North Carolina, November, 2005.
- Attended the North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, November, 2004.
- Attended Environmental Education Advisory Council Meeting sponsored by the Office of Environmental Education, North Carolina Department of Environment and Natural Resources, October--December, 2004.
- Attended Annual Meeting of the North Carolina Science Leadership Association in Greensboro, North Carolina, November, 2004.
- Attended Environmental Education Advisory Council Meeting sponsored by the Office of Environmental Education, North Carolina Department of Environment and Natural Resources, February, 2004.
- Attended and Presented at Geological Society of America Symposium entitled “Geoscience Education: K-12” at the joint Southeastern and Northeastern Annual Meeting of the Geological Society of America, Washington D.C., 2004.
- Attended Workshop, “Educational Funding Opportunities Through NSF” at the joint Southeastern and Northeastern Annual Meeting of the Geological Society of America, Washington D.C., 2004.
- Attended Symposium entitled “Geoscience Education: Undergraduate” at the joint Southeastern and Northeastern Annual Meeting of the Geological Society of America, Washington D.C., 2004.
- Attended the North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, November, 2003.
- Attended and Hosted One North Carolina Naturally, South Coast Regional Meeting. Sponsored by the N.C. Department of Natural Resources and the UNCW Environmental Studies Program, 2002.
- Attended the North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, 2002.
- Attended and Presented at Geological Society of America Symposium entitled “New Challenges in Paleontological Education” at the joint Southeastern and North-Central Annual Meeting of the Geological Society of America, Lexington, Kentucky, 2002.
- Attended the North Carolina Science Teachers Association Annual Meeting in Greensboro, North Carolina, 2001.
- Attended the Annual Meeting of the Southeastern Section of the Geological Society of America in Raleigh, North Carolina, 2001.
- Attended “Changing the Environmental Face of North Carolina” presented by the UNCW Division for Public Service and Extended Education, 2000.

- 49<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Charleston, South Carolina, 2000.
- National Annual Meeting of the Geological Society of America, Denver Colorado, 1999.
- 48<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Athens, Georgia, 1999.
- 47<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Charleston, West Virginia, 1998.
- National Annual Meeting of the Geological Society of America, Salt Lake City Utah, 1997.
- 46<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Auburn, Alabama, 1997.
- National Annual Meeting of the Geological Society of America, Denver Colorado, 1997.
- 45<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, 1996.
- National Annual Meeting of the Geological Society of America, New Orleans, Louisiana, 1995.
- 44<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Knoxville, Tennessee, 1995.
- Annual Meeting of the Carolina Geological Society, Raleigh, North Carolina, 1994.
- 43<sup>rd</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Blacksburg, Virginia, 1994.
- 42<sup>nd</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Tallahassee, Florida, 1993.
- 41<sup>st</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Winston-Salem, North Carolina, 1992.
- 26<sup>th</sup> Annual Meeting of the Northeastern and 40<sup>th</sup> Annual Meeting of Southeastern Section of the Geological Society of America, Baltimore, Maryland, 1991.
- 39<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Tuscaloosa, Alabama, 1990.
- 28<sup>th</sup> International Geological Congress, Washington, D.C., 1990.
- 38<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Atlanta, Georgia, 1989.
- Annual Meeting of the Carolina Geological Society, Pilot Mountain, North Carolina, 1989.
- 21<sup>st</sup> Annual Meeting of the North-Central Section of the Geological Society of America, Carbondale, Illinois, 1987.

- 36<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Norfolk, Virginia, 1987.
- 23<sup>rd</sup> Annual Alabama Geological Society, Birmingham, Alabama, 1996.
- 34<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Knoxville, Tennessee, 1985.
- 33<sup>rd</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Birmingham, Alabama, 1984.
- National Annual Meeting of the Geological Society of America, Indianapolis, Indiana, 1993.
- 18<sup>th</sup> Annual Meeting of the Northeastern Section of the Geological Society of America, Ithica, New York, 1983.
- National Annual Meeting of the Geological Society of America, Cincinnati, Ohio, 1992.

### **Supervision of Graduate or Undergraduate Theses or Extensive Projects that Involves Research:**

#### **Undergraduate (Student Publications):**

HALL, M. E. and **HALL, J. C.** 2000. The Relationship between Longshore Current and Sediment Transport along Wrightsville Beach, North Carolina. Geological Society of America, Abstracts with Program, V. 32, no. 7, p. A-437 & A-438.

HALL, M. E. and **HALL, J. C.** 2000. Identification of Potential Offshore Borrow Areas for Renourishment Sediment, Wrightsville Beach, North Carolina. Geological Society of America, Abstract with Program, V. 32, no. 2, p. A-23.

FOWLER, H. E. and **HALL, J. C.** 1997. Coral and Molluscan Faunas of a new Plio-Pleistocene Unit (Waccamaw Equivalent), Wilmington, North Carolina. Presented at the 46<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Auburn, Alabama.

LEE, M. L., **HALL, J. C.**, and DOCKAL, J. A. 1995. The Molluscan Fauna of a possible equivalent to the Yorktown Formation (Pliocene), Southeastern North Carolina. Presented at the 44<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Knoxville, Tennessee.

WARD, C. W., DOCKAL, J. A. and **HALL, J. C.** 1994. Paleontology and epibiont paleoecology of a new Plio-Pleistocene unit, Wilmington, North Carolina. Presented at the 43<sup>rd</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Blacksburg, Virginia.

CHIANESE, G. C., **HALL, J. C.**, and DIECCHIO, R.J. 1994. Ichnofossils and ichnofacies of the Lower Silurian Rose Hill Formation in Virginia and West Virginia. Presented at the 43<sup>rd</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Blacksburg, Virginia.

