

CURRICULUM VITA

FRANK R. HALL, Ph.D.

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BACKGROUND

EDUCATION

- **Ph.D.** Geological Oceanography University of Rhode Island, 1991
Dissertation: The Rock-Magnetic Signature of High-Latitude Northern Hemispheric Deep-Sea Sediments and Their Relationships to Quaternary Glacial Cycling
- **M.S.** Geology, Lehigh University, 1983
Thesis: A Study of the Effects of Consolidation (Compaction) on the Remanent Magnetism of Argillaceous Sediments
- **B. A.** Earth Science/Geology: Collateral major in Oceanography, Kean University of New Jersey, 1978
Senior Thesis: Trace-Metal Geochemistry of Sediments from Pile's Creek Tidal Marsh (New Jersey)

EXPERIENCE

PROFESSIONAL EXPERIENCE

- **2020, LLC (2007-Present)**
Contractor with the National Oceanic and Atmospheric Administration
My duties include: Support the Office of Policy Planning and Evaluation for NOAA Office of Oceanic and Atmospheric Research. Specifically, I am working to establish and implement performance measures with OAR. These include both GPRA and non-GPRA measures, related to outcomes of NOAA research. Specifically, to date, my duties have included:
 - *Prepare the FY 2008 Annual Operating Plan for NOAA OAR*
 - *Prepare the quarterly PAR information for OAR*
 - *Organize the PPE staff retreat*
 - *Developed a framework for establishing performance measures within OAR*
 - *Member on the Committee for Monitoring Research*
 - *Member of the OAR PART Working Group*
- **National Research Council/National Academy of Sciences Program Officer (2006-2007)**
As a Responsible Staff Officer the Ocean Studies Board of the National Academies of Science, I managed and assisted on a portfolio of research studies supported by external funds. The projects on which I have worked include:
 - *Options to Ensure the Climate Record from N-POESS and GOES-R Spacecraft: A Space studies Board Workshop, 2007*
 - *Review of the Draft JSOST Ocean Research Priorities Plan (ORPP)*

- *National Research Council/U.S. Representative to the International Scientific Committee on Oceanic Research (SCOR)*
- *Mitigating Shore Erosion Along Sheltered Coasts*
- *International Capacity Building for the Protection and Sustainable Use of Oceans and Coasts*
- *Development of OSB website that focuses on capacity building*
- *Initiation of the Division of Earth and Life Sciences Minority Scientist Database*

In addition, I was responsible for writing project proposals for the Ocean Studies Board for multiple federal agencies that include:

- *Ocean Acidification and Its Impact on Oceanic Health*
- *Coastal Impacts: Replacing the Saffir-Simpson Scale*
- *A Review of the Advance Plan for NASA's Ocean Biology and Biogeochemistry Program*
- *Programs in which I oversaw or participated include:*
- *Mitigating Shore Erosion Along Sheltered Coasts*
- *Review of the Draft JSOST Ocean Research Priorities Plan (ORPP)*
- *International Capacity Building for the Protection and Sustainable Use of Oceans and Coasts*
- *Development of the Division of Earth and Life Sciences Minority Scientist Database*
- *National Research Council/U.S. Representative to the International Scientific Committee on Oceanic Research*

- **George Mason University, Visiting Professor (2005)**

In the aftermath of Hurricane Katrina, I worked with colleagues at George Mason University. In addition to meeting my continued responsibilities with the University of New Orleans, I:

- *Assisted in the preparation of a science-education research grant proposal*
- *Participated in a field trip to an area for environmental monitoring by George Mason*
- *Gave an invited presentation*

- **University of New Orleans (1998-2006)**

Associate Professor (2003-2006)

Assistant Professor (1998-2003)

Faculty member in the Department of Geology and Geophysics (recently changed to Earth and Environmental Science). My responsibilities included:

- *Advising and mentoring both science and non-science undergraduate and graduate students*
- *Conducting research in my scientific subject area, including the development of undergraduate research experiences,*
- *Develop collaborations between the Colleges of Science and Education in the preparation of preservice and inservice teachers as well as improving teaching methods of college faculty throughout the university*
- *Develop and teach science courses that target preservice and inservice teachers, geoscience majors and non-majors*
- *Represent the University of New Orleans at the State of Louisiana panel on teacher preparation as well as national science educational programs*

