

CATHRYN R. NEWTON

Curriculum vitae

Personal Information

Address: 110 Life Sciences Complex, 107 College Place
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Education

- 1983 University of California, Santa Cruz, Ph.D., Earth Sciences
(Paleobiogeography of Cordilleran Accreted Terranes; Advisor Léo Laporte)
- 1979 University of North Carolina, Chapel Hill, M.S. Geology
(Paleoecology of Low-Oxygen Devonian Environments; Advisor John M. Dennison)
- 1976 Duke University, B.A., magna cum laude, Geology

Recent Activities

- 2015 Harvard University Institute for Educational Management (IEM):
Intensive, selective leadership program for high-level academic administrators
- 2015 Lake Ontario U.S. National Marine Sanctuary, National Oceanic and Atmospheric
Administration (NOAA) (proposed by five NY counties 2015):

Syracuse University liaison to work with regional officials, NOAA, and with faculty and
administrators from other higher-education institutions on the proposed marine
sanctuary and possible academic center of excellence
- 2015-6 Syracuse University Office of the Provost – Host of Two Visits:

Marcia McNutt, former faculty, UC Santa Cruz Earth Sciences, now Editor-in-Chief of
Science and President-Elect, National Academy of Sciences;

Duke University Marine Laboratory faculty and director of unmanned systems
research center to discuss field-research collaborations in biology, environmental
sciences, earth sciences and other fields

Administrative and Faculty Positions

- 2015- Provost's Faculty Fellow for Philanthropy, Campus Planning, and Academic
Programs
- 2008 - Dean Emerita; Professor of Earth Sciences and of Interdisciplinary Sciences
- 2000 - 2008 Dean, College of Arts and Sciences, Syracuse University

- 1993 - 2000 Jessie Page Heroy Professor and Chair, Department of Earth Sciences,
Syracuse University
- 1993 - Professor of Geology, Syracuse University
- 1992 - 1993 Interim Associate Dean (Curriculum, Programs, and Instruction),
College of Arts and Sciences, Syracuse University
- 1989 - 1993 Associate Professor of Geology, Syracuse University
- 1983 - 1989 Assistant Professor of Geology, Syracuse University

Recent Activities as Provost's Faculty Fellow

- Role involves multiple responsibilities, including both special projects for the Chancellor and enhancing the work of the Office of the Provost in academic philanthropy and campus planning. Also involved in two large projects to support the continued growth of the research mission of the University. My role in academic programs is to interface with these other areas. One aspect of work as Provost's Faculty Fellow involves outreach to deans, vice presidents, faculty, and staff on campus issues. One example was leading focus groups of faculty and academic staff in the Campus Framework/ Campus Plan process—to learn what concerns of faculty and staff are so their views can be reflected in the outcomes.

Other Education and Appointments

- 1976-78 University Fellowship, University of North Carolina, Chapel Hill
- 1977 Exploration Geologist, Shell, New Orleans
- 1978-80 Doctoral Research Assistant, U. S. Geological Survey, Menlo Park, CA
- 1978-82 University Fellow, University of California
- 1972 Wake Forest University, Theatre and Speech Institute (Prof Franklin Shirley, Dir.)

Recognition and Boards

Honored by National Oceanic and Atmospheric Administration: USS Monitor and Subsequent Research, December 29, 2012 (installation of public marker with images of CN)

US Navy and NOAA Recognition Ceremony for USS Monitor Discovery, March 8, 2013

2013 Medalist, New York USS Monitor Museum, Brooklyn, New York, January 13, 2013

American Association for Advancement of Science (AAAS), Plenary Address, August 2009

University Scholar-Teacher of the Year, Syracuse University, 1991

Cathryn R. Newton

Founding Co-Director of Women in Science and Engineering Program, Syracuse University 1997-

Fellow, Geological Society of America

Editor-in-Chief, Palaeogeography, Palaeoecology, Palaeoclimatology (Elsevier), 1992-2000

Outstanding Faculty Advisor of the Year, College of Arts and Sciences, Syracuse 1999

Martin van Couvering Award, American Association of Petroleum Geologists, 1981

Aaron Waters Award, University of California, 1981

Syracuse University Board of Trustees, 1998, Student Affairs Committee, Faculty Rep.