PHILLIPS, P. L., Jr. and **HALL, J. C.** 1993. Conodont biostratigraphy of the Ordovician-Silurian boundary in the Central Appalachian Valley and Ridge Province. Presented at the 42<sup>nd</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Tallahassee, Florida.

PHILLIPS, P. L., Jr. and HALL, J. C. 1992. Conodont biostratigraphy of the Ordovician-Silurian boundary in the southern Appalachian Valley and Ridge Province. Presented at the 41<sup>st</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Winston-Salem, North Carolina.

KEITH, C. C. and HALL, J. C. 1990. Conodont age determination of the Orthorhyncula Zone in Middle and Upper Ordovician rocks of the Virginia and West Virginia Valley and Ridge. Presented at the 39<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Tuscaloosa, Alabama.

HASSLER, S. E. and HALL, J. C. 1990. Conodonts and conodont biostratigraphy of the Middle Ordovician carbonate to clastic transition in the western Valley and Ridge Province of central Virginia. Presented at the 39<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Tuscaloosa, Alabama.

GILMER, M. H. and HALL, J. C. 1990. Conodont biostratigraphy of the Martinsburg Shale (Middle and Upper Ordovician) of south central Virginia. Presented at the 39<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Tuscaloosa, Alabama.

KEITH, C. C. and HALL, J. C. 1989. Conodont biostratigraphy of the Middle Ordovician carbonate to clastic transition in the Virginia-West Virginia boarder area. Presented at the 38<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Atlanta, Georgia.

HASSLER, S. E. and HALL, J. C. 1989. Variations in crystallite orientation in the lamellae of the Conodontophorida. Presented at the 38<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Atlanta, Georgia.

#### **Honor Theses:**

Predator Prey Relationships in a Middle Eocene Molluscan Fauna from Orangeburg, South Carolina, Patricia Mason, Department of Geography and Geology, 2006, Committee Member.

The relationship between early life history traits and survival in populations of recently settled southern flounder, *Parilichthyes lethostigma*.” Andy Ostrowski, Department of Environmental Studies and Biology and Marine Biology, 2006, Committee Member.

Employing the Neutral Red Dye Retention Assay as a Biomarker for Lysosomal Response Due to Exposure of Tributyltin Chloride, Jill Foster, 2003-2004, Committee Member.

Studies of Retention Times of Water in Coastal Estuaries, Dennis Dohrman, Committee Member.

Substrate Characteristics and Preference of the Juvenile Blue Crab, *Callinectes sapidus*, Sarah Scott, Committee Member.

Evaluation of the Chemical Properties of Tidal Creek Outflow in New Hanover County, North Carolina”, Jill Harlow, 2002-2003, Committee Member.

Salinity Tolerance of the Dinoflagellate *Gyrodinium costricta* and its Effect On Harmful Algal Blooms, Leigh Ann Zimmermann, 2002-2003, Committee Member.

## **Graduate:**

“Web Development of Earth and Environmental Teaching Modules.” Erin Vinson, Watson School of Education, MAT Student, 2006, Advisor.

WOODCOCK, T., SMITH, M. S., and HALL, J. C. 2000. Will the Real *Taenaster* Please Stand Up, Ophiuroids from Swatara Gap, Ordovician Martinsburg Formation, Pennsylvania. Geological Society of America, Abstracts with Program, V. 32, no. 2, p. A-84.

PHILLIPS, P. L., Jr., SPIVACK, A. J., DOCKAL, J. A., and HALL, J. C. 1995. Strontium isotopic stratigraphy within a biodepositional framework of the Middle Ordovician Chickamauga Supergroup, Walker County, Georgia. Presented at the National Annual Meeting of the Geological Society of America, New Orleans, Louisiana, 1995.

PHILLIPS, P. L., Jr. and HALL, J. C. 1995. Petrologic and Biostratigraphic analysis of the Middle Ordovician Chickamauga Type Area, Northwestern Georgia. Presented at the 44<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Knoxville, Tennessee.

KEITH, C. C. and HALL, J. C. 1993. Conodont age determination of the uppermost Marthinsburg (Ordovician) Orthorhynchula and equivalent beds, Valley and Ridge Province, Tennessee to Pennsylvania. Presented at the 42<sup>nd</sup> Annual Meeting of the Southeastern Section of the Geological Society of America, Tallahassee, Florida.

## **Graduate Student Theses (Major Advisor):**

Preston Lee Phillips, Jr. 1996. Carbonate Petrology, Depositional Environments, and Chemostratigraphy (Conodont <sup>87</sup>Sr/<sup>86</sup>Sr Ratios) of the Middle Ordovician Chickamauga Group, Walker and Catoosa Counties, Northwest Georgia.

Carolyn C. Keith 1993. Conodont age determination of the uppermost Martinsburg (Ordovician), Valley and Ridge Province, Tennessee to Pennsylvania.

## **Graduate Student Theses Including Graduate Certificate:**

Kristie M. Gutierrez. MED Portfolio, Watson School of Education, UNCW Committee Member.

Douglas E. Kesling. Treasures fro the Deep: An Undersea Photographic Expedition. Liberal Arts Program, UNCW, Committee Member.

Ryan Legette. Enforcement Data: A Tool for Pollution Control. Department of Environmental Studies, UNCW, Committee Member.

Michael Delaney. Core Exhibit on Environmental Challenges for the 21<sup>st</sup> Century. Department of Environmental Studies, UNCW, Committee Member.

Lyn Buchanan. Similarities and Differences between Environmental NGO's Working To Preserve the Mesoamerican Coast. Department of Environmental Studies, UNCW, Committee Member.

Adam Phillips. New Hanover County “Brownfield” Case Analyses. Department of Environmental Studies, UNCW, Committee Member

Rhea-Anna Price. *Do Crassostrea virginica* (Oysters) Prefer to Set on Granite or Marl? Department of Environmental Studies, UNCW, Committee Member.