- *Direct programs for local K-12 teachers in science, mathematics, and using technology in the classroom*
- *Served on 17 thesis and dissertation committees, 4 as the principal advisor.*

- **National Science Foundation, Division of Elementary Secondary and Informal Education, Program Manager (2004-2005)**

As an IPA employee with the Education and Human Resources Directorate of NSF, I had the responsibilities of:

 - *Managing a portfolio of projects funded through my division,*
 - *Developing solicitations for grant programs,*
 - *Review proposals and make recommendations for funding,*
 - *Manage and access active grant projects,*
 - *Assist project PI's and potential PI's with issues related to grant writing. I was most proud to support three individuals and organizations that had no prior NSF funding during my time as a program manager.*

As a scientist in an education directorate, I became a bridge between the science and education communities and took on the additional tasks of:

 - *Developing and managing a collaborative funding effort between EHR and GEO Directorates to support a research cruise to the 2004 Indian Ocean Tsunami earthquake site. This cruise was filmed by the Discovery Channel and BBC, and broadcast as the documentary entitled "American Tsunami".*
 - *Creating an informal science-education discussion group that included invited representatives from NSF, NOAA, NASA, and USGS.*

- **University of Delaware, Graduate College of Marine Studies, Assistant Professor (1991-1998)**

University of Delaware, Department of Geology, Assistant Professor (Joint Faculty Appointment) (1992-1998).
Faculty member in the College of Marine Science. My responsibilities included:

 - *Advising and mentoring graduate students*
 - *Teaching graduate-level and undergraduate courses*
 - *Conducting research in my scientific subject area*
 - *Serve on thesis and research committees*
 - *Represent the College and the University at public and private functions.*

- **University of Colorado, Institute of Arctic and Alpine Research, National Research Council/Ford Foundation Postdoctoral Fellow (1994-1995)**

My duties included:

 - *Leading research on the Labrador Continental Margin*
 - *Mentoring Graduate Students*
 - *Developing guidelines for research in paleomagnetism and environmental magnetism*

OTHER PROFESSIONAL EXPERIENCE

- USAID Series: “Fishing for a Secure Future”
 - Opportunities for Reforming Fisheries Governance
 - Managing Freshwater Inflows to Estuaries
 - Growing Demand and Local Communities: The Socio-Economics of Capture Fisheries
 - Globalized Trade and the Macroeconomics of Capture Fisheries
 - Creating the Enabling Environment for Effective Fisheries Enforcement
 - Confronting Fishing Overcapacity and Other Long-Overdue Reforms
- Organizing Member, Institute for Inclusion, Washington, DC (2006 – Present: <http://www.instituteforinclusion.org/>)
- Meetings Committee Member, National Society of Black Physicists
 - I organized and chaired the first sessions on Geophysics at the annual NSBP/NSHP joint meeting. This effort resulted in the formal creation of an Earth Systems Science section in NSBP.
- Distinguished Lecturer, National Association of Geoscience Teachers, 2005-Present
 - *University of Northern Colorado*
 - *Towson University*
 - *University of Akron*
- Member, Committee on Education and Human Resources, American Geophysical Union (1999-2004)
- Chair, Subcommittee on Diversity, American Geophysical Union (2001-2004)
- Member, Human Resources Committee, American Geological Institute (1999-2004)
- Member, Committee on Women and Minorities, Geological Society of America (1998-2001)
- Article Reviewer: Various Journals and Societies (1992-present)
- National Science Foundation Review Panelist (1997-2005)
- Proposal Reviewer, National Science Foundation (1991-present)
- Judge, New Castle County Science Fair (1997)
- Host, 10th NE-Paleomagnetists Workshop (1996)

SPECIAL LECTURES and SEMINARS

- National Oceanic and Atmospheric Administration (2008)
- University of Akron (2007)
- George Mason University (2005)
- University of Northern Colorado: Earth Science Week, NAGT Distinguished Lecturer (2005)
- Invited Speaker: Louisiana Department of Education, “Educational Summit I and II” (1998, 1999)
- Keynote Speaker: Greater New Orleans Collaborative (1998)
- University of Rhode Island/Oceanography (1997)
- Uppsala University, Sweden (1996)
- Memorial University of Newfoundland, Canada (1996)
- CHEM 367: Environmental Chemistry (with Dr. C. Trumbore, 1996)
- University of Delaware Geology Department (1996 and 1991)
- CMS Physical Oceanography Seminar Series (1996)
- University of New Orleans (1995)