Paleontological Research Institution, Board of Trustees, 1984-1989

Syracuse Stage Board, 2005-2008

Imagining America National Advisory Board, 2005-2008

University, College, and Departmental Contributions

- Chancellor's Workgroup on Diversity and Inclusion 2015-
- Chancellor's Task Force on Sexual and Relationship Violence 2015- ("It's On Us" Week co-organizer responsible for the academic events)
- University Campus Framework/ Campus Master Plan Leadership Team, 2014-
- Chancellor's Cabinet (deans' representative) 2006-2008
- Chancellor's Development Campaign Planning Committee, 2001-2005
- University RCM Budget Committee (budget redesign, implementation) 2005-2008
- AAU: Co-wrote (with Provost Freund and one other) the University's successful membership report 2003-2005
- Academic Plan Core Organizing Committee, 2000-2002
- Athletic Policy Committee, University Senate (budgetary and policy oversight) 2000-2002
- Budget Revision Planning Committee (massive revision of University budget) 2004-2006
- Chancellor Search Committee, 2003-2004
- Dean Searches (various, including as chair), 1993-4, 2000-2008
- Faculty Council, College of Arts and Sciences, chair 1994-96; member 1986-88
- Associate Dean, Curriculum, Programs, and Instruction, College of Arts and Sciences, 1992-93 (led revision of Liberal Arts Core)
- Founding Co-Director, Women in Science and Engineering, Syracuse University, 1996 – 2001
- Chancellor's Commission on Strategic Communications, 2000-2001
- Committee on Diversity and Admissions, 2000-2001
- College Tenure and Promotions Committee, ~1985-87; 1990-91; ex officio 2000-2008

- Vice Chancellor's Committee for Enrollment Planning in the College, 1991-92
- **Connections** (publication of College of Arts and Sciences) Editorial Board, 1989- 1994; Publisher, 2000-2008
- Search Committee, Vice President for Research and Dean of the Graduate School, 1990
- University Honors Program Council, 1986-88
- First-Year Forum, Founding Committee, 1990-91
- Chair, Undergraduate Studies Committee, Geology Department, 1990-91 (proposed and implemented new departmental curricula for B.S., A.B., and Minor in Geology)
- University Senate, 1993-95, 2000-2008, 2010-

Academic Plan and Faculty Experience

- Served on core leadership group in creating, drafting, and revising last academic plan; also currently liaise to several aspects of plan in my Provost's office activities; am also involved in strengthening funding opportunities to expand our research profile.
- Extensive experience with faculty, including tenure and promotions, and with large-scale hiring; as dean, wrote approximately 130 tenure recommendations; earlier, as faculty member, participated on A&S Committee in ~70 cases
- Appointed ~40% of tenured and tenure track faculty in College of Arts and Sciences between 2000-2008; the College maximized this opportunity to move forward swiftly in both academic excellence and diversity
- Led Arts and Sciences transition to unionized adjuncts and other contingent employees; was integrally involved in those issues and decisions
- Held direct responsibility for all tenure cases and recommendations made to our Provost for final action; this includes careful reviews of original appointment letters, annual reviews of untenured faculty, and pre-promotion evaluation of faculty being considered to promotion to full professor
- Interviewed nearly all tenure-track or tenured candidates and actively involved in recruiting prospective faculty and senior academic administrators
- Negotiated scores of date-certain retirements with faculty
- Worked with chairs to investigate and resolve faculty conflicts and performance issues; had direct responsibility for personnel actions; have some successful experiences in reviving research careers that had foundered
- Acquired working knowledge of HIPAA as relates to clinical units in Arts and Sciences
- Worked with a wide range of faculty and departments on ADA-related faculty issues
- Worked with a wide variety of other unionized employees at Syracuse, and was responsible for several units with a combination of union and non-union employees
- Co-founded and co-directed the Syracuse University Women in Science and Engineering Program and have been involved since its founding in 1997; leadership on STEM workforce and diversity
- Wrote planning documents at request of Provost and Chancellor; these documents integrate personnel budgets with facility needs and estimates of research grant trajectories of diverse units in the natural sciences and mathematics
- Worked within faculty governance systems to accomplish significant increase in academic excellence and diversity of programs, in Arts and Sciences and across colleges in large

collaborative projects involving as many as five or six colleges (examples: Life Sciences Planning Group; Mellon Humanities Corridor; Ford Foundation grant; inaugural Humanities Center at SU)

