



PRI Annual Report 2009 | 2010

## annual report 2009-2010

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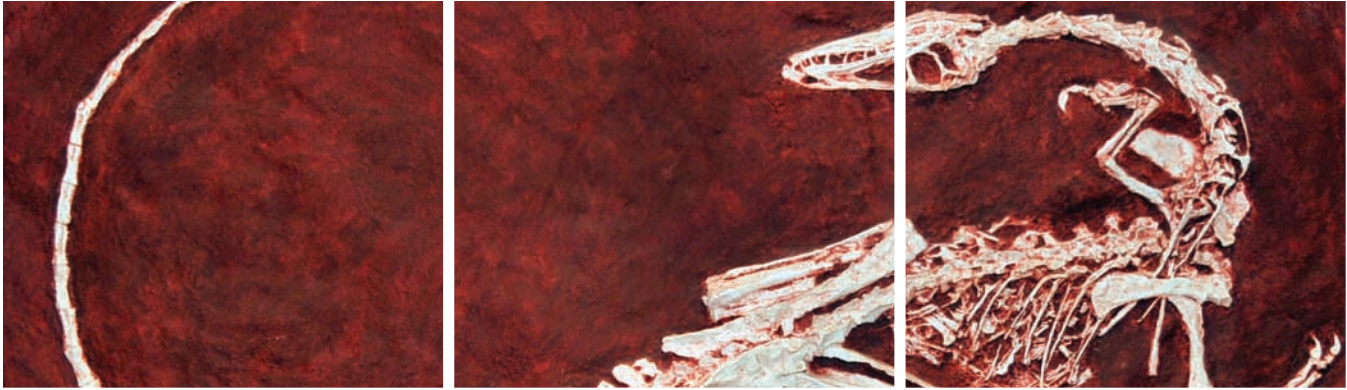
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## Message from the President

Serving on the Board of Trustees of PRI, I know what Dorothy must have felt like in the Emerald City: It's a truly spectacular place doing special work on extremely important science—but behind the curtain, pulling the levers is actually a rather modest, small group of incredibly talented, phenomenally articulate...hominins.

Where else can you go, as I did recently, not only to hear late-breaking research on the recently discovered “missing link” *Australopithecus sediba*, but to see what our probable ancestor looked like—even before publication? (Thanks to PRI Artist-in-Residence John Gurche.)

What other place can you visit that ties together, in one sweeping panorama, the very origins of life on Earth, the latest scientific data on our future on a warming planet, and what we can do to influence that future right here and now? (PRI published a great new “very short guide” to climate change this year.)

How can you better celebrate the unity of life on Earth than to listen, watch, smell, touch the stuff of creation, and learn from those whose gift it is to make it accessible to the child and the scientist in each of us? (PRI now has eight Ph.D.'s on its incredibly talented staff.)

PRI is limited not by science or art, nor by inspiration or excellence. It is only limited by the same mundane “resource-constrained environment” we all face. To watch how its staff has husbanded resources, yet produced more and more basic research, education, and outreach, has truly been an education in itself.

I am proud to be associated with this most dedicated group of scientists, educators, support staff, and volunteers. Please help me spread the word about how special PRI and the Museum of the Earth are, and learn from these pages how worthy they are of our time, our energy, and our substantial support.

**Rob Mackenzie, MD**  
President  
PRI Board of Trustees





## Message from the Director

Like most CEOs in these uncertain times, I am frequently asked “how’s it going?” in my organization. When people asked me this immediately after the economic downturn in 2008, my initial answer was usually something somber like “things are tough” or “we’re holding our own”. After a few months of this, however, it became clear to me that this was not accurate, or rather it was less than half-true. For most of the last two years, I have given a different response: “Things at PRI are programmatically amazing, even though they’re financially challenging”.

This isn’t just me relabeling the glass half-full for the benefit of public perception. As real as the current economic difficulties are, just as real are the extraordinary growth and improvements in PRI’s programs over the past two years, which are summarized in this Annual Report. In a nutshell: PRI is today fulfilling its mission more successfully than ever -- in collections, research, publications, and educational outreach -- and reaching more people with more and better programs than ever before. Furthermore, PRI’s financial situation is actually not that bad, and is certainly better than some other much larger, older, and better known peer institutions.

Not all is good news, of course, either in Ithaca or beyond. The reality of the not-for-profit world in 2010 is that there are fewer financial resources available to support many more organizations. The CEO of a major national foundation was recently quoted as saying that the current model of philanthropic support is “broken”, meaning that it will simply not be possible for all existing not-for-profits to continue to do what they have always done and expect to be funded as they have been in the past. This comment is representative of an emerging consensus, among both funders and charities themselves, that we may never return to the previous status quo; some organizations are going to downsize or disappear, permanently.

In such times, the conventional wisdom is to be cautious and husband one’s financial resources. This is indeed critical and PRI is doing it. We have reduced our expenses and are being much more cautious about what new initiatives we undertake. Yet in such times it is also difficult to remember that our institutional purpose is not to perpetuate ourselves. It is – as it has always been – to serve society by doing what we are good at doing. This means not just being careful with our expenses and revenues. It also means aggressively doing what we do better, applying what we do to new and pressing societal problems, and explaining to new audiences why and how what we do matters. If previous times of plenty are not going to return any time soon, then it will be those organizations that are most successful in fulfilling important missions that will survive and prosper.

And it is in this incredibly important respect that PRI is, remarkably, thriving in these difficult times. How are we doing? As you will see in this report, the answer is “Great!”

Warren D. Allmon  
Director

## Research

The Paleontological Research Institution was in part originally conceived as a place for scientists and students to conduct original research. Today, PRI is home to eight Ph.D. scientists, several formally affiliated Ph.D. graduate students at Cornell University, and also hosts active Research Associates.



**Dr. Warren Allmon** (Director) has focused his recent research on three separate but related areas. He continues to work on the diversity, evolution, and natural history of fossil and living turritellid gastropods, and this year did field work in Panama and museum collections in Switzerland and London. He is also wrapping up an NSF-funded research project (in collaboration with Syracuse University professor and PRI Trustee Linda Ivany) on evolutionary changes in marine faunas across the Paleocene-Eocene boundary (ca.55 million years ago) in the U.S. Gulf Coastal Plain. He also continues theoretical work on how evolutionary biologists can study the process of new species formation using data from the fossil record. Allmon proudly graduated his sixth Cornell Ph.D. student, **Ursula Smith**, in 2010; Ursula researched the evolution and diversity of late Cenozoic turritellid gastropods in New Zealand, and is now headed for a postdoctoral position in Australia.



**Dr. Gregory Dietl** (Director of Collections) pursues research that focuses on the evolution of ecological interactions using the molluscan fossil record of the last few million years. Highlights of his research activities this past year included a research trip to the Smithsonian Tropical Research Institute in Panama to study the effects of the final closure of the Isthmus of Panama roughly three-million years ago on the ecology and evolution of marine mollusks.