- University of Colorado (1995 and 1994)
- University of South Carolina (1994)
- ChemVets: DuPont Corporation (1993)
- The Delaware Physics Teachers Association (with Dr. W. Hall: 1992)
- Hobart and William Smith Colleges (1992)
- University of Delaware Research Foundation Luncheon (1992)
- GEOL 106: Historical Geology (with Dr. S. McGeary, 1991)

SCHOLARLY AND CREATIVE PRODUCTIVITY, PUBLICATIONS

(Refereed and Invited Publications)

Book Chapters

- Buxton, C., Hall, F., & Speaker, R. (2003). Striving for relevance: Elementary grade teachers exploring uses of technology to promote science learning. In C. Constantinou (Ed.), *Computer Based Learning in Sciences: Proceedings of the Sixth International Conference On Computer Based Learning in Science*, Nicosia, Cyprus, 50-62.
- *Buxton, C.A., and F.R. Hall, 2002, Situating gender and science education in the context of a Southern urban elementary school, SAGE III, p. 17-25*
- *Hall, F.R.; J.T. Andrews; M. Kerwin; and L.M. Smith, 2001. Studies of sediment colour, whole-core magnetic susceptibility, and sediment magnetism of the Hudson Strait - Labrador Shelf region: CSS Hudson cruises 90023 and 93034. Marine Geology of Hudson Strait and Ungava Bay, Eastern Arctic Canada: Late Quaternary sediments, depositional environments, and late glacial-deglacial history derived from marine and terrestrial studies. Edited by B. Maclean; Geological Survey of Canada, Bulletin 566:161-170*
- *MacLean, B.; J.T. Andrews; J.T. Gray; F.R. Hall; I. Hardy; A.E. Jennings; W.F. Manley; W.T. Pfeffer; and G. Vilks, 2001. Hudson Strait Quaternary sediments and late glacial and deglaciation history: a discussion and summary. Marine geology of Hudson Strait and Ungava Bay, Eastern Arctic Canada: Late Quaternary sediments, depositional environments, and late glacial-deglacial history derived from marine and terrestrial studies. Edited by B. Maclean; Geological Survey of Canada, Bulletin 566:181-191*

Peer-reviewed Articles

- *Hall, F.R. and C. Buxton, 2004, Advancing the REVOLUTION: Using Earth Systems Science to Prepare Elementary School Teachers, Journal of Geoscience Education, v.52, n.4, p. 338-344*
- *Hall, F.R., J.T. Andrews, A. Jennings, G. Vilks, and K. Moran, 1999, Late Quaternary Sediments and Chronology of the NE Labrador Shelf (Karlsefni Trough, Saglek Bank): Links to Glacial History, Geological Society of America Bulletin, 1700-1713*
- *Andrews, J.T., L. Keigwin, F.R. Hall, and A.E. Jennings, 1999, Abrupt deglaciation events and Holocene paleoceanography from high resolution cores, Cartwright Saddle, Labrador Shelf, Canada. Journal of Quaternary Science, 14: 383-397*