- Sought and obtained philanthropy and foundation funding for academic initiatives; current role as Provost's Faculty Fellow also involves academic philanthropy
- As dean, worked with Provost and chairs to resolve personnel difficulties with faculty and academic staff across the thirty budgetary departments reporting to me
- Conceived the Mellon Humanities Corridor (Syracuse University led, with Cornell and Rochester and, later, other institutions); sought and received concurrence from Chancellor; wrote the proposal (as principal investigator with 41 Humanities co-authors), which was funded immediately for \$1,000,039; project has had total funding of ~\$6,500,000

Budgetary Experience

- Responsible for planning and management of budget of College of Arts and Sciences at Syracuse University, 2000-2008 (\$191 million total budget in FY2008)
- Participated actively as dean on small-group RCM Study Committee (planning committee for Syracuse transition to RCM budget from prior budgetary system): studied budgets of Duke University, University of Pennsylvania, University of Southern California, Cornell University, with detailed budget sheets and iterative presentations from the VPs for finance of these institutions; participated in NACUBO budget-system webinars to analyze different approaches; jointly proposed a RCM model for Syracuse
- Implemented new RCM budgetary system in College of Arts and Sciences, 2004-2006
- Managed departmental budgets of Earth Sciences, including research oversight and management of significant endowed accounts, 1993-2000; managed all A&S interdisciplinary programs and curricula and their budgets as Associate Dean
- Led fiscal planning, philanthropy, and research facilities conceptualization and implementation for the 230,000 sq ft Life Sciences Complex, 2000-2008 (move-in August 2008)
- Oversaw faculty planning for extensive space renovations in the Tolley Humanities Building project (completed 2006; \$9 million); Psychology (2000-2008, 14 faculty); Paul Robeson Performing Arts Company; Community Folk Art Center; Earth Sciences laboratories 1993-2008;
- Responsible for analyzing and funding faculty research space modifications in Arts and Science, with detailed input from Associate Dean for the Natural Sciences and Mathematics
- Responsible for annual salary increases of faculty in Arts and Sciences; worked with collaborative input from chairs; our office set final budgets for salaries for faculty, staff, institutionally funded research staff, graduate assistants
- Involved in detailed discussions of our institution's agreements with external funding agencies and the way these agreements are implemented budgetarily
- Prepared and implemented phases of a total 29% downsizing plan (as departmental chair) as part of a college-wide series of budget reductions in 1990-1994;

- Had responsibility, as associate dean, for budgets of ten interdisciplinary programs ranging from small to very large; supervised directors and their budgetary management, in some cases intervening when a program threatened to exceed its allocated resources

Academic Space and Campus Facilities Experience

- Participated actively on leadership team of the University Campus Framework/ Campus Master Plan Committee and as a regular committee member, 2014-2015 (Steve Einhorn, Board of Trustees, and Lou Marcoccia, CFO, chairs)
- Handled the Life Sciences Complex project (230,000 sq ft, housing BIO, CHE) from conceptualization through construction and move-in, including planning for “turn-around” space for some parts of these operations.
- Held responsibility for developing the multi-disciplinary academic program for this large facility, including detailed analysis of research operations, shared scientific facilities including vivarium and research greenhouses; this involved working with multiple science and engineering departments through issues spanning many divisions of Syracuse University
- Worked closely on proposed buildings and substantial renovations with architects and with Syracuse University design & construction, parking, grounds and facilities, sister colleges; this was a complex task that was both political and budgetary
- Kept Provost and Chancellor closely apprised of fiscal and facilities matters and planning issues; took their input back to project teams
- Had responsibility for all facilities renovations, space rentals, and space constructed for new faculty (200 hires between 2000-2008, following waves of retirements)