He also co-organized and led, in collaboration with Patricia Kelley (University of North Carolina at Wilmington), the third year of an NSF-Research Experiences for Undergraduates Program in Biodiversity Conservation. The goal of the program was to examine temporal changes in the marine ecosystems of the Carolinas to determine the degree and nature of societally driven environmental alteration, to assess the health of the modern ecosystems, and to identify possible approaches to conserving biodiversity. He also co-organized (with Karl Flessa of the University of Arizona), the highly successful Paleontological Society short course on *Conservation Paleobiology* at the Annual Geological Society of America Meeting in Portland, Oregon.



**Dr. Paula Mikkelsen** (Associate Director for Science and Director of Publications) is a marine biologist and malacologist interested in the diversity, anatomy, and evolution of living clams and snails. Mikkelsen is principle investigator on two National Science Foundation grants to study the evolution of bivalves and mollusks in collaboration with colleagues: “Bivatol” (Assembling the Bivalve Tree of Life, <http://www.bivatol.org>), which also produced the traveling exhibit “Science on the Half Shell: How and Why We Study Evolution,” which opened at Museum of the Earth in September 2010, and “BiTS” (Bivalves in Time and Space), which explores the evolution of two large clades of bivalves, from molecular, morphological, and paleontological viewpoints.

The Deepwater Horizon oil spill in the Gulf of Mexico brought Mikkelsen’s expertise in marine biology and southeastern U.S. coastlines to the fore, resulting in numerous press contacts, invited lectures, and the exhibit/website “Under Siege: Marine Life versus the Gulf Oil Spill.”



**Dr. Judith Nagel-Myers** (Collections Manager) focuses in her research on the role that predation has played in the Paleozoic Era. In the course of this work, she examines predation traces on bivalves as well as on brachiopods. An ongoing collaboration with Greg Dietl (PRI) and Carl Brett (University of Cincinnati) is looking at interspecies interactions of organisms in the Devonian Hamilton fauna, with special emphasis on predator-prey systems.



**Dr. Richard A. Kissel** (Director of Teacher Programs) is a vertebrate paleontologist interested in the terrestrial ecosystems of the late Paleozoic Era, with a current focus on the evolution of herbivory within tetrapods (those vertebrates with four limbs and digits).







**Staff and Student Publications**

Between July 1, 2009, and June 30, 2010, PRI scientists and affiliated students and research associates (names in bold face) published these 40 titles (plus numerous presentation abstracts and newspaper articles not listed here). (\* = peer-reviewed)

**Allmon, W. D. 2009.** Every year is a year of planet Earth. *American Paleontologist*, 17(4): 1.

**Allmon, W. D. 2009.** The power (and peril) of paleontological images. *American Paleontologist*, 17(3): 20-21 (extended version at [www.museumoftheearth.org](http://www.museumoftheearth.org)).

**\*Allmon, W.D. 2009.** Speciation and shifting baselines: Prospects for reciprocal illumination between evolutionary paleobiology and conservation biology. In: *Conservation Paleobiology: Using the Past to Manage for the Future*, G. P. Dietl & K. W. Flessa (eds). *Paleontological Society Special Publication*, 15: 245-273.

**Allmon, W. D. 2010.** The challenge of climate change. *American Paleontologist*, 18(1): 1.

**Allmon, W. D., P. M. Mikkelsen, & K. Cronin. 2009.** Program and Abstracts, American Malacological Society 75th Annual Meeting, Ithaca, New York, July 19-23 2009. *Paleontological Research Institution, Special Publication 37*, Ithaca, New York, 152 pp.

**\*Allmon, W. D., T. A. Smrecak, & R. M. Ross. 2010.** Climate Change – Past, Present & Future: A Very Short Guide. *Paleontological Research Institution, Special Publication 38*, Ithaca, New York, 200 pp.

**Auer, S. 2009.** Darwin for Kids in 2009: a review. *American Paleontologist*, 17(4): 20-21.

**\*Bieler, R., & R. E. Petit. 2010** Thylacodes – Thylacodus – Tulaxodus worm-snail name confusion and the status of *Serpulorbis* (Gastropoda: Vermetidae). *Malacologia*, 52(1): 183-187.

**Dake, J. 2009.** Field Guide to the Cayuga Lake Region. *Paleontological Research Institution, Special Publication 36*, Ithaca, New York, 152 pp.

**Dietl, G. P. 2009.** Paleobiology and the conservation of the evolving web of life. In: *Conservation Paleobiology: Using the Past to Manage for the Future*, G. P. Dietl & K. W. Flessa (eds). *Paleontological Society Special Publication*, 15: 221-244.

**Dietl, G. P. 2010.** Zinsmeister Collection. *American Paleontologist*, 18(2): 28.

**\*Dietl, G. P., S. Durham, & P. H. Kelley. 2010.** Shell repair as a reliable indicator of bivalve predation by shell-wedging gastropods in the fossil record. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 296(1-2): 174-184.

**Dietl, G. P., & K. W. Flessa, eds. 2009.** *Conservation Paleobiology: Using the Past to Manage for the Future*. *Paleontological Society Special Publication*, 15, 285 pp.

**Dietl, G. P., & K. W. Flessa. 2009.** An introduction to conservation paleobiology. In: *Conservation Paleobiology: Using the Past to Manage for the Future*, G. P. Dietl & K. W. Flessa (eds). *Paleontological Society Special Publication*, 15: xiii-xv.

**\*Herbert, G. S., G. P. Dietl, H. Fortunato, L. R. L. Simone, & J. Siiko. 2009.** Extremely slow feeding in a tropical drilling ectoparasite, *Vitularia salebrosa* (King and Broderip, 1832) (Gastropoda: Muricidae), on molluscan hosts from Pacific Panama. *The Nautilus*, 123: 121-136.

**Kissel, R. 2010.** Morphology, Phylogeny, and Evolution of Diadectidae (Cotylosauria: Diadectomorpha). Ph.D. Dissertation, University of Toronto.

**Kissel, R. A. 2009.** Dogs get their day. *American Paleontologist*, 17(3): 29-30.

**Kissel, R. A. 2009.** A sale of a tale. *American Paleontologist*, 17(4): 22-23.

**Kissel, R. A. 2009.** The science of hyperbole. *American Paleontologist*, 17(3): 22-23.

**Kissel, R. A. 2010.** All the better to eat you with. *American Paleontologist*, 18(1): 22-23.





**Kissel, R. A. 2010.** Cecil's Colossal Journey Through Time! Coloring & Activity Book. Paleontological Research Institution, Special Publication 39, Ithaca, New York, 52 pp.

**Kissel, R. A. 2010.** From ring finger to wing finger. *American Paleontologist*, 18(2): 22-23.

**Mikkelsen, P. 2010.** Writing for you (and Mom). *American Paleontologist*, 18(2): 1.

**\*Mikkelsen, P. M. 2010.** Seventy-five years of molluscs: a history of the American Malacological Society on the occasion of its 75th annual meeting. *American Malacological Bulletin*, 28: 191-213.