- Hall, F.R., S. Cisowski, and J.W. King, 1997, *Hysteresis of Fine-Grained Magnetic Iron-Sulfide Nodules and Crusts: ODP Leg 155 (Amazon Deep-Sea Fan)*, *Proc. ODP, Sci. Results*, Vol. 155
- Hiscott, R., F.R. Hall, and C. Pirmez, 1997, *Turbidity overspill from Amazon Channel: texture of the silt/sand load, paleoflow from anisotropy of magnetic susceptibility, and implications for flow processes*, *Proc. ODP, Sci. Results*, Vol. 155
- Cisowski, S., and F.R. Hall, 1997, *An examination of the paleointensity record and geomagnetic excursions recorded in Leg 155 cores*, *Proc. ODP, Sci. Results*, Vol. 155
- Piper, D.J.W., R. Flood, S. Cisowski, F.R. Hall, M. Maslin, N. Mikkelsen, and W. Showers, 1997, *Synthesis of stratigraphic correlations of the Amazon Fan*, *Proc. ODP, Sci. Results*, Vol. 155
- Andrews, J.T., B. MacLean, M. Kerwin W. Manley, A.E. Jennings and F.R. Hall, 1996, *Final stages in the collapse of the Laurentide Ice Sheet, Hudson Strait, Canada: Based on 14C AMS dates and magnetic susceptibility logs*, *Quaternary Research*, 983-1104
- Hall, F.R., 1996, *A Revised Composite Correlation and Oxygen Isotope Stratigraphy of ODP Site 645 (Baffin Bay) from Whole-core Magnetic Susceptibility Logs*, *Arctic and Alpine Research*, 28(4): 519-523
- Bloemendal, J., J.W. King, F.R. Hall, and S.J. Doh, 1992, *Rock-magnetism of late Neogene and Pleistocene deep-sea sediments: relationship to sediment source, diagenetic processes, and sediment lithology*, *Journal of Geophysical Research*, 97:4361-4375
- Hall, F.R., W.H. Busch, and J.W. King, 1989, *The relationship between variations in rock-magnetic properties and grain size of sediments from ODP Hole 645C*, in, S.P. Srivastava, M.A. Arthur, B. Clement, et al., *Proc. ODP, Sci. Results*, 105:837-842
- Hall, F.R., and J.W. King, 1989, *Rock-magnetic stratigraphy of Site 645 (Baffin Bay) from ODP Leg 105*, in, S.P. Srivastava, M.A. Arthur, B. Clement, et al., *Proc. ODP, Sci. Results*, 105:843-859
- Hall, F.R., J. Bloemendal, J.W. King, M.A. Arthur, and A.E. Aksu, 1989, *Middle to late Quaternary sediment fluxes in the Labrador Sea, ODP Leg 105, Site 646: A synthesis of rock-magnetic, oxygen-isotopic, carbonate, and planktonic foraminiferal data*, in, S. P. Srivastava, M.A. Arthur, B. Clement, et al., *Proc. ODP, Sci. Results*, 105:653-688
- Clement, B.M., F.R. Hall, and R. Garrad, 1989, *The magnetostratigraphy of Ocean Drilling Program Leg 105 sediments*, in, S.P. Srivastava, M.A. Arthur, B. Clement, et al., *Proc. ODP, Sci. Results*, 105:583-598 F.R.
- Hall, and S.J. Reed, 1996, *Rock (Mineral)-Magnetic properties of post-Glacial (16 to 0.5 ka) sediments from the Emerald Basin (Scotian Shelf), Canada*, in, Andrews, J. T., W. E. N. Austin, H. Bergsten, and A.E. Jennings (eds.), *Late Quaternary Paleoceanography of the North Atlantic Margins*, *Geological Society Special Publication No. 111*, 103-115
- Baldauf, J., et al., 1989, *Magnetostratigraphic and biostratigraphic synthesis of Ocean Drilling Program Leg 105: Labrador Sea and Baffin Bay*, in, S.P. Srivastava, M.A. Arthur, B. Clement, et al., *Proc. ODP, Sci. Results*, 105:935-956

- Flood, R.D., D.V. Kent, A.N. Shor, and F.R. Hall, 1985, *The magnetic fabric of surficial deep-sea sediments in the HEBBLE area (Nova Scotian continental rise, Marine Geology, 66:149-168*
- Luther, G.W., A.L. Meyerson, K. Rogers. and F.R. Hall, 1982, *Tidal and seasonal variations of Sulfate ion in a New Jersey Marsh System, Estuaries, 5:189-196*

Book Reviews

- *Ocean and Coastal Management (1997), (Geology of the United States Seafloor: The View from GLORIA, 1996, Gardner, J.V., Field, M.E., Twichell, D.C. editors, Cambridge University Press, 371p.)*