Elizabeth Vallery. Shoreline Protection: A Discussion of Responsibility and Requirements. Department of Environmental Studies, UNCW, Committee Member.

M. Tony Crump. A Hydroclimatological Approach to Water Resources of San Salvador Island, Bahamas. Department of Earth Sciences, UNCW, Committee Member.

Heyward Key. Effect of Muricid Gastropod Predation on Escalation in Molluscs through the Neogene. Department of Earth Sciences, UNCW, Committee Member.

Tim Woodcock. Bivalve Predation by Gastropods in the Cenozoic of the North Carolina Coastal Plain. Department of Earth Sciences, UNCW, Committee Member.

Karyn Olschesky. Microflora of Coastal and Riverine Estuaries in Southeastern North Carolina. Department of Earth Sciences, UNCW, Committee Member.

Stacy Waters-Baily. Urban Growth Boundaries and Urban Sprawl: Do They Really Work? Department of Environmental Studies.

Michele Richardson. Water Quality Remediation Plan and the Clean Marina Act, Carolina Beach, North Carolina. Department of Environmental Studies.

Allen Serkin. Sustainable Growth Management Strategies for Southeastern North Carolina. Department of Environmental Studies.

**Special Initiatives in On-Campus Scholarly or Professional Development:**

- Red Cross CPR and First Aid Certifications from UNCW, 1990-present.
- Volunteer Diver, North Carolina Aquarium at Fort Fisher, 2001-present.
- Divemaster Certification, CMS and NURC, UNCW, June, 2002-present.
- AAUS Scientific Dive Certification, 1994-present
- DAN Oxygen Emergency Training, 1994-present.
- Advanced Emergency Oxygen Training (for research diver certification at NURC), 1996.
- Nitrox Mixed Gas Certification from NURC, 1993.
- Training sessions with representatives of International Scientific Instruments, Inc. on use and care of the Scanning Electron Microscope, 1985.

**Continuing Education, Workshops, Symposia, or Other Specialized Training:**

- Subsurface Geological Techniques Short Course by Oryx Energy Company, 1992.

### **Professional Consultancies Resulting in Professional Development:**

- Conodont Color Alteration Index as a guide to Petroleum Potential in the Eastern Overthrust Belts, Arco Exploration Co., 1987.
- Conodont Color Alteration Index for source rocks in southern Virginia, Chevron Oil Co., 1985

### **University Committee Memberships, Leadership Positions, or Administrative Duties:**

- Member, Campus Recreation Assistant Director Search Committee, 2006.
- Member, University High School Planning Committee. 2005-06.
- Member, North Carolina Advisory Committee for the North Carolina Aquarium at Fort Fisher, Appointment by Secretary of NCDENR, 2005-2008.
- Co-host for UNCW Leadership Lecture Series, Robert F. Kennedy, Jr., 2003
- Co-host for “One North Carolina Naturally” with N.C. Depart. Of Nat. Res., 2003
- Director--Region 3-North Carolina Science Olympiad, 1998-present.
- Member, Financial Aid Committee, 1991-94, 95-present.
- Chair, Financial Aid Committee, 1996-1999.
- Research Diver, UNCW Summer Ventures Program, 1994-2000.
- Director, Environmental Studies Program, 1995-2003.
- Chair, Department of Environmental Studies, 2003-present.
- Cape Fear Community College Environmental Studies Advisory Council, 1996-present.
- Teacher Education Council, 1996-present.
- Campus Recreation Advisory Committee, 1996-present.
- Chair, Campus Recreation Advisory Committee, 1999-2001.
- Students as Scientists Advisory Board, Glaxo-Wellcome, 1996-present.
- Student Study Abroad Travel Grant Committee, 1997-present.
- Member, Chancellor's Energy Conservation Committee, 1998-2002.
- UNCW Representative at Cape Fear Museum's "Spring Science Celebration", 1999-present.
- Member, Division of Student Affairs Advisory Committee, 1996-1998.

- Event Leader, ROCAME Jamboree, 2000-present.
- Member, Chancellor's Advisory Committee for the Development of UNCW Environmental Center, 1998-2000.
- Member, Southern Coastal Heritage Program Advisory Committee, 1999-2001.
- Student Study Abroad Travel Grant Committee, 1997-1999.
- Students as Scientists Advisory Board, Glaxo-Wellcome, 1996-present.
- UNCW ad hoc committee on Recycling, 1996-1997.
- Teacher Education Council, 1996-present.
- Member, Master's of Arts in Teaching-Science Education Degree Program Committee, 1994-1998.
- Chair, Financial Aid Committee, 1992-1994.
- Consortial and Contractual Relationships Subcommittee for UNCW self-study, 1990-1992.
- Faculty Senate Representative, 1988-1991.
- Radiation Safety Committee, 1985-1989; 1991-1994, 2000-present.

**College Committee Memberships, Leadership Positions, or Administrative Duties:**

- Member, Science Chairs Subcommittee.
- Member, Master in Public Administration Advisory Committee.
- Member, Master in Marine Policy Advisory Committee.
- Ex-Officio, Ev-Henwood Property Planning Committee.
- Presenter, CAS Annual College Day. 2004-present.
- Member, J. Marshall Crews Scholarship in Science and Mathematics Committee, 2005-present.
- Chair, J. Marshall Crews Scholarship in Science and Mathematics Committee, 2001-2005.
- Chair, Glaxo Women in Science Scholarship Committee, 2001-present.
- Member, Center for Marine Science Internal Advisory Committee 1998-present.
- Member, Science, Humanities and Society Steering Committee, 1998-present.
- Member, Master in Public Administration Advisory Committee, 2000-present.
- Member, Campus Fulbright Screening Committee, 1999-present.