**\*Nagel-Myers, J., M. Amler, & R. T. Becker. 2009.** The Loxopteriinae n. subfam. (Dualinidae, Bivalvia): review of a common bivalve taxon from the Late Devonian pelagic facies. In: *Studies in Devonian Stratigraphy: Proceedings of the 2007 International Meeting of the Subcommittee on Devonian Stratigraphy and IGCP 499*. *Palaeontographica Americana*, 63: 167-191.

**\*Nagel-Myers, J., G. P. Dietl, & C.E. Brett. 2009.** First report of sublethal breakage-induced predation on Devonian bivalves. *Palaios*, 24(7): 460-465.

**\*Nichols, D. L., C. Elson, L. G. Cecil, N. Neivens de Estrada, M. D. Glascock, & P. Mikkelsen. 2009.** Chiconautla, Mexico: a crossroads of Aztec trade and politics. *Latin American Antiquity*, 20(3): 442-472.

**\*Petit, R. E. 2009.** George Brettingham Sowerby, I, II, & III: their conchological publications and Molluscan taxa. *Zootaxa* 2189: 1-218.

**Petit, R. E. 2009.** Perry's Arcana: a Facsimile Edition with a Collation and Systematic Review. The Academy of Natural Sciences and Temple University Press, Philadelphia. viii + 567 pp.

**\*Petit, R. E., L. Campbell, & S. Campbell. 2010.** A new species of *Zeadmete* (Gastropoda: Cancellariidae) from South Carolina, a genus previously unknown in the Atlantic Ocean. *The Nautilus*, 124(1): 41-43.

**\*Sagarin, R. D., C. S. Alcorta, S. Atran, D. T. Blumstein, G. P. Dietl, M. E.**



**Hochberg, D. D. P. Johnson, S. Levin, E. M. P. Madin, J. S. Madin, E. M. Prescott, R. Sosis, T. Taylor, J. Tooby, & G. J. Vermeij. 2010.** Decentralise, adapt and cooperate. *Nature*, 465: 292-293.

**\*Schnetler, K. I., & Petit, R. E. 2010** Revision of the gastropod family Cancellariidae from the Paleocene of Nuussuaq, West Greenland. *Cainozoic Research*, 7(1-2): 3-26.

**Smith, U. 2009.** Green River angiosperms. *American Paleontologist*, 17(3): 32.

**Smith, U. 2009.** K-Pg boundary samples. *American Paleontologist*, 17(4): 32.

**Smith, U. 2010.** Blastoids. *American Paleontologist*, 18(1): 32.

**Smith, U. 2010.** Heteromorph ammonite. *American Paleontologist*, 18(2): 32.

**Smrecak, T. 2010.** Climate change for younger readers. *American Paleontologist*, 18(1): 13.

**\*Stephenson, E. H., R. S. Steneck, & R. H. Seeley. 2009.** Possible temperature limits to range expansion of non-native Asian shore crabs in Maine. *Journal of Experimental Marine Biology and Ecology*, 375: 21-31.

**\*Tripathi, A.K., W.D. Allmon, & D. E. Sampson. 2009.** Possible evidence for a large decrease in seawater strontium/calcium ratios and strontium concentrations during the Cenozoic. *Earth and Planetary Science Letters*, 282: 122-130

**\*Turgeon, D. D., W. G. Lyons, P. Mikkelsen, G. Rosenberg, and F. Moretzsohn. 2009.** *Bivalvia* (Mollusca) of the Gulf of Mexico. Pages 711-744, in: Felder, Darryl L. and David K. Camp (eds.), *Gulf of Mexico—Origin, Waters, and Biota, Volume 1, Biodiversity*. Texas A&M University Press, College Station, Texas.

## Publications

Scientific publications remain at the heart of PRI's mission. *Bulletins of American Paleontology*, first published in 1895, is today the nation's oldest paleontological journal. PRI produces three other series: *Palaeontographica Americana*, our occasional monographs; *American Paleontologist*, our quarterly membership magazine; and Special Publications, including the ever-popular *Ithaca is Gorges* and other stand-alone volumes.

This fiscal year showed us branching out from the norm in a variety of directions. In addition to our four issues of *American Paleontologist* magazine, we published our first coloring book, our first full-color publication (also our first joint publication with Cayuga Nature Center), and a third number in our recently rejuvenated series *Palaeontographica Americana*. Although no issues were produced in FY10, *Bulletins of American Paleontology* was hardly dormant; a 550-page double-number monograph was in production throughout the year (and was published shortly after the beginning of FY11). Although technically not a PRI publication, PRI's Greg Dietl co-edited a volume, *Conservation Paleobiology: Using the Past to Manage for the Future*, for The Paleontological Society. PRI serves as publications vendor for PS's "Papers" series that accompany its short courses at Geological Society of America annual meetings; Greg's volume was one such contribution, and has been a very popular item on our sales list. Book sales continue to be extremely healthy, thanks to a variety of factors, including an easy-to-use website (with electronic versions of many volumes) and offerings on Amazon.com.

**American Paleontologist magazine:** Fall 2009 on Flowering Plants; Winter 2009 on the International Year of Planet Earth; Spring 2010 on Fossils & Climate Change; Summer 2010 on Heteromorph Ammonites.

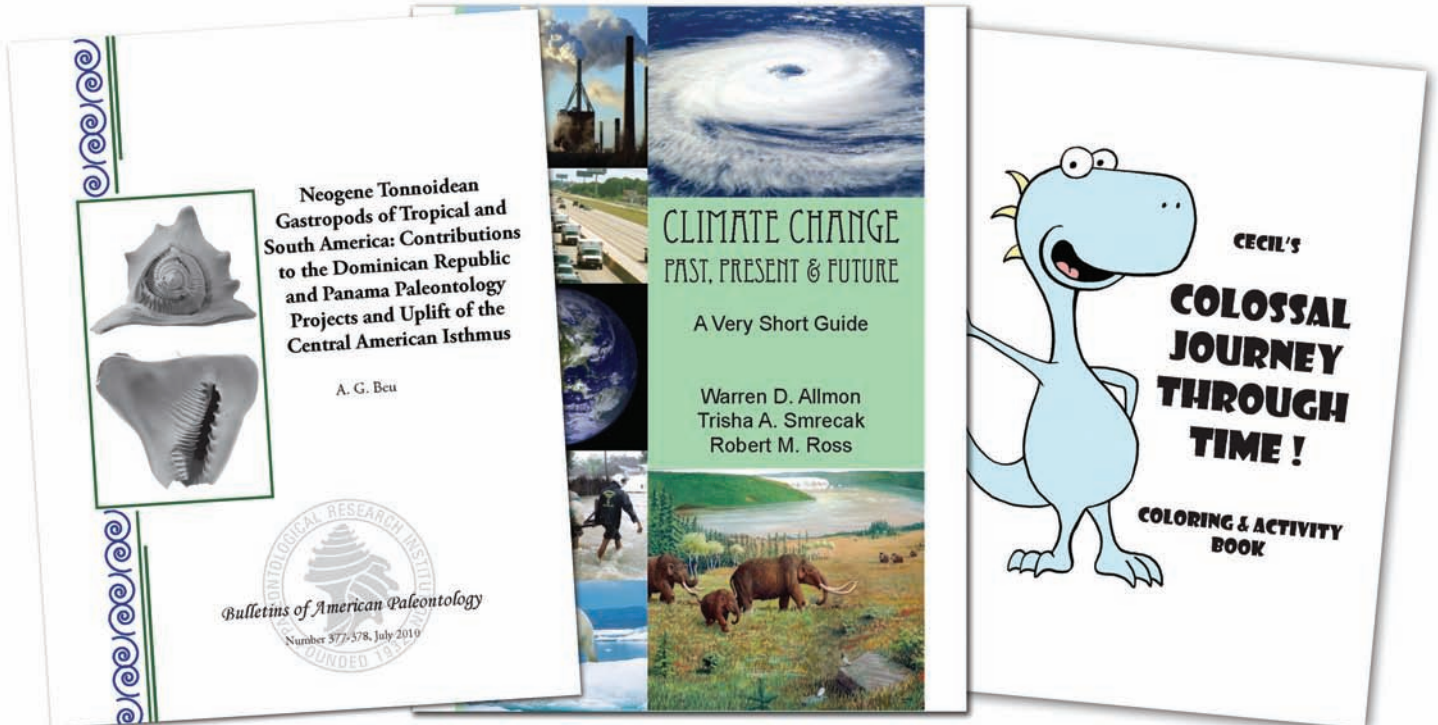
**Cecil's Colossal Journey Through Time! Coloring & Activity Book**, by Richard A. Kissel, June 2010, 52 pp., [no ISBN number], PRI Special Publication no. 39.