PARTICIPATION AT PROFESSIONAL MEETINGS

➤ **Meeting Abstracts**

- Totten, I.M., F.R. Hall and C. Buxton, 2005, *Constructing Artificial Rock Outcrops as Tools for Fostering Earth and Environmental Science Thinking, EOS Trans. AGU*
- Hall, F.R., R.M. Johnson, and C. Alexander, 2004, *Earth and Space Sciences: The Need for Diversity in Global Science, EOS Trans. AGU*
- Hall, F.R., C. Buxton, and W. Thompson, 2003, *Using Earth Systems Science to Improve the Science and Mathematics Content and Pedagogical skills of preservice Elementary School Teachers, Annual Meeting, Geological Society of America, Abstracts with Programs*
- Hall, F.R., 2003, *Center to Improve diversity in Earth systems Science: A Cooperative Program Uniting the Geoscience Community, Annual Meeting, Geological Society of America, Abstracts with Programs*
- Hall, F.R., W. Thompson, and C. Buxton, 2002, *Using Oceanographic Themes to Improve the Science and Mathematics Content and Pedagogy Skills of Pre-Service Elementary School Teachers, EOS Trans. AGU*
- Hall, F.R. and C. Buxton, 2002, *Using Earth Systems Science Themes to Improve the Science and Mathematics Content and Pedagogy Skills of Pre-Service Elementary School Teachers, EOS Trans. AGU*
- Hall, F.R. and R.M. Johnson, 2001, *Diversity and the Role of the American Geophysical Union, EOS Trans. AGU*
- Walker, A., L. LaFleur, F. R. Hall, and L Serpa, 2001, *Making an Impact: The Importance of Urban Schools in Improving Diversity in Geoscience, EOS Trans. AGU,*
- Hall, F.R., L. Serpa, T. Pavlis, W. Busch, W. Simmons, 2001, *The UNO Geology & Geophysics Minority Recruitment Program: A 30 Year Success Story, EOS Trans. AGU,*
- Hall, F.R. and C. Buxton , 2001, *Combining Method With Content and Content with Method: Collaboration Between Science and Education in Preparing Teachers, EOS Trans. AGU,*

- Anderson, V., and F.R. Hall, 2000, *Reciprocal Science Success, American Association for Higher Education, "Faculty Roles & Rewards"*.
- Hall, F.R., W Craig, L Serpa, W Busch, and N Felton, 1999, *Creating an Earth Systems Science Curriculum for Teachers: Focusing on the Education Crisis in New Orleans, Louisiana, EOS Trans. AGU*
- Hall, F.R., L Serpa, T Pavlis, W Busch, W Simmons, W Craig, and A Walker, 1999, *Minority Recruitment in the Geosciences: the University of New Orleans Success Story, EOS Trans. AGU*
- Hall, F.R., 1999, *Education and the Ocean Drilling Program, Conference for Multi-Platform Exploration: Ocean Drilling Post 2003, Vancouver, BC, p. 169*
- Hall, F.R., J.T. Andrews, A. Jennings, and A. Miller, 1996, *The rock-magnetic signal of the Labrador Shelf and the Scotian Shelf and Rise, Arctic Workshop, Boulder, CO*
- Hall, F.R., R.N. Hiscott, and C. Pirmez, 1996, *Spillover from Amazon Channel, Amazon Deep-Sea Fan: Results from ODP Leg 155, EOS, Trans. AGU*
- Hall, F.R., and S.J. Reed, 1995, *Rock-magnetic properties of post-glacial (16 to 0.5 ka) sediments from the Emerald Basin (Scotian Shelf), Canada, Royal Society of Edinburgh (Scotland), "Paleoceanography of North Atlantic Margins"*
- Hall F.R., S.J. Reed, J.T. Andrews, A. Jennings, B. MacLean, G. Vilks, and A. Miller, 1995, *The rock-magnetic signal of deglaciation: results from the Labrador and Scotian Shelves, International Union of Geodesy and Geomagnetism Meeting, Boulder, Colorado*
- Miller, A., K. Moran, and F.R. Hall, 1995, *Deglaciation of the central Scotian Shelf: foraminifera, physical properties, and acoustic records from the Emerald Basin, International Conference on Paleoceanography V, Halifax, Nova Scotia*
- Hall, F.R., 1993, *A one-million year record of rock-magnetic variations in the Labrador Sea: Paleoenvironmental implications, International Association of Geomagnetism and Aeronomy, Buenos Aires, Argentina*
- Reed, S.J. and F.R. Hall, 1993, *Rock-magnetism and post-glacial sedimentation: preliminary results from the Emerald Basin (Nova Scotia Shelf) , EOS Trans. AGU, 74:*
- Hall, F.R., J.W. King, K. Moran, and P. Mudie, 1992, *preliminary paleomagnetic results and rock-magnetic correlations from the central Arctic Ocean, EOS Trans. AGU, 73:*
- Hall, F.R., J.W. King, S. D'Hondt, and A.E. Aksu, 1991, *The relationships between rock-magnetic parameters, provenance, and glacial cycling of sediments from the Fogo Seamounts, EOS Trans. AGU, 72:*
- Hall, F.R., and J.W. King, 1990, *Rock-magnetism of high-latitude Quaternary sediments: evidence for polar ice formation?, EOS Trans. AGU, 71:*
- Hall, F.R., J.W. King, and A. Helmstetter, 1990, *Rock-magnetic correlations of the CESAR83 (Canadian Expedition to Study the Alpha Ridge) cores (central Arctic Ocean) with revised litho and magneto- stratigraphies, EOS Trans. AGU, 71:*
- Hall, F.R., and J.W. King, 1989, *Rock-magnetic analyses of Upper Quaternary sediments show changes in timing of terrigenous and pelagic deposition at ODP Site 646 (Labrador Sea), International Conference on Paleoceanography III, UK*
- King, J.W., S.J. Doh, F. R. Hall, and J. Bloemendal, 1988, *Paleomagnetic and rock-magnetic studies of giant piston cores: implications for paleoceanography and paleomagnetism, EOS Trans. AGU, 69:*