- Environmental Physic Search Committee, 1996-97.
- Teacher Education Council, 1996-present.
- Student Study Abroad Travel Grant Committee, 1996-present.
- Students as Scientists Advisory Board (sponsored by Glaxo-Wellcome), 1996-present.
- Science Education Master's Degree Program Committee, 1992-1994.
- Advisory Committee for Environmental Studies Program, 1988-1991.

**Department Committee Memberships, Leadership Positions, or Administrative Duties:**

**Environmental Studies:**

- Chair, Department of Environmental Studies, 2003-present.
- Chair, EVS Faculty Search Committee.
- Department of Earth Sciences Graduate Faculty, 2003-present.
- Senator, Department of Environmental Studies, 2003-present.
- EVS Graduate Certificate Steering Committee, 2002-present.
- Department of Environmental Studies Senior Faculty, 2003-present.
- EVS Curriculum Committee, 1995-present.
- Member, SACS Self-Study Committee (Environmental Studies and Earth Sciences), 2002.

**Earth Sciences:**

- Chair, Post Tenure Review Committee, 2000-2002.
- Chair, Geology Curriculum Committee, 1999-2001.
- Member, Post-Tenure Review Committee, 1999 .
- Member, Annual Awards Banquet Committee 1999.
- Chair, Environmental Geographic Information Systems Specialist Search Committee, 1998.
- Chair, Geology Curriculum Committee, 1993-1995, 1998-2002.
- Geology Graduate Program Review Steering Committee, 1993-2003.
- Chair, Environmental Marine Geology Search Committee, 1993-1994.

- Department of Earth Sciences Annual Faculty Evaluation Committee, 1992-1997.
- Department of Earth Sciences Senior Faculty, 1992-2003.
- Faculty Representative, UNCW Parent's Weekend, 1991.
- Faculty Advisor, Geology Club, 1990-1992.
- Geology Graduate Faculty Review Committee, 1990-1992.
- Editor/author, Physical Geology Laboratory Manual Subcommittee, 1989-1991.
- Faculty Advisor, I.S.I.S. Club (Interdepartmental Students in Science) associated with the National Science Teachers Association, 1988-1990.
- Departmental Representative, Science/Math/Computer Fair Workshop sponsored by SMEC, 1988
- Department of Earth Sciences Graduate Faculty, 1987-2003.
- Coordinator, Geology Graduate Teaching Assistants, 1987-1991.
- Departmental Representative, UNCW Student Visitation Day, 1987.
- Geology Graduate Program Advisory Committee, 1987-present.
- Departmental Representative, UNCW Student Orientation, 1986-1987.
- Faculty Representative, UNCW Annual Student Club Day, 1986-1987.
- Director, Scanning Electron Microscope Laboratory, 1985-2000.
- Chair, S.E.M. Advisory Committee, 1985-2000.
- Physical Geology/Historical Geology Coordination Committee, 1984-1986.
- Geology Curriculum Committee, 1984-2003.
- Geology Graduate Steering Committee, 1984-1987.

**Service to the University:**

**Student Counseling:**

- Faculty Advisor, I.S.I.S. Club (Interdepartmental Students in Science) associated with the National Science Teachers Association, 1988-1990.
- Faculty Advisor, Geology Club, 1990-1992.

**Other Service to the University:**

- Chief Science Consultant and Editor for Ecology Communications.
- Author, Carolina Academic Press.
- Weekly Dive Show at the North Carolina Aquarium at Fort Fisher.
- Volunteer for the North Carolina Science Teacher's Association Rock and Mineral Exhibit, November, 2004.
- UNCW Representative at Cape Fear Museum's "Spring Science Celebration", 2000-present.
- Discussion Leader, Wilmington Rotary Youth Leadership Conference held at UNCW, 2002.
- Event Leader, ROCAME Jamboree, 2000--present.
- Cape Fear Community College Environmental Studies Advisory Board, 1996—present.
- Director, UNCW Summer Ventures in Science and Mathematics Program, 1994-1997.
- State Selection Committee for Summer Ventures in Science and Mathematics, 1992-1997.
- Assistant Academic Director, UNCW Summer Ventures in Science and Mathematics Program, 1992-1993.
- Coordinator, Earth Sciences Series Workshops in conjunction with UNCW SMEC, 1988-1989.

**Service to Professional or Scholarly Organizations:****Leadership in Professional or Learned Societies:**

- Member, North Carolina Advisory Committee for the North Carolina Aquarium at Fort Fisher, Appointment by Secretary of NCDENR, 2005-2008.
- Secretary-Treasurer, Southeastern Section of Society of Economic Paleontologists and Mineralogists (SEPM), 1999-present.
- Chair of the Southeastern Section of the Paleontological Society, 1996-1997.
- National Council of the Paleontological Society, 1996-1998.
- Editor, Journal of Paleontology, 1994-present.
- Editor, Journal of Geoscience Education, 200-present.

**Leadership in Seminars or Short Courses:**

- Co-Convener of symposium on Paleozoic Puzzles: Problems in Stratigraphy and Biostratigraphy at the Annual Meeting of the Southeastern Section of the Geological Society of America, 1999.

- Co-convenor of symposium on Sequence Stratigraphy and Biostratigraphy in the Appalachian Basin at the Annual Meeting of The Southeastern Section of the Geological Society of America, 1998.
- Co-leader of the Paleontological Society field trip at the Annual Meeting of the Southeastern Section of the Geological Society of America, 1998.
- Chair, Paleozoic Stratigraphy Session at the Annual Meeting of the Southeastern Section of the Geological Society of America, 1992.
- Field Trip Leader, “Sedimentology, Geomorphology, and Environmental Geology of a Barrier Island” for UNC-Charlotte Department of Geology, 1991.
- Chair, Paleontology Session at the Annual Meeting of the Southeastern Section of the Geological Society of America, 1989.
- Co-leader of 23<sup>rd</sup> Annual Geological Society of Alabama Field Trip, 1985.