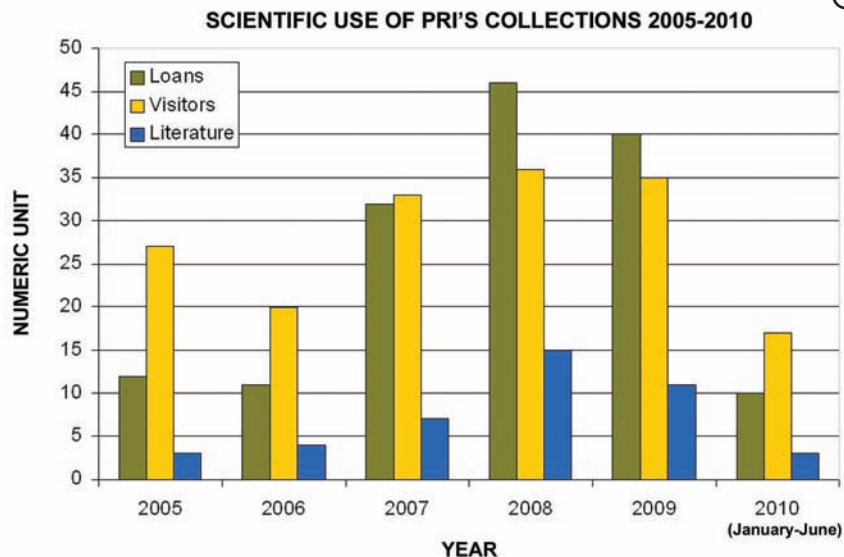
**Climate Change – Past, Present & Future: A Very Short Guide**, by Warren D. Allmon, Trisha A. Smrecek, and Robert M. Ross, April 2010, 200 pp., ISBN 978-0-87710-491-9, PRI Special Publication no. 38.

**Field Guide to the Cayuga Lake Region: Its Flora, Fauna, Geology, and History**, by James Dake, July 2009, 152 pp., color illus., ISBN 978-0-87710-485-8, PRI Special Publication no. 36.

**Program and Abstracts**, American Malacological Society 75th Annual Meeting, Ithaca, New York, July 19-23, 2009, edited by Warren D. Allmon, Paula M. Mikkelsen, and Kelly Cronin, July 2009, 96 pp., ISBN 978-0-87710-489-6, PRI Special Publication no. 37.

**Studies in Devonian Stratigraphy:** Proceedings of the 2007 International Meeting of the Subcommittee on Devonian Stratigraphy and IGCP 499, edited by D. Jeffrey Over, December 2009, 240 pp. + CD-ROM, ISBN 978-0-87710-490-2, *Palaeontographica Americana* 63.





The PRI collections include between 2 and 3 million specimens, making them among the 10 largest in the United States. The 2009-2010 fiscal year saw significant progress in specimen curation, making PRI's research collections more accessible to researchers, students, and educators. The collections department was awarded a nearly half-million dollar grant from the National Science Foundation to install compactors (mobile storage units) to the upper floor of the Raymond Van Houtte Collections Wing. The 2-year project resulted in the installation of nearly 4000 new compactorized drawers to the Collections Wing, mainly to the upper floor of the addition; the curation and databasing of an estimated 7000 specimen lots in the Harris-Palmer collection of Paleocene and Eocene mollusks from the southeastern US (the formative nucleus around which PRI's entire collection has grown); and the reorganization and basic curation of the non-type systematic fossil and Recent mollusk collection (the backbone of PRI's collection).

The scientific use of PRI's collections also dramatically increased over the past year, making PRI more competitive with its peer institutions. The number of scientific loans in 2009 was the second highest total (40) in PRI's history. Thirty-five professional and student researchers also visited the collections in the 2009 calendar year. PRI's collections were also cited in 11 scientific publications in the 2009 calendar year—a level that is higher than or comparable to reported use at several much larger peer institutions. Data so far for 2010 are on track to equal this level of usage.

The collection itself continued to grow throughout the year. The most significant accession during the past year was a gift of more than 2,500 specimens, mostly trilobites, from Lloyd Gunther of Brigham City, Utah, from various localities in the House Range Mountains of west-central Utah. The House Range is one of the most famous Cambrian fossil collecting regions in the world.

The following individuals donated specimens to the PRI collections between 7/1/09 and 6/30/10:

Loren Babcock

William Bemis

James Brower

Lyle and Sarah Campbell

George R. Clark

Barbara Dimock

John Erickson

Lloyd Gunther

Linda and Peter Hemmerich

Linda Ivany

William Klose

Jim Turnbull

Karl A. Wilson





# Volunteers

10

PALEONTOLOGICAL RESEARCH INSTITUTION



Throughout the year, over 170 volunteers and volunteer groups donated 5,953 hours of their time to PRI and its Museum of the Earth. Volunteers willingly contribute their time and talents to the collections, education, development, exhibits, publications, and operations staff on a regular basis. Additionally, many of our volunteers are pursuing individual projects such as identifying and cataloging a newly-received extensive mineral collection, creating a public education course that runs for six weeks every year, and developing a "Discovery Box" program that will explain some topics in the Museum more in depth. We are extremely grateful for the contributions these volunteers have made to the Institution.