- *Hall, F.R., and J.W. King, 1987, Rock-magnetic analyses through the Baffin Bay excursion: ODP Hole 645C, EOS Trans. AGU, 68:296*
- *King, J.W., J. Bloemendal, S.J. Doh, and F. R. Hall, 1986, The use of paleomagnetic and rock-magnetic stratigraphy in studies of late Neogene climate (poster), International Conference on Paleoceanography II, Woods Hole Oceanographic Institute*
- *King, J.W., F.R. Hall, S.J. Doh, B. Lamb, and J. Bloemendal, 1985, Paleomagnetic and rock-magnetic stratigraphy of sediment cores from the Gulf of Mexico, EOS, Trans. AGU, 86:*
- *Hall, F.R., and K. Kodama, 1983, The effects of consolidation (compaction) on the remanent magnetism of argillaceous sediments, EOS Trans. AGU, 64:219*

OTHER SCHOLARLY ACTIVITIES

Service in role of discussant, critic, reviewer for professional meeting or publications

- Co-Chair, American Geophysical Union, Fall 2004 Meeting (San Francisco), “Diversity and Equity in the Earth and Space Sciences: Global Perspectives on the Issues and Obstacles Posters”
- Science Fair Judge, Franklin High School, April 2000
- Science Fair Judge, John Curtis High School, December 2000
- Co-Chair, American Geophysical Union, Spring 2001 Meeting (Boston), “Increasing Diversity in the Geosciences”
- Panelist, National Science Foundation Review Panel: Course, Curriculum, and Laboratory Improvement (February, 1999)

Service in role of officer of professional organization, program committee member, session organizer for professional meeting

- Chair, Subcommittee on Diversity, American Geophysical Union
- Committee on Education and Human Resources, American Geophysical Union
- Committee on Women and Minorities, Geological Society of America
- Committee of Human Resources, American Geological Institute
- National Science Foundation, Geoscience Diversity Committee
- New Orleans Geological Society, Education Committee
- NSF/ASLO Minority Student Mentoring Program (1996-present)
- Invited Panelist, National Science Foundation, “Diversity in the Geosciences” (May, 1999)

Professional society membership

- National Society of Black Physicists
- National Association of Black Geologists and Geophysicists
- Institute for Inclusion

AWARDS, LECTURESHIPS, OR PRIZES

HONORS AND AWARDS

- Gotshall Fellow, Lehigh University

- Ford Foundation Postdoctoral Fellow
- Fellow, Institute for Undergraduate Education, University of Delaware
- Fellow, Reciprocal Science Success Program, Towson University
- Inductee, Essex Catholic High School Hall of Fame
- Distinguished Lecturer, National Association of Geoscience Teachers