Undergraduate Education

- Created the iLearn Undergraduate Research Program and Ruth Meyer Scholars Program to enhance undergraduate research through a sizeable philanthropic commitment; this has fostered undergraduate research for large numbers of undergraduates since ~2001
- Led revision of Liberal Arts Core as Associate Dean
- Led review and wholesale revision of the University Honors Program as dean; wrote proposal for successful naming gift as Renée Crown University Honors Program hosted by Arts and Sciences for the whole University; fostered development of an innovative and now nationally known curriculum that emphasizes attributes and outcomes; received a second seven-figure gift from the Crown family in honor of my leadership on the Honors Program (public statement in media)
- Studied analyses and implemented new programs in College of Arts and Sciences that led to significant increases in undergraduate satisfaction and retention
- Co-proposed, as departmental chair, the joint environmental baccalaureate tracks in Geology and Biology; co-wrote the founding documents
- Studied input from other SU schools and colleges about their student experiences of the revised Liberal Arts Core and commissioned studies that led to changes in what we offered for the Core to other schools and colleges

- Reviewed other research universities, including large divisional reviews, and gave reviewer input about undergraduate education and initiatives there
- Developed a highly innovative co-taught Honors course, “Linked Lenses: Science, Philosophy, and the Pursuit of Knowledge” with Prof Gorovitz of Philosophy; UC Berkeley requested a presentation on this course and then used our course as a curricular model for its new undergraduate curriculum of edgy interdisciplinary and co-taught courses
- Expanded our academic offerings in ways that reflect diversification of knowledge; in my time as dean, we adopted new curricula in many academic programs (LGBT program, grad program in African American Studies; new or expanded centers in Beijing, Santiago, Mysore, and so forth; this list is extremely long)

Selected Paleontological Articles

Nicole Bonuso, Newton, Cathryn R., Brower, James C., and Ivany, Linda C., 2002, Does coordinated stasis yield taxonomic and ecologic stability?: Middle Devonian Hamilton Group of central New York: **Geology**, v. 30, no. 12, p.1055-1058.

Nicole Bonuso, Newton, Cathryn R., Brower, James C., and Ivany, Linda C., 2002, Statistical testing of community patterns; uppermost Hamilton Group, Middle Devonian (New York State, USA): **Palaeogeography, Palaeoclimatology, Palaeoecology**, v.185, no. 1-2, p. 1-24.

Nicole Bonuso, Newton, Cathryn R., Brower, James C., and Ivany, Linda C., 2002, Does coordinated stasis yield taxonomic and ecologic stability?: Middle Devonian Hamilton Group of central New York: **Geology**, v. 30, no. 12, p.1055-1058.

Newton, Cathryn R., 1998, Palaeotrends: **Palaeogeography, Palaeoclimatology, Palaeoecology** v. 144, p. 1-2.

McRoberts, Christopher A., and Newton, Cathryn R., 1995, Selective extinction among end-Triassic European bivalves: **Geology**, v. 23, p. 102-104.

McRoberts, Christopher A., Newton, Cathryn R., and Allasinaz, Andrea, 1995, End-Triassic bivalve extinction, Lombardian Alps, Italy: **Historical Biology**, v. 9, p. 297-313.

Ivany, Linda C., Newton, Cathryn R., and Mullins, Henry T., 1994, Benthic invertebrates of a modern carbonate ramp: **Journal of Paleontology**, v. 68, p. 417-432

Newman, W. B., Brower, J. C., and Newton, Cathryn R., 1992, Quantitative paleoecology of Hamilton Group localities in central New York: New York State Geological Assn, p. 170-19

Bice, D.M., Newton, Cathryn R., McCauley, S., Reiners, P.W., and McRoberts, C., 1992, Shocked quartz at the Triassic-Jurassic boundary in Italy: **Science**, v. 255, p. 443-446.

Newton, Cathryn R., 1990, Paleobiogeography of the ancient Pacific: **Science**, v.249, p. 681-683.