Thank you, volunteers, for everything you do for us! The following individuals volunteered regularly during the 2009-2010 fiscal year:

Erin Allen  
Carrie Allmendinger  
Elizabeth Altier  
Maria Altier  
Allison Bailey  
Curt Banta  
Maureen Bickley  
Daron Blake  
Janice Brown  
Al Burkhardt  
Peg Burlew  
Dick Burlew  
Noelle Chaine  
Pat Charwat  
Derrick Chong  
Michelle Clair  
Lexi Clarke  
Jenny Cleland  
Rory Cooper

Marla Coppolino  
Tonya Curran  
Stephen Dacek  
Megan Davis  
Molly Deacon  
Jordan Decker  
Barbara Dimock  
Lenore Durkee  
Vern Durkee  
Michael Dziejowski  
Josh Ellis  
Sally Fabadie  
Eniko Farkas  
Natasha Fay  
Deborah Feld  
Kelly Finan  
Lu Fong  
Jeremy Gardner  
Walter Gates  
Christie Graci  
Ashley Hatfield  
Robin Henne  
Kathy Houg  
Carlene Howard  
Rickey Ishida  
Michael Johnson

Min Kang  
Caleb Kessler  
Erik Keto  
Da Yeon Kim  
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Leah Solla

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Samantha Strait  
Adam Tagliamonte  
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Lane Wallet  
Cathy Whalen  
Don Wilson  
Kenny

We work with a number of agencies within the community. Thank you for your efforts and contributions to our organization! Broome Developmental Disabilities, Ithaca College Plunge, Cornell POST, Cornell Day of Demeter and the Ithaca Youth Bureau.



**PRI makes the history of the Earth and its life accessible to audiences of all ages and backgrounds.**

Education programs at PRI cover a broad range of content, audiences, and geography, from the geology of Central New York to global climate change to evolution, from K-12 students to teachers to the general public, and from Ithaca to the entire country. Locally, regionally, and nationally, PRI is a major provider of Earth, life, and environmental science outreach opportunities. The following table summarizes this spectrum of service.

	Earth 101	Climate Change Education	Evolution Education
Local	<ul style="list-style-type: none"> <li>• Permanent and temporary exhibits at the Museum of the Earth</li> <li>• School and community group presentations</li> <li>• Girl Scout and Boy Scout workshops</li> <li>• Teacher Resource Day</li> <li>• Cornell University and Ithaca College students use of the Museum and collections</li> <li>• Museum docent training</li> <li>• Interpretive walks &amp; fossil collecting</li> </ul>	<ul style="list-style-type: none"> <li>• Climate change exhibits</li> <li>• Earth Day activities</li> <li>• Climate change presentations</li> </ul>	<ul style="list-style-type: none"> <li>• Exhibits and Museum tours on evolution and the history of life</li> <li>• Darwin Days celebration</li> <li>• Museum docent training</li> </ul>
State	<ul style="list-style-type: none"> <li>• Earth science teacher workshops</li> <li>• New York State Fair outreach education with 4-H</li> <li>• Earthquake education programs</li> <li>• Educational resources &amp; presentations on Marcellus Shale</li> <li>• Kipp NYC Teacher Programs</li> </ul>	<ul style="list-style-type: none"> <li>• 4-H climate change curriculum development</li> <li>• Talks on climate change to community groups throughout the state</li> <li>• Teacher workshops</li> <li>• Traveling exhibit kiosks on climate change</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher workshops and curriculum materials</li> </ul>
National	<ul style="list-style-type: none"> <li>• Fossil Finders</li> <li>• Teacher pro national series of <i>Teacher-Friendly Guides to Geology</i></li> <li>• Virtual Fieldwork Experiences</li> <li>• Earth System Science Informal Education Network</li> <li>• Mastodon Matrix project</li> <li>• National Earth science education reform initiatives</li> </ul>	<ul style="list-style-type: none"> <li>• Global Change website and blog</li> <li>• Online professional development for informal educators</li> <li>• Energy transition teacher professional development</li> <li>• Climate Change Past, Present &amp; Future book</li> <li>• National climate literacy education initiatives</li> </ul>	<ul style="list-style-type: none"> <li>• Fossil Finders</li> <li>• <i>Evolution &amp; Creationism</i> book and guide for museum docents</li> <li>• Teacher-Friendly Guide to teaching evolution</li> <li>• Traveling exhibit and teacher kit on bivalve evolution</li> <li>• Traveling exhibit and <i>Teacher-Friendly Guide</i> on maize evolution</li> <li>• Evolution educator initiative</li> </ul>





A basic understanding of the history of the Earth, its life, and the science by which we study it, plays a vital role in shaping an informed public ready to tackle global environmental issues. These Earth science basics – what we call Earth 101 – are at the core of our educational outreach mission and many of PRI's educational programs and exhibits.

With programs for all ages, PRI helps students learn about topics ranging from ancient reptiles in our "Dinosaur Science" program, to the evolution of plant life and ecosystems in "Botany through the Ages." Using fossils from PRI's collections, these hands-on programs introduce students to basic scientific concepts used in the study of past organisms. Our program "Ancient Seas over New York State" emphasizes the ways that scientists draw conclusions, while highlighting the global

changes that have occurred in our own backyards over many centuries. "Ice Age Life" uses the fossil-rich sediments from PRI's Hyde Park mastodon excavation to explore how different life was "only" 13,000 years ago.

Programming at PRI goes beyond K-12 with additional public programs that vary from our annual James Potorti Memorial Interpretive Walks in the local State Parks to public fossil collecting fieldtrips. These excursions teach the story of the past several hundred million years of New York history through the exploration of local gorges and outcrops.

Our *Ithaca is Gorges* booklet shares that story in an accessible 28 pages, while the *Teacher-Friendly guide to the Geology of the Northeastern U.S.* gives more detail of the geology of New York in 200 pages

of text developed for Earth science educators. The permanent exhibit of the Museum of the Earth, "Journey through Time," invites visitors to explore the history of the Northeast through spectacular fossil specimens, video, original artwork, and interactive stations.

Through a wide variety of hands-on and interactive approaches, we provide Earth 101 information that is relevant from a local to a global level, improving public literacy in Earth science for all ages.



Global climate change remains at the forefront of current environmental concerns, and is one of the central points of focus in PRI's informal Earth science education efforts. We continue to provide outreach on climate change, energy and sustainability, biodiversity loss, and other related issues through our Global Change Project. Aspects of this project include:

- a comprehensive global change website, [www.museumoftheearth.org/globalchange](http://www.museumoftheearth.org/globalchange)
- an NSF-funded collaboration with NYS 4-H and the Community Collaborative Rain, Hail, and Snow network (CoCoRaHS) that produced a curriculum that engages youth to record precipitation data, and use that data as a catalyst for understanding weather, climate and the effects of climate change.