**Professionally Related Activities:**

- Textbook Editor, Worth Publishers, Inc., 1984-present.
- Textbook Editor, John Wiley & Sons, Inc., 1987-present.
- Textbook Editor, Ward Educational Publishing Co., Inc., 1988-present.
- Textbook Editor, W.C. Brown Publishing Co., Inc., 1992-present.
- Textbook Editor, Wadsworth Publishing Co., Inc., 1993-present.
- Textbook Editor, Prentice-Hall Publishing Co., Inc, 1994-present.
- Textbook Editor, Simon and Schuster Publishing Co., Inc., 1996-present.
- Textbook Editor, Saunders College Publishing Co., Inc., 1996-present.
- Editor, Dushkin/McGraw-Hill Publishing Co., Inc., 1996-present.
- Textbook Editor, McGraw-Hill Publishing Co., Inc., 1997-present.
- Textbook Editor, International Thomson Publishing, Inc., 1998-present.
- Member, North Carolina Advisory Committee for the North Carolina Aquarium at Fort Fisher, Appointment by Secretary of NCDENR, 2005-2008.
- Campus Representative, Pander Society, 1984-present.
- Abstract Reviewer, Paleontological Society, 1985-present.
- Abstract Reviewer, Geological Society of America, 1986-present.

- Grant Reviewer, UNC Mathematics and Science Education Network, Eisenhower Mathematics and Science Education Improvement Program for Higher Education, 1989-present.
- Grant Reviewer, American Chemical Society—Petroleum Research Fund, 1990-1995.
- Grant Reviewer, National Science Foundation, Geology and Paleontology Program, 1990-present.
- Grant Reviewer, Natural Environmental Research Council, 1999-present.
- Grant Reviewer, American Chemical Society, 2002-present
- Editor for Journal of Paleontology
- Editor for Journal of Geoscience Education
- Chief Science Consultant and Editor for Ecology Communications.
- Author, Carolina Academic Press.
- Weekly Dive Show at the North Carolina Aquarium at Fort Fisher.

**Other Professional Service:**

- Seminar “Conodonts I have known and Loved” to UNCW Earth Sciences Department, 1986.
- Presented lectures and led field trips on “North Carolina’s Everchanging Coasts” for the North Carolina Teaching Fellows Program and UNCW SMEC, 1989-1991.

**Community Service:**

- Lecture, “Coastal Environmental Problems in New Hanover County, North Carolina” for Mrs. Southgate’s Advanced Oceanography Class, Hoggard High School, March 2006.
- Course Reviewer for Honors Environmental Studies in New Hanover County, May, 2006.
- Course Reviewer for Honors Oceanography I and II in New Hanover County, May, 2006.
- Lecture, “Rock ‘N Roll in North Carolina: Very Cool Rocks and Minerals For Fun And Profit” for UNCW-CAS College Day, November, 2005.
- Lecture, “Mineral Resources from North Carolina”, Wilmington Senior Men’s Club, June, 2005.
- Lecture, “Our Geological Past: Forgotten North Carolina Monsters” (invited presentation) for the Museum of Coastal Carolina, Ocean Isle Beach, N.C., November, 2005.
- Lecture, “What do Environmental Scientists do anyway?” for the annual career day at North Topsail Elementary School, Fourth and Fifth Grade Classes, June, 2005.
- Senior Project Judge, Hoggard High School, June 2005.
- Senior Project Mentor for Mike Miller, Laney High School, Fall, 2005.

- Senior Project Mentor for Ben Foster, Hoggard High School, Fall, 2005.
- Lecture, “Thars Gold in Them Thar Hills or Geology and Mineral Resources of North Carolina” (invited presentation) for the Bald Head Island Conservancy, February, 2005.
- Lecture, “What do Environmental Scientists do anyway?” for the third annual career day at Warsaw Elementary School, Fourth Grade Classes, February, 2005.
- Interview on “New Hanover County Schools Presents: The Forum”, February, 2005.
- Lecture, “Lost Monster from North Carolina’s Past” for UNCW-CAS College Day, November, 2004.
- Lecture, “Cool Rocks and Minerals from North Carolina”, for Mr. Sullivan’s fourth grade class at Cape Fear School of Discovery, October, 2004.
- Lecture, “Our Geological Past: Forgotten North Carolina Monsters” (invited presentation) or the Museum of Coastal Carolina, Ocean Isle Beach, N.C., November, 2004.
- Lecture, “Geology and Mineral Resources of North Carolina” for Dr. Noland’s Honors 210 class, November, 2004.
- Member, Education Advisory Board for the Wilmington Children’s Museum, 2004-present
- Lecture, “Careers in Marine and Environmental Science” for the Marine and Aquatic Career Day at the North Carolina Aquarium at Fort Fisher, January, 2004.
- Lecture, “Fossils and Paleoenvironments of North Carolina” (invited presentation) for the Bald Head Island Conservancy, February, 2004.
- Lecture, “Lost Monsters from North Carolina’s Past” for Family Programming Week at the North Carolina Aquarium at Fort Fisher, March, 2004.
- Lecture, “Rocks, Minerals, and Crystals”, for Mrs. Johnson’s and Mrs. Hopkins’ first grade classes at Cape Fear School of Discovery, March, 2004.
- Interview on “New Hanover County Schools Presents: The Forum”, February, 2004.
- Lecture, “Lost Monster from North Carolina’s Past” for UNCW-CAS College Day, November, 2003.
- Lecture, “Fossils from the North Carolina Coastal Plain”, for Mr. Smith’s fourth grade class at Cape Fear School of Discovery, November, 2003.
- Lecture, “Fossil Wonders of the North Carolina Coastal Plain”, Invited Lecture at the North Carolina Aquarium at Fort Fisher, 2003.
- Lecture, “Fossil Monsters of North Carolina” for Mrs. McEachern’s and Mrs. Jensen’s fourth grade classes at Holly Tree Elementary School, 2003.
- Interview on “New Hanover County Schools Presents: The Forum”, 2003.