Newton, Cathryn R., 1990, Palaeobiogeography, in Briggs, D.E.G., and Crowther, P., eds.: **Palaeobiology: A Synthesis**: Blackwell, p. 452-460.

Thompson, Joel B., and Newton, Cathryn R., 1989, Late Devonian mass extinction: episodic climatic cooling or warming? International Symposium on the Devonian System, **Canadian Society of Petroleum Geologists Memoir** 14, III, p. 29-34.

Newton, Cathryn R., 1988, Significance of "Tethyan" fossils in the American Cordillera: **Science**, v. 242, p. 385-391.

Wang, Jason, Newton, Cathryn R., and Dunne, Lorie, 1988, Late Triassic transition from biogenic to arc sedimentation on the Peninsular terrane: Puale Bay, Alaska Peninsula: **Geological Society of America Bulletin**, v. 100, p. 1466-1478.

Newton, Cathryn R., 1987, Biogeographic complexity in Triassic bivalves of the Wallowa terrane, northwestern North America: oceanic islands, not continents, provide the best analogues: **Geology**, v. 15, p. 1126-1130.

Newton, Cathryn R., Whalen, Michael T., Thompson, Joel B., Prins, Nienke, and DeLalla, David, 1987, Norian (Late Triassic) bivalves from a tropical island arc: Wallowa terrane, Oregon: **Paleontological Society Memoir** 22, 83 pp.

Newton, Cathryn R., Mullins, Henry T., Gardulski, Anne F., Hine, Albert C., and Dix, George R., 1987, Coral mounds on the west Florida slope: Unanswered questions regarding the development of deep-water banks: **Palaios**, v. 2, no. 4, p. 359-367.

Thompson, Joel B. and Newton, Cathryn R., 1987, Ecological reinterpretations of the dysaerobic Leiorhynchus fauna: Genesee Black Shale, Central New York: **Palaios**, v. 2, no. 3, p. 274-281.

Newton, Cathryn R., 1986, Late Triassic bivalves of the Martin Bridge Limestone, Hells Canyon, Oregon: Taphonomy, paleoecology, paleozoogeography: **U.S. Geol. Survey Prof. Paper** 1435, p. 7-22.

Thompson, Joel B., Mullins, Henry T., Newton, Cathryn R., and Vercoutere, Thomas L., Alternative biofacies model for dysaerobic communities: **Lethaia**, v. 18, p. 167-179.

Mullins, Henry T., Heath, Kathryn C., Van Buren, H. Mark, and Newton, Cathryn R., 1984, Anatomy of a modern, open-ocean, carbonate slope: northern Little Bahama Bank: **Sedimentology**, v. 31, p. 141-168.

Newton, Cathryn R., 1983, Paleozoogeographic affinities of Norian bivalves from the Wrangellian, Peninsular, and Alexander terranes, northwestern North America: **Soc. Econ. Paleontol. Mineral. Sym. Vol.**, p. 37-48.

Books in Print and in Preparation

Newton, Cathryn R., and Laporte, Léo F., 1989, **Ancient Environments**, 3rd ed.: Prentice-Hall, 178 pp. (**AE** translated into German, Polish, Spanish, Japanese, and Portuguese)

Newton, Cathryn R., **Deep Findings: Discovering and Researching USS Monitor, World War II U-Boats, and Other Shipwrecks in the Graveyard of the Atlantic**
350 ms pages and 176 images. Scientific discovery and studies of shipwrecks in their oceanographic and geologic context. Have received positive technical and editorial reviews and am revising with the editor.