*4-H educator training on this material is far-*

*reaching, effective, and engages counties throughout NYS in the project.*

- surveying rural audiences for their opinions on climate change and how best to engage them. While we are currently investigating green exhibit construction opportunities and carbon-neutral transportation options using pre-existing community networks, the eventual goal of the project will be to provide a local, carbon-neutral traveling exhibit to community centers in rural audiences.
- unbiased outreach on Marcellus Shale drilling in NYS, including presentations and written materials that address various aspects of drilling for natural gas in the Marcellus Shale. We also have a blog documenting our experiences as educators, a science-journalism series on the issue, and materials

on our website at [www.museumoftheearth.org/marcellusshale](http://www.museumoftheearth.org/marcellusshale)

- a book entitled *Climate Change – Past, Present, and Future: A Very Short Guide*, by Warren Allmon, Trisha Smrecak, and Robert Ross.
- a blog called Climate Change 101, which features posts reflecting current news, tips for a sustainable lifestyle, and the low-carbon adventures of numerous staff.

Our work is highlighted in a quarterly mailing list that discusses climate change research and education news, as well as what PRI is doing locally. We also remain active in the outreach education arm of the Tompkins County Climate Protection Initiative, a consortium of local businesses, government, educational institutions, and not-for-profits dedicated to improving energy efficiency in and around Ithaca.





## Evolution

Through our vast collection of specimens, our museum facility, and our outreach programs, PRI facilitates improved public understanding of what evolution is and how scientists endeavor to study it. PRI's Evolution Project includes many popular outreach events, activities, and publications.

- PRI co-hosted the 5th annual Darwin Days celebration with Cornell University commemorating Charles Darwin's birthday, with panel discussions, lectures, and the opening of our temporary exhibit, *One Fish, Two Fish, Old Fish, New Fish: Exploring the Evolution of Biodiversity*. The exhibit showcased the work of Professor Richard Harrison's lab at Cornell University.
- PRI staff continue to work with the Field Museum and Harvard University on a 5 year NSF-funded "Assembling the Tree of Life" grant to develop the evolutionary tree of bivalves. Staff have been assembling a traveling exhibit, "Science on the Half-Shell," which will be featured at the Museum of the Earth from September 2010 to

January 2011, and will then travel.

- PRI, in partnership with the Department of Education at Cornell University, have completed their 2nd year of the 4 year NSF-funded grant, Fossil Finders. This year, 20 teachers from across the nation participated in a week-long professional development in Ithaca, and then were sent Devonian fossil samples for their classroom's to teach the nature of science and science inquiry.
- The early hominid sculpture work featured in production last year by artist-in-residence and noted paleoartist, John Gurche, has now been bronzed and installed in the human evolution exhibition at the Smithsonian.
- The Museum of the Earth is visited by college and university students who use the museum exhibits to better understand evolution and the history of life through time.

## Marcellus

The Marcellus Shale, located in parts of New York, PA, OH, and WV, is geographically the largest shale gas basin in the United States, and extraction efforts are already underway in PA and WV. The Marcellus

is an obvious example of "geology in our backyard", which has long been a focus of PRI educational programming, and so offers an opportunity to engage people at multiple levels with Earth science that matters to their daily lives. The environmental implications of drilling for natural gas in the Marcellus are of enormous interest locally, regionally, and nationally. Working with Cornell Cooperative Extension (CCE) and with funding from the National Science Foundation, we seek to provide an unbiased source of scientific information on the subject via websites ([naturalgas.cce.cornell.edu](http://naturalgas.cce.cornell.edu) and [museumoftheearth.org/marcellusshale](http://museumoftheearth.org/marcellusshale)). PRI also helped CCE to offer CCE inservice workshops, community taskforce meetings, and public presentations on Marcellus Shale natural gas drilling. PRI staff are also developing comprehensive, science-based, informational materials on topics including environmental impacts, life cycle analyses, geological considerations, and drilling technology, which will be published beginning in 2011.





**PRI's Museum of the Earth offers a variety of education programs for youth and adults. With programs encompassing a wide range of topics from the ever-popular dinosaurs to the paleontology of your own backyard, the Museum attracts a diverse audience from all corners of the state. In the past year, over 2,700 students participated in 188 education programs. Additionally, staff and volunteer docents led 113 tours of the Museum.**

*The following groups participated in programs or tours with Museum of the Earth during fiscal year 2009 – 2010:*

4-H Career Exploration Conference  
ADT  
Afred University  
Children and Youth Learning Initiative  
AnNur Islamic School  
Anot Medical Service  
Athens Science Olympiad  
Aurica Herb Group  
Avoca Central School  
Belle Sherman Afterschool  
Binghamton University  
Boy Scouts  
Brewster High School

Camp Barton  
Candor Elementary  
Casowasco  
Cornell Adult University  
Cornell Adult University Teen Program  
Cornell Adult University Youth Camp  
Cayuga Addiction Recovery  
Cayuga Heights Montessori School  
Chapin School  
Cincinnatus Liberty Partnership Program  
Community School of Music and Arts  
Cornell CF-IRMS Workshop  
Cornell Childcare Center  
Cornell Evolutionary Biology 2780  
Cornell Evolutionary

Biology 2670  
Corning High School Learning Center  
Cub Scouts  
Dryden Elementary  
Dryden Middle School  
E. John Gavars Center  
EAC Montessori  
East Ithaca Preschool  
Edmeston High School  
Elder Hostel  
Elmira College  
Elmira Free Academy  
Even Start South Seneca  
Experience the Fingerlakes  
Fabius-Pompey Middle School  
Fassett Elementary  
Fingerlakes Community College  
Floyd L. Bell Elementary

Franklin Central School  
Genesee Community Charter School  
George Junior Republic GIAC  
Girl Scouts  
Gladys Burnham Elementary  
Groton High School  
Happiness House  
Harley School  
Holy Family School  
Homer Brink Elementary  
Homeschool groups  
Hornell City School District  
Ithaca College Speech Language and Audiology  
Ithaca Youth Bureau  
Ithaca Youth Bureau Day Camp  
KinderCampers

KIPP  
LACS  
Lincoln St. Elementary  
Longview  
Loretto Heritage  
Madison Cortland ARC  
Main-Endwell Science Olympiad  
Mann Library  
McGraw Elementary  
Monroe BOCES #1  
Northeast Kids Camp  
Northside Blodgett MS  
Onondaga Community College  
Onondaga Hill Library  
OSHER at RIT  
Our Lady of Sorrow School  
Owego Elementary  
Pathways Inc.  
Peachtown Elementary School



# KIDS DISCOVER THE TRAIL!

17

Phoenix High School  
Pittsford High School  
Ribbons of Hope  
Russell Doig  
Middle School  
School Age Childcare  
Shippensburg University  
Sidney Middle School  
Smith School  
Southhill Tots  
Southside  
Community Center  
Spencer Van Etten  
High School  
SRI Education – Cornell  
Cooperative Extension  
St. Patrick's School  
St. Paul United  
Methodist Church  
Syracuse University  
Onondaga  
Community College  
SUNY Oneonta  
SUNY Oswego  
Syracuse VACCC  
TC3

TC Global Connections  
Program  
Tompkins Community  
Action  
Tompkins County  
Mental Health Assoc.  
Towanda Area  
Elementary  
TST BOCES  
TST BOCES  
Adult ESL Program  
Tuscarora  
Elementary School  
University of Rochester  
Van Dyke ATC  
Virgil Elementary  
Waverly Elementary  
Wayne County Gem  
and Mineral Club  
Wells College  
Westhill High School

**Fall Creek Scientist in  
Residence**  
In May 2010 PRI carried  
out its first ever

“scientist-in-residence”  
program with Ithaca’s  
Fall Creek Elementary.  
The program took the  
place of the school’s  
more traditional science  
fair, in an effort to make  
an equitable, science-  
based activity in which  
all students had an  
opportunity to work on  
real science projects with  
real scientists.  
Kindergarteners learned  
about dinosaurs, 1st &  
2nd graders worked with  
their 5th grade “buddies”  
to examine ice age life,  
while 3rd & 4th graders  
examined local  
Devonian fossils. Over  
the course of this  
program, PRI staff  
worked with a total of  
215 students for a total  
of 35 contact hours. This

program was funded  
through teacher grants  
from the Ithaca Public  
Education Initiative and  
the Fall Creek PTA.