GRANTS AND CONTRACTS

PI or Co-PI

- Serpa, L., and F.R. Hall (2001-2006)
National Science Foundation
Building on Our Success: A Proposal to Enhance and Improve Minority Student Recruitment and Retention in the Geosciences at the University of New Orleans
Funded at \$839,529
- Buxton, C., F.R. Hall, and I. Totten
National Science Foundation (2001)
Using Artificial Outcrops to Augment Geoscience Education
Funded at \$25,000
- Hall, F.R. and C. Buxton (2000-2002)
National Science Foundation/Geoscience Education
Aligning preservice teachers' science content with the science methods courses
Funded at \$95,000
- Hall, F.R.
University of New Orleans/STPIG (2000-2001)
Preservice Elementary Teachers Equipment
Funded at \$27,000
- Hall, F.R., N. Felton
National Science Foundation/Louisiana Systemic Initiatives Program (2000-2001)
Project CLARAESE
Funded at \$141,000
- Hall, F.R., N. Felton, and D. Easley
National Science Foundation/Louisiana Systemic Initiatives Program (1999-2000)
Project CLARAESE
Funded at \$143,000
- Hall, F.R.
Louisiana Board of Regents (1999)
Classroom Equipment for Science Teachers
Funded at \$47,500
- National Science Foundation (1992-1995)
Magnetic Studies of Latest Pleistocene to Holocene Fine-Grained Sediments: The Nova Scotian Shelf (OCE92-03833)
Funded at \$50,000
- University of Delaware Research Foundation (1992-1993)
Mineral-Magnetic Evidence of Deglaciation in the Maritime Region (LTR910177)
Funded at \$20,000
- National Science Foundation (1993)
Travel Support to IAGA/Argentina
Funded at \$1,000

- Ocean Drilling Program/USSSP (1994)
ODP Leg 155: Amazon Fan (155-20846A&B)
Funded at \$38,834
- National Research Council/Ford Foundation Fellowship, 1994-1995
Deglacial History of the Canadian Arctic Continental Shelf
Funded at \$30,000
- National Research Council/Ford Foundation (1996)
Continued Support
Funded at \$2,500
- University of Delaware/ Institute for Transforming Undergraduate Education (1997)
Development of Problem-Based Learning Curriculum for MAST 200
Funded at \$500

Not PI or Co-PI

- John, S.
National Science Foundation/Postdoctoral Fellowship for Science, Mathematics, Engineering, and Technology Education (2000-2001) (I served as advisor)
Postdoctoral Fellowship for Dr. Suku John
Funded at \$72,000

THESIS/DISSERTATION COMMITTEE SERVICE

<u>Name</u>	<u>Graduation</u>	<u>Degree</u>	<u>Role</u>
David Prentice	2003	MAST	Committee Member
Julie Glaeser	2002	MAST	Advisor
Daniel Scheer	2002	MAST	Advisor
Iris Totten	2003	Ph.D.	Committee Member
Rebecca Murphy		Ed.D.	Committee Member
Kimiko Sunderland	2000	M.Ed.	Committee Member
Julie Glaeser	2000	M.Ed.	Committee Member
Barry Dobos		Ph.D.	Committee Member
Charles Royal	2002	M.Ed.	Committee Member
Stefanie Reed	1994	M.S.	Advisor
Gretchen Schultz	1993	B.S.	Research Supervisor
Rebecca Perkins	1994	B.S.	Committee Member
Jorunn Hardardottir	1995	Ph.D.	Committee Member
Kathy Licht	1995	M.S.	Committee Member
Ann Miller	1997	Ph.D.	Committee Member
Suku John	1997	Ph.D.	Committee Member
Simon Shaw	1997	M.S.	Committee Member
Jennifer Pusey		M.Ed.	Committee Member
Steven Runyan		M.Ed.	Committee Member
Magdalena Anguelova	1997	M.S.	Committee Member

TEACHING EXPERIENCE

University of New Orleans

- GEOL 4096: Appalachian Field Trip for Teachers (Summer 2004)
- GEOL4096: Appalachian Field trip for Teachers (Summer, 2003)
- GEOL4096: Environmental Science for Teachers (1999 - 2001)
- GEOL 1003: Physical Geology lab (2000-present)
- SCI1012, SCI1013, and SCI1014: Physical Science for Elementary School Teachers I, II, and III (1998 - present)
- Environmental Science for Teachers (UNO/LaSIP)

University of Delaware

- MAST 601: Introduction to Oceanography (1992, 1993, 1995, 1996)
- MAST 200: Concepts in Oceanography (1997)
- MAST 853: Seminar in Oceanography (1993)
- MAST 666: Independent Study: North Atlantic Sediments (1996)
- MAST 666: Independent Study: Deep-Sea Sedimentation (1993)
- MAST 666: Independent Study: Environmental Rock Magnetism (1992)