Professional Offices and Professional Boards

Editor-in-Chief, **Palaeogeography, Palaeoclimatology, Palaeoecology**, 1993-2000

Syracuse University Trustees, Student Affairs Committee (Faculty Representative)

Editorial Board, **Geology**, 1989-1991

Trustee, Paleontological Research Institution, 1984-88

Paleontological Society, Northeastern Section, President, 1992-93

AAU Deans of Colleges of Arts and Sciences, 2000-2008

Fellow, Geological Society of America, 1991- present

Paleontological Society, Councilor, 1987-1989

International Working Group on Mass Extinctions (IGCP #216)

Northeastern Section GSA (Geological Society of America, 1990), Board Member for Symposia

Oceanographic Research and Training Cruises

- 1973 R/V EASTWARD, Duke University: Discovery of USS MONITOR and Mapping of Pleistocene Structures on Carolina Continental Margin. PI's: John Newton, Harold "Doc" Edgerton, Bob Sheridan, Gordon Watts
- 1973 R/V EASTWARD, Duke University: Chemical Oceanography of Sargasso Sea PI: Rodger Baier
- 1973 R/V EASTWARD, Duke University: Physical Oceanography of Carolina Continental Margin
- 1976 R/V EASTWARD, Duke University: Marine Geology and Geophysics and Deep-Water Coral Reefs of the Straits of Florida, PI: Conrad Neumann
- 1979-80 R/V ED RICKETTS, California State University Consortium: Oxygen-Minimum Zone Sedimentation and Processes, Monterey Bay to Point Sur, California
- 1980 R/V DON J. MILLER, U.S. Geological Survey Alaska Branch: Geological Mapping of Triassic-Jurassic Strata, Alaska Peninsula from Kodiak to Puale Bay, Alaska. PI: Peter Plumley

- 2004 SSV ROBERT C. SEAMANS, Sea Education Association: Biological Oceanography, Tahiti, Moorea, Huahine, French Polynesia. PI: Brian Hopewell
- 2008 SSV ROBERT C. SEAMANS, Sea Education Association: Water Chemistry and Plankton Biology, San Francisco to Monterey, California. PI's: Kara Lavender (Law) and Gary Jaroslow
- 2009 AAAS, Central and Western Galápagos
- 2010 R/V TIOGA, Woods Hole Oceanographic Institution, Oceanographic Sampling Cruise for Syracuse University
- 2011 R/V SRVX, NOAA and Woods Hole Oceanographic Institution, Geological and Archeological Studies of WWII Steel Shipwrecks off Ocracoke Island, North Carolina (CRN brought in for expertise from my 2038-shipwreck database for NC)
- 2012 R/V TIOGA, Woods Hole Oceanographic Institution
- 2015 R/V TIOGA, Woods Hole Oceanographic Institution

Selected Representative Abstracts of Papers

Newton, Cathryn R., 2014, Large Marine Archeological Database for North Carolina: 500-year Record and Its Implications for Storm History: Geological Society of America Annual Meeting.

Bonuso, Nicole and Newton, Cathryn R., 2001, A closer look at how two fossil groups fared over a short interval of time. Geological Society of America, 2001 Annual Meeting Abstracts with Programs - Geological Society of America 33, no. 6:13.

Newton, Cathryn R., 1999, Preparing future earth scientists: American Geophysical Union National Meeting.

Newton, Cathryn R., 1998, Oceanic anoxic events: causes and consequences: American Geophysical Union National Meeting.

McRoberts, Christopher A., and Newton, Cathryn R., 1995, Selective extinction among end-Triassic European bivalves: Geological Society of America Annual Meeting.

Newton, Cathryn R., and McRoberts, Christopher A., 1990, Bivalve extinction at the Triassic-Jurassic boundary: association with abrupt sedimentological changes and presence of shocked minerals: Geological Society of America Annual Meeting, Abstracts with Programs, v. 22, p. 356.

Hoover, Peter R., and Newton, Cathryn R., 1990, Biogeographic and tectonostratigraphic implications of occurrences of Late Triassic cyrtinoid spiriferinacean brachiopods in western North America: Geological Society of America Annual Meeting, Abstracts with Programs, v. 22, p. 307.