## **Kids Discover the Trail!**

The Museum of the  
Earth is a member of the  
Discovery Trail: a group  
of educational  
organizations based in  
Ithaca, NY that promote  
awareness and  
understanding of the  
connections among art,  
history, literature,  
science, and the natural  
world. Every year, each  
grade in Ithaca City  
School District from pre  
K-5 students visit a  
designated Discovery  
Trail site. At that site  
they receive instruction

from the center’s  
educator, on topics  
ranging from art to  
paleontology, as part of  
the “Kids Discover the  
Trail!” program (KDT!).  
In addition to  
enhancement of relevant  
classroom curricula, the  
programs serve as a  
social medium by which  
students from different  
elementary schools  
meet, with the hope that  
this will make their  
transition from 8  
elementary schools –  
ranging from rural to  
urban – to 2 middle  
schools easier. The  
Museum of the Earth  
provides the 1st grade  
program Dinosaur  
Science. The students  
also rotate through  
staffed stations

throughout the Museum  
to look at key points in  
Earth history. Before  
coming to the Museum,  
each of the classes  
receives a pre-visit to  
introduce students to the  
Museum and to talk  
about the book (Digging  
Up Dinosaurs by Aliki)  
each of the students  
receive as part of this  
program. This year 474  
students and 27  
chaperones attended the  
Museum through the  
KDT! program. Due to  
previous success of this  
program, Trumansburg  
Schools created a sister  
program called the  
Trumansburg Kids  
Explorer & Discover  
(TKEDs), which began  
this year.





Empowering educators with the latest scientific theories and research—as well as the best practices for presenting that research in the classroom—is a primary mission of PRI outreach. Scientific literacy is increasingly important in today's society, and there is no better way to reach large numbers of students than to reach their teachers. PRI possesses a series of programs dedicated to bringing real science to teachers in New York and across the nation. In this role, PRI is actively engaged in imbuing future generations with an awareness and interest in science. Many of the below programs are described more fully on other pages.

- PRI's annual *Teacher Resource Day* was held on October 3rd, 2009: Over the course of the day, 85 teachers from Ithaca and across New York State received actual fossil specimens (deaccessioned from the PRI research

collections), were treated to behind-the-scenes tours of PRI collections, and learned how to use their new-found specimens in the classroom.

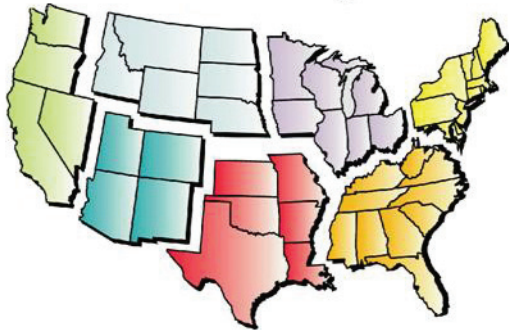
- Resources to help teachers learn and teach their local Earth science: PRI offers through workshops, *Teacher-Friendly Guides* to regional Earth system science, and a database of Virtual Fieldwork Experiences
- Resources to help teachers with evolution education: *Teacher-Friendly Guides* to evolution and associated teacher kits, e.g., using bivalves to demonstrate evolutionary principles and another guide on the evolution of maize through domestication
- *Fossil Finders*, in collaboration with the Cornell Department of Education

- *Climate Change in Your Backyard*, in collaboration with Cornell Cooperative Extension 4-H and Cornell's Department of Earth and Atmospheric Sciences
- Teacher workshops in collaboration with colleagues at Cornell University, such as the Cornell Institute for Biology Teachers
- *Trilobites and Treetops* teacher workshop, in collaboration with the Cayuga Nature Center

These programs all reflect research-based, best-practices professional development that engages educators in long-term inquiry projects using the local environment as a teaching laboratory. Importantly, all of these projects also nurture both leadership development and the building of educator networks.



## Teacher Friendly Guides



Teaching Earth system science in the field—beyond classroom walls—is not only incredibly effective, but also necessary in order for students to properly understand our planet and the forces that shape it. Fulfilling a tremendous need within Earth science education, PRI staff are working with teachers across the country to help them introduce local Earth system science into their classrooms.

The national series of regional *Teacher-Friendly Guides* is a curriculum supplement that will provide teachers with the content and background to introduce local Earth system science to their students, vastly increasing the relevance of Earth science in their lives. The Northeast and Southeast Guides are complete, the South Central guide is nearing completion, and the Western, Midwestern, Rocky Mountain, and Southwest guides will be completed in

the coming years. Visit [teacherfriendlyguide.org](http://teacherfriendlyguide.org) to view the completed guides and previews of those upcoming.

Virtual Fieldwork Experiences (VFEs) are virtual re-creations of actual field sites that allow students to do real science at a distance; they bring the field into the classroom. By creating VFEs, teachers are not only collaboratively building rich curriculum resources, they are also engaged in the careful study of their local Earth system science with an eye toward field-based inquiry for their students. The creation and use of VFEs is being incorporated into a range of PRI's outreach activities. Please visit [virtualfieldwork.org](http://virtualfieldwork.org) for more!

As we develop the guides and VFEs, PRI staff are leading professional development opportunities for teachers across the country. During workshops,



teachers are trained to document a particular field site in order to ultimately create a VFE for the classroom. They are then encouraged to create VFEs based on areas near their schools, producing a product that will help students understand the immediate relevance of Earth system science. For example, in July of 2009, teachers from the South Central region gathered with PRI staff in Norman, Oklahoma; we then worked with these teachers remotely throughout the school year. Teacher input roundtables were held with teachers in Chicago (March 2010) and San Diego (April), and additional workshops were held in San Antonio (June), and in Oregon and Michigan (July).

### Fossil Finders

The Fossil Finders project, in collaboration with Cornell's Department of Education, engages

students in classrooms across the country in an authentic investigation of central New York Devonian fossils. The project develops curriculum and resources, and an interactive website, for upper elementary and middle school students and their teachers. In August 2009 we ran a second workshop for 10 teachers from around New York State and the first of two workshops for 20 teachers from around the country. The students collect data on fossils (nearly 6000 specimens by end of FY10) that they can use to investigate the response of fossil organisms to Devonian environmental change. The end goal of Fossil Finders is to improve teacher and student understanding of geological and evolutionary concepts, and of the nature of science.