- Lecture, “Fossils of North Carolina’s Coastal Plain for Mrs. Carter’s and Mrs. Johnson’s first grade classes at Cape Fear School of Discovery, 2003.
- Mentor, New Hanover County Advanced Studies Program.
- Member, Hoggard High School PTA, 1997-present.
- Member, Parents for Academically Gifted Education (P.A.G.E.).
- Consulted with students from Noble, Roland-Grise, Hoggard, New Hanover, Jacksonville, Laney, Myrtle Grove and Trask Schools on a variety of Paleontologic, Oceanographic, and Marine Geology science projects.
- Coach, Hoggard High School Science Olympiad Team, 1996-present.
- Coach, Myrtle Grove Middle School Science Olympiad Team, 2002.
- Director, Region 3-North Carolina Science Olympiad, 1998-present.
- Member, State Board of Directors for Science Olympiad, 1998-present.
- Judge, North Carolina Regional Science Fair, 2003.
- Lectures “Rocks and Minerals of North Carolina”, for ALL ninth grade Earth and Environmental Science classes at Hoggard High School, 2002—400 students in series of 4 lectures.
- Lecture, “Rocks, Minerals, and Crystals”, for Mrs. Carter’s and Mrs. Johnson’s first grade classes at Cape Fear School of Discovery, 2002.
- Lecture, “Geology of North Carolina”, for Mr. Bryan’s fourth grade class at Cape Fear School of Discovery Elementary School, 2002.
- Judge, North Carolina Regional Science Fair, March 2002.
- Assisted WEBELOS Pack of M. Abernathy with requirements for geology badge, 2002.
- Member, Myrtle Grove Middle School PTA, 2001-2002.
- Consulted with students from Noble, Roland-Grise, Hoggard, New Hanover, Laney, Myrtle Grove and Trask Schools on a variety of Paleontologic, Oceanographic, and Marine Geology science projects.
- Coach, Myrtle Grove Middle School Science Olympiad Team, 2001-2002.
- Lectures “Rocks and Minerals of North Carolina”, for ALL ninth grade Earth and Environmental Science classes at Hoggard High School, September 2001—200 students in series of 5 lectures.
- Lecture, “Mineral Resources of North Carolina”, for Mrs. Wright’s seventh and eighth grade advanced science classes at Topsail Middle School, 2001.

- Lectures “Rocks and Minerals of North Carolina”, for ninth grade Earth and Environmental Science classes of Mrs. Bierstadt and Mrs. Willis at Hoggard High School, 2001.
- Judge, Roland-Grise Middle School Science Fair, 2001.
- Judge, New Hanover County Science Fair, 2001.
- Judge, North Carolina Regional Science Fair, 2001.
- Judge, North Carolina Student Academy of Science District VI Regional Competition, 2001.
- Assisted WEBELOS Pack of S. Lindgren with requirements for geology badge, 2000.
- Coach, Roland-Grise Middle School Science Olympiad Team, 2000-2001.
- Lectures “Rocks and Minerals of North Carolina”, for ALL ninth grade Earth and Environmental Science classes at Hoggard High School, 2000—200 students in series of 5 lectures.
- Lecture, “Mineral Resources of North Carolina”, for Mrs. Wright’s seventh and eighth grade advanced science classes at Topsail Middle School, 2000.
- Lecture, “Fossils of North Carolina”, for Mrs. Aycock’s second grade class at College Park Elementary School, 2000.
- Lecture, “Fossils of North Carolina”, for Mrs. Way's second grade class at College Park Elementary School, 2000.
- Judge, New Hanover County Science Fair, 2000.
- Judge, North Carolina Student Academy of Science District VI Regional Competition, 2000.
- “Hands-On Earth Science Activities”, Spring Science Celebration, Cape Fear Museum, 2000.
- Lecture, “Cool fossils of the North Carolina Coastal Plain” for St. Mary’s School Science Expo, February, 1999.
- Lecture, “Mineral Resources of North Carolina”, for Mrs. Wright’s seventh and eighth grade advanced science classes at Topsail Middle School, November, 1999.
- Member, Roland Grise Middle School PTA, 1999-2000.
- Director, Region 2-North Carolina Science Olympiad, 1998-present.
- Member, State Board of Directors for Science Olympiad, 1998-present.
- Member, Parents for Academically Gifted Education (P.A.G.E.).
- Judge for North Carolina Student Academy of Sciences District Competition, 1998.