OTHER PROFESSIONAL ACCOMPLISHMENTS

EDUCATIONAL ACTIVITIES

- Instructional Programs
 - New Orleans Public Schools Inservice High School Science Teacher Professional Development
 - LA/New Orleans Public Schools Math-Science Partnership Program (2003-2004)
 - UNO/LaSIP: Project CLARAESE (Inservice Grade 5-12 Teacher Professional Development: 1999-2001)

PROFESSIONAL DEVELOPMENT ACTIVITIES

- Keynote speaker, Ford Foundation Fellows Annual Conference, "Ocean acidification", 2006
- Invited Panelist, Ford Foundation Fellows Annual Conference, "Publishing in Scientific Journals" (2006)
- Invited Panelist, Ford Foundation Fellows Annual Conference, "Funding Resources", "National Science Foundation" (2005)
- Scheduling and Cost Control, ESI International (2005)
- Project Management, ESI International (2004)
- PITTCON: Using Calculator-Based Laboratories in the Classroom (2000)
- Project WETMAAP Workshop: 2000
- Infusing Mathematics into Earth Science Education, Colorado College (1999)
- Workshop Participant, Louisiana Science Teachers Association Annual Conference: "Aligning Authentic Assessment with the LA Science Framework" (1998)
- Faculty Advisor: Pre-Service Teachers in Action (1999-present)
- Preparing for the PRAXIS exam, University of New Orleans, College of Education, September 1999, UNO
- State of Louisiana, Board of Elementary and Secondary Education (BESE), "Examining Alternative Forms of Certification", November 1999, Baton Rouge (with Dr. Doris Williams-Smith, UNO)

- State of Louisiana, Board of Elementary and Secondary Education (BESE), “Preliminary Results of the Blue Ribbon Commission on Teacher Certification”, February 2000, (with various UNO representatives including Chancellor O’Brien)
- Co-Host: Colonel Alphonse Davis, CEO, Orleans Parish School Board (PSTA)
- Co-Host: Ms. Donna Contois, BESE (PSTA)
- Search Committee: College of Education, Curriculum and Instruction, Science Educator
- Judge, Regional Science Olympiad/UNO (1999-present)
- Judge, State Science Olympiad/Loyola University (1999)
- Mentor: National Science Foundation/American Society of Limnology and Oceanography Conference (1996-present)
- Panelist, Ford Foundation Fellows Conference, “The Politics of Tenure” (October, 1998)
- Primary Presenter: “Educational Initiatives in Ocean Drilling”, COMPLEX Meeting (May, 1999; Vancouver, BC)
- Participant in the following programs:
- NSF/ASLO Minority Student Mentoring Program (1996-1997)
- Student Sponsor (Ms. A. Johnson-Pyrtle) to Arctic Workshop (Ottawa, Quebec [Canada]: 1997)
- Future of Minorities in Higher Education Conference, Delaware State University (1997)
- NOAA/NMFS Conferences to Expand Minority Opportunities in Ocean Sciences (1995-1997)
- UD Primary/Secondary Science Teacher Development in Ocean Sciences (with N. Brickhouse and K. Scantlebury: 1993-1997)
- UD Science Education Forums (1991-1997)
- University Minority Students of Excellence (1991)
- Minority Graduate Student Recruitment Program (1991)
- University Minority Preview Day (1992)
- JASON/UD feasibility study (1993)
- Teaching and Professional Development Activities
- Consultation with Dr. Iris Metts, Secretary of Education for the State of Delaware (1997)
- Geographical Information Systems and Applications in Arctic Research: 27th Arctic Workshop, University of Ottawa, Ottawa, Quebec [Canada] (1997)

UD Center for Teaching Effectiveness Workshops (1992-1998)

- Individual Consultations and Classroom Development (1992-1998)
- “Wakonse-East” Faculty Retreat (1997)
 - Focus on team development and management
- “How Students Learn” (1997)
- “Active Learning” (1997)
- “Problem-Based Learning Strategies” (1997)
- “Successful Use of Teaching Portfolios” (1994)
- “Active Learn Strategies” (1993)
- “Are Our Tests Failing Our Students” (1992)
- “Application of Problem-Based Learning in the Arts” (1997)
- “Alternative Grading Methods” (1997)

- Individual Consultations and Classroom Development: Problem-Based Learning (1997)