- Newton, Cathryn R., 1989, Biogeography of latest Norian Cordilleran bivalves: Implications for extinction analysis and terrane comparisons: Geological Society of America Annual Meeting.
- Newton, Cathryn R., 1988, Meaning of "Tethyan" fossils in the American Cordillera: Geological Society of America Annual Meeting (Centennial Meeting; invited paper in theme session on Fossils in Accreted Terranes).
- Newton, Cathryn R., and Thompson, Joel B., 1987, High biological production and the origin of Lower Devonian spicular chert and black shale, central Appalachians: International Symposium on the Devonian System, Abstracts with Programs, p. 177.
- Thompson, Joel B., and Newton, Cathryn R., 1987, Episodic climatic warming and the Late Devonian mass extinction: International Symposium on the Devonian System, Abstracts with Programs, p. 225.
- Thompson, Joel B., and Newton, Cathryn R., 1986, Ecological reinterpretation of the dysaerobic Leiorhynchus fauna, Genesee black shale, central New York: Geological Society of America Annual Meeting.
- Newton, Cathryn R., and Bottjer, David, 1985, Evolutionary biogeography of active-margin biotas, Geological Society of America Annual Meeting.
- Newton, Cathryn R., 1984, Marine mass extinctions in accreted terranes: changes preceding the end-Triassic event: Geological Society of America, Cordilleran Section, Anchorage.
- Newton, Cathryn R., 1984, Late Triassic bivalves of the Martin Bridge Formation, Hells Canyon, Oregon: taphonomy, paleoecology, paleozoogeography: Soc. Econ. Paleontol. Mineral., Annual Meeting.
- Newton, Cathryn R., 1983, Triassic origin of shell-drilling gastropods: Geological Society of America, Annual Meeting.

Selected Grants

*As primary investigator.

\$1,000,039 Andrew Mellon Foundation.

“Central New York Humanities Corridor: Collaborative Project with Cornell and Rochester.” (Newton, PI) January 2006-December 2010*

\$330,000 Ford Foundation.

“Postdoctoral Fellows Program in the Public Humanities (\$110,000) * (Newton, PI), “Pan-African Education in 21st Century” (Linda Carty, PI); submitted by A&S as joint document and funded together. 2006-2007

\$122,355 National Science Foundation.

“Triassic-Jurassic Boundary Events in the Northern Apennines.”
June, 1991 - December, 1993.*

\$ 11,500 National Science Foundation SGER.

“Marine Species Richness Across the Triassic-Jurassic Boundary in Tuscany: Effects of the Manicouagan Impact?”
June 1, 1990 - May 31, 1991.*

\$ 39,645 Amoco.

“Early Mesozoic Tectonostratigraphic Evolution of the Peninsular Terrane, Alaska.”
May 1989 - December 1991.*

\$ 40,000 Petroleum Research Fund, American Chemical Society.

“Quantitative Paleoecology of Exceptional Faunas of the Hamilton Group, Central New York: From Number of Individuals to Biomass.”
September 1989 - August 1992 (Newton and Brower).

\$110,000 National Science Foundation.

“Dysaerobic Communities of Paleozoic High Productivity Zones.”
December 1985 - November 1987*

\$ 15,000 Petroleum Research Fund, American Chemical Society. (Type G)

“Comparative Paleoecology of Early and Late Norian Bivalves: Western North America.”
March 1984 - August 1986*

\$ 25,000 Multiple Grants for Alaska Sedimentary Research (Amoco, ARCO, Chevron, Exxon, Sohio). “Early Mesozoic Sedimentary Basin Evolution: Puale Bay, Alaska.”
November 1984 - August 1986*

Affiliations

American Association for the Advancement of Science
Geological Society of America (Fellow; Editorial Board, **Geology**).
Paleontological Research Institution Trustee, 1984-1989
Paleontological Society (elected councilor, 1987).
Member, International Working Group on Mass Extinctions (IGCP #216)

Courses Taught

Linked Lenses: Science, Philosophy, and the Pursuit of Knowledge (honors; co-taught)
Advanced Oceanography
Freshman Forum
History of Earth and Life
Darwin and the History of Evolutionary Theory (honors)
Advancement of Learning in the Natural Sciences (honors)
First-Year Honors Seminar
Mass Extinctions
Stratigraphy
Paleoecology
Seminar on Paleobiology
Graduate Seminar on Environmental Stratigraphy
The Science Shipwrecks

References

Available upon request