- Lecture on “Cool fossils of North Carolina” to fourth grade class of Mrs. Aycock, College Park Elementary School, 1998.
- Lecture on “Mineral resources of North Carolina” for Boy Scout Troop 226, 1998.
- Lecture on “Dinosaurs and other monsters from the past” for second grade classes of Mrs. Ready and Mrs. Weaver, Winter Park Elementary School, 1998.
- Lecture on “Herman the fossil whale and his friends” for second, third and fifth grade classes at College Park Elementary School, 1998.
- Consulted with students from Noble, Roland-Grise, Hoggard, New Hanover, Laney and Trask Schools on a variety of Paleontologic, Oceanographic, and Marine Geology science projects.
- Judge for North Carolina Student Academy of Sciences District Competition, 1997.
- Consulted with students from Roland-Grise Middle School and Hoggard High School on a variety of Paleontology, Oceanography, and Marine Geology research projects, 1997.
- Member, Holly Tree Elementary PTA, 1997-present.
- Mentor, New Hanover County Advanced Studies Program.
- Member, Hoggard High School PTA, 1997-present.
- Lecture on “Fun with Dinosaurs” to third grade class of Mrs. Brobst, Winter Park Elementary School, 1997.
- Lecture on “Careers in science and environmental studies” for junior/senior advanced science classes for Hoggard High School Career Day, 1997.
- Lecture on “What do we use minerals for?” for fourth grade lass of Mrs. Stewart, Winter Park Elementary School, 1997.
- Lecture on “Rocks, minerals, and fossils” for third grade class of Mrs. Aycock, College Park Elementary School, 1997.
- Lecture on “Herman the whale and his friends” to second grade class of Mrs. McCathern, Winter Park Elementary School, 1997.
- Lecture on “Herman the fossil whale and his friends” to all fourth grade classes at Gregory Elementary School, 1996.
- Lecture on “Fossils of the North Carolina Coastal Plain” for second and third grade classes of Mrs. Smith and Mrs. Simpkins, Wrightsville Beach Elementary School, 1996.
- Lecture on “Fun with Dinosaurs” to third grade class of Mrs. Jackson, Winter Park Elementary School, 1996.
- Lecture on “Careers in geology and environmental science” for junior/senior advanced science classes at Hoggard High School Career Day, 1996.

- Lecture on “What does a geologist do?” to fourth grade class of Mrs. Stewart, Winter Park Elementary School, 1996.
- Lecture on “What do we use mineral for?” to second grade class of Mrs. McCathern, Winter Park Elementary School, 1996.
- Lecture on “Beyond Jurassic Park” as invited talk for New Hanover County Museum, 1996.
- Coach, Hoggard High School Science Olympiad Team, 1996-present.
- Chair, New Hanover County Advisory Council for Academically Gifted Students, 1996-1997.
- Consulted with students from Roland-Grise Middle School and Hoggard High School on a variety of Paleontology, Oceanography, and Marine Geology research projects, 1996-1997.
- Coach for Hoggard High School Science Olympiad Team, 1996-present.
- Consulted with students from Noble, Trask, and Roland-Grise middle schools on a variety of Paleontology, Oceanography, and Marine Geology science projects, 1995.
- Event Leader in Earth Sciences for North Carolina Science Olympiad, 1995.
- Lecture on “Paleontology and paleoecology” for sixth grade science class of Ms. Winters, Roland-Grise Middle School, 1995.
- Lecture on “Landforms of fire, ice, and wind” for all second grade classes at Alderman Elementary School, 1995.
- Lecture on “Fossils of the North Carolina Coastal Plain” for third grade class of Mrs. Aycock, College Park Elementary School, 1995.
- Lecture on “Vertebrate Paleontology of North Carolina” for advanced science class of Ms. Rudd, Hoggard High School, 1995.
- Field Trip Leader for “Environmental geology of New Hanover County shorelines” for sixth grade science classes of Roland-Grise Middle School, 1995.
- Lecture on “Erosion along New Hanover County shorelines” for Oceanography classes at Hoggard, Topsail, and Pender High Schools (distance class), 1995.
- Consulted with students from Noble and Trask Middle Schools on a variety of Oceanography and Marine Geology science projects, 1994.
- Event Leader in Earth Science for North Carolina Science Olympiad, 1994.
- New Hanover County Advisory Council for Academically Gifted Students, 1994-98.
- Advisor for Roland-Grise Middle School Science Olympiad Team, 1994-1995.
- Lecture on “Dinosaurs are neat” to Kindergarten classes of Mrs. Johnson and Mrs. Shuford, Winter Park Elementary School, 1994.

- Lecture on “What stories rocks tell you” to fifth grade classes of Mrs. Lancaster and Miss Yarborough, Winter Park Elementary School, 1994.
- Field Trip Leader for “Fossils of the Eocene Castle Hayne Formation” for Boy Scout Pack 255, 1994.
- Field Trip Leader for “The geology of Masonboro Island” for Ocean Adventures, Inc., 1994.
- Lecture on “Herman the whale and other sea monsters” to Kindergarten classes of Mrs. Johnson and Mrs. Shuford, Winter Park Elementary School, 1994.
- Lecture on “Fossils of the North Carolina Coastal Plain” to fifth grade classes of Mrs. Lancaster and Miss Yarborough, Winter Park Elementary School, 1994.
- Lecture on “Fun with fossils” to all second grade classes at Williston Elementary School, 1994.
- Consulted with students from Noble and Trask Middle Schools on a variety of Oceanography and Marine Geology science projects, 1993.
- Lecture on “What is a Paleontologist?” to Kindergarten classes of Mrs. Turner and Mrs. Sampson, Tot Spot School, 1993.
- Lecture on “The stories that fossils tell you” to fourth grade class of Mrs. Maready, Blair Elementary School, 1993.
- Lecture/field trip leader on “Environmental Geology of southeastern North Carolina” to Boy Scout Pack 215, 1993.
- Lecture/field trip leader on “Economic resources of the North Carolina Coastal Plain” to Boy Scout Pack 215, 1993.
- Field Trip Leader for “Fossils of the Martin-Marietta Quarry, New Hanover County, N.C.” for seventh grade Physical Science classes at Trask Middle School, 1993.
- Advisor for Trask middle School Science Olympiad Team, 1993-1994.
- Treasurer for Boy Scout Troop 215, Wilmington, N.C., 1993-1994.
- Assistant Den Leader for Webelos Boy Scout Troop 215, Wilmington, N.C., 1993-1994.
- Lecture/laboratory on “How to identify fossils” to third and fourth grade AG classes of Mrs. Knight and Mrs. Smith, Sunset Park Elementary School, 1992.
- Lecture on “The stories that fossils tell you” to fourth grade AG class of Mrs. Knight, Johnson Elementary School, 1992.
- Interviewed by WWQQ Radio on environmental problems around Wilmington, N.C., 1992.
- Lectures on “Shoreline erosion and man” to junior/senior Earth Science and Oceanography Students of Ms. Atkinson and Ms. Smith, Hoggard High School, 1992.

- Field Trip Leader for “Geology of the North Carolina Coastal Plain” for junior/senior science classes, Camp Lejune High School, 1992.
- Lecture on “Herman the fossil whale and his friends” to first grade classes of Mrs. Lloyd and Mrs. Floyd, Southport Elementary School, 1992.
- Lecture on “Hurricanes and their effects on coastal North Carolina” to Trask Middle School Science Club, 1992.
- Lecture on “Fossils of the North Carolina Coastal Plain” to seventh and eighth grade science classes of Ms. Samuals, Burgaw Middle School, 1992.
- Workshop on “Fossils of the North Carolina Coastal Plain” for the Piedmont Environmental Center, 1991.
- Workshop on “Geomorphology and Environmental Geology of a Barrier Island” for the Piedmont Environmental Center, 1991.
- Lecture on “What does a Geologist do?” for Career Day at Winter Park Elementary School, 1991.
- Field Trip Leader on “Fossil Collecting around Wilmington, N.C.” for Boy Scout Troop 215, 1991.
- Lecture on “The stories that fossils tell you” for Science Week at Alderman Elementary School, 1991.
- Field Trip Leader on “Common fossils of the North Carolina Coastal Plain” for seventh grade Physical Science Class of Mr. Simmons, South Brunswick Middle School, 1991.
- Leader of Fourth Annual Science Fair at Winter Park Elementary School, 1991.
- Lecture on “Creatures for the deep and the past” to second grade classes of Mrs. Hansen and Mrs. Batten, Winter Park Elementary School, 1991.
- Lecture on “What does a scientist do?” to sixth grade classes of Ms. Noble and Ms. Samuals, Burgaw Middle School, 1991.
- Lecture on “Dinosaurs and other prehistoric monsters” to first grade class of Mrs. Caldwell, Pine Valley Elementary School, 1991.
- Lecture on “Fossils of the North Carolina Coastal Plain” to third grade class of Mrs. Aycock, College Park Elementary School, 1991.
- Consulted with students from Dobson High School on a variety of Oceanography and Marine Geology research projects, 1991-1992.
- Lecture on “Planets and our Solar System” to first grade class of Mrs. Johnson, Winter Park Elementary School, 1990.
- Lecture on “Economic Geology” to Trask Middle School Science Club, 1990.

- Lecture on “Fossils and Dinosaurs” to first grade class of Mrs. Johnson, Winter Park Elementary School, 1990.
- Lecture on “Hurricanes and their effects” to eighth grade science and math classes of Mr. Simmons and Mrs. Smith, South Brunswick Middle School, 1990.
- Lecture on “Rocks and Fossils” for Girl Scout Troop 848 of Dorothy Johnson for completion of requirements for Geology merit badge, 1990.
- Consulted with students from Kinston High School on a variety of Marine Geology research projects, 1990.
- Lecture on “Topographic Maps and Aerial Photographs” to seventh grade classes of Mr. Barker, Trask Middle School, 1989.
- Field Trip Leader to North Carolina Marine Resources Center for kindergarten classes of Miss Halterman and Mrs. Wutkowski, Winter Park Elementary School, 1989.
- Lecture on “Careers in Geology” to students at Winter Park Elementary School Annual Career Day, 1989.
- Interview by WWAY-TV on “The Great San Francisco Earthquake of 1989”.
- Lecture on “Fossils and Geologic Time” to Advanced Studies fourth and fifth grade classes of Mrs. Knight, J.C. Roe Elementary School, 1989.
- Lecture on “Dinosaurs” to kindergarten and first grade classes of Mrs. Freeman, J.C. Roe Elementary School, 1989.
- Judge, New Hanover County Science/Math Computer Fair, 1989-present.
- Mentor, New Hanover County Advanced Studies Program, 1989-present.
- Board Member, Friends of New Hanover County Public Library, 1989-1992.
- Co-organizer of Citizens for a Southside Library, 1988-89
- Long Range Planning Committee, Wesley Memorial United Methodist Church, 1988-89.
- Member, Winter Park PTA, 1988-1997.
- Member, P.A.G.E.-Parents for Academically Gifted Education, 1988-present.
- Assistant Coach, Winter Park Optimists Baseball League, 1988-1990.
- Lecture on “Topographic Maps and Aerial Photographs” to seventh grade classes of Mr. Barker, Trask Middle School, 1988.
- Lecture on “Careers in Geology” to Advanced Studies third grade class of Mrs. Knight, Winter Park Elementary School, 1988.

- Lecture/laboratory on the “Geology of North Carolina” to seventh grade Physical Science Classes of Mrs. Chafin and Mr. Barker, Trask Middle School, 1987.
- Lecture on “Topographic Maps and Aerial Photographs” to eighth and ninth grade science classes of Mr. Barker, Trask Middle School, 1987.
- Lecture on the “Geology of North Carolina” to sixth grade science class of Mrs. Laing, Ogden School, 1987.
- Lecture on “Careers in Geology” to sixth grade science class of Mrs. Laing, Ogden School, 1987.
- Lecture on “Fossils and Geologic Time” to sixth grade classes of Mrs. Laing and Mrs. Duncan, Ogden School, 1987.
- Consulted with students of New Bern High School Advanced Science Class on a variety of Marine Geology, Paleontology, and Oceanographic projects, 1985-86.