### Professional Development for Museum Educators

In an effort to address the need for quality Earth system science professional development for the thousands of informal educational venues across the United States, PRI has developed a 10 week, one credit, graduate-level course for museum and science center educators. The course, taught entirely online and asynchronously, is titled “*Global Climate Change and Earth System Science*” and is supported by a grant from the Earth System Science Education Alliance (ESSEA), an NSF/NASA/NOAA funded organization, which supports more than 40 universities across the country in offering a series of online Earth system science courses for K-12 teachers. This course represents ESSEA’s first professional development for informal educators,

and fall 2009 was the third consecutive year that PRI/ESSEA have offered this course

The 2009 course had 9 participants—including our first Zoo and Aquarium—ranging geographically from the Aerospace Museum of California, Point Defiance Zoo (WA), Brookhaven National Labs (CT), The Carnegie Museum (PA), to Nauticus Maritime Ctr (VA). Again, we also had international participation; a Cornell student working in the Bangalore National Preserve, India. The resulting VFEs from this class will be used by the participants in their respective organizations, and will be made available to other venues as well as for use by formal educators across the U.S.



### Cayuga Nature Center

PRI continues to collaborate with the Cayuga Nature Center, located just a few miles from the PRI campus in Ithaca. The Summer Day Camp, with campers spending time at both CNC exploring the outdoor world and at the Museum of the Earth learning about the ancient world, has continued to be very successful. Summer 2009 saw a

record breaking number of campers and overwhelmingly positive feedback from participants. Other collaborations include day camps in the fall, winter, and spring, a series of programs entitled “Family Adventures in Nature,” and teacher professional development opportunities. *A Field Guide to the Cayuga Lake Region* by James Dake, a product of the PRI/CNC partnership, was released, and sales were high enough to require a second printing.



**Permanent Exhibit Upgrades**

*Preparation Laboratory and Scanning Electron Microscope.*

In FY2010 we made many changes to PRI's Preparation Laboratory ("Prep Lab," the lab space in the Museum that demonstrates fossil preparation to visitors). A generous gift from Board Member Don Wilson has permitted many changes that improve the look of the lab and, more importantly, the safety for those working in the space. The room was

reconfigured to allow visitors clearer view of specimens. Lab chemicals are now housed within a new chemical cabinet, and a ductless fume hood provides a safe space for the mixing of chemicals. A new workstation for the air abrasive unit (a tool that acts like a sandblaster, using compressed air to blow gritty particles that flake away tiny pieces of rock to expose fossils) provides improved lighting. Perhaps the most significant improvement is the acquisition of a dust collector; the collector vastly improves the safety of the lab by replacing the very noisy

vacuum that had been used in the lab for years. Finally, an airline dryer prevents moisture from accumulating in the hose that runs from the compressor to the tools in the lab, protecting equipment to ensure increased lifespans.

An NSF-funded SEM workstation was added to the Lab in April 2010. Full installation with ability for visitors to view microscopy as its done will be added in FY2011.

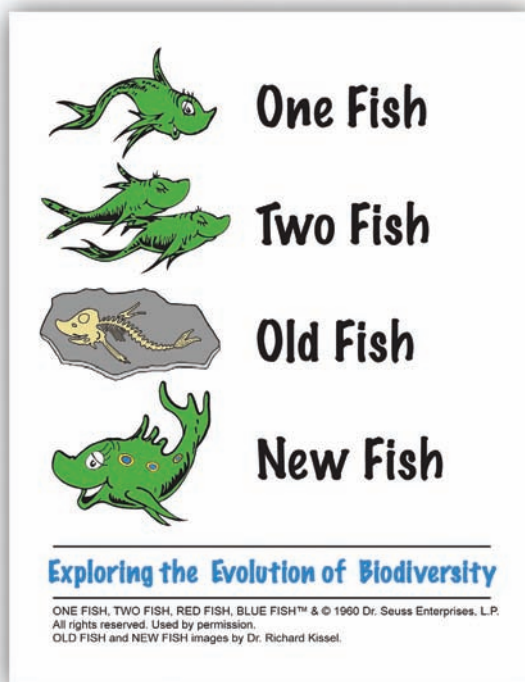


**Borg Warner Gallery Temporary Exhibitions**

*A Forest Journey* (June 20-September 20, 2009) This exhibition was designed and developed by the Franklin Institute Science Museum in Philadelphia, and was rented by PRI. It explored the science behind the trees and human relationships (past, present, and future) with forests. Accompanying programming helped focus the exhibition on the beauty of our regional forests, with our "Wednesdays in the Woods" and our marketing efforts targeted at the many visitors to our local State Parks.

*Ancient Amber: Letting the Past Shine Through* (October 3, 2009- February 21, 2010) This long awaited temporary exhibition featured some of the fabulous gems of our permanent collection. The exhibition was designed in house and David Grimaldi from the American Museum of Natural History (AMNH) served as content specialist. The exhibition looked at the geographic distribution, process of formation, historical and scientific appreciation of amber. Exhibition highlights included a few choice specimens on loan from AMNH and a short video





produced in house that chronicled the formation of amber. It also featured a micro CT scan of a cricket trapped in copal, compliments of the lab of Jonathan Butcher in Biomedical Engineering at Cornell University.

*One Fish, Two Fish, Old Fish, New Fish: Exploring the Evolution of Biodiversity* (March 6- September 12, 2010) As 2010 marks the International Year of Biodiversity, *One Fish, Two Fish, Old Fish, New Fish...* contributed to this international celebration of life on Earth and emphasized the value that

biodiversity has in our lives. The exhibition was made possible by with funding from the National Science Foundation support grant 0639904 to Richard Harrison, Department of Ecology and Evolutionary Biology, Cornell University. Harrison was involved in the entire exhibit development process from concept design to implementation. A few of the exhibition highlights include live *Laupala* crickets from the lab of Kerry Shaw in the Department of Behavior and Neurobiology at Cornell University; live Anole lizards from the lab of Richard Glor, a

Cornell undergraduate alum and faculty member of the Department of Biology at RIT; and live munba cichlids native to Lake Malawi in East Africa.

#### Temporary Art Exhibitions

*Sculpting Human History.* John Gurche, our resident paleoartist, completed his major Smithsonian commission of life-sized bronze sculptures of ancient hominins. Visitors watched the process in a temporary studio built into the Museum lobby, from start of the sculptures as clay over wire frames to casting of the sculptures in the

fall of 2009. The bronzes are now on permanent display at the newly opened Hall of Human Origins at the National Museum of Natural History. The studio was a fantastic opportunity to showcase scientific understanding of human evolution displayed in art.

*Wood Sculpture* by June Szabo (June 20 - September 20, 2009). Local Artist June Szabo's work was displayed in the Borg Warner and Education galleries. The show featured three-dimensional representations of landscapes and complemented the

summer's temporary exhibition *A Forest Journey*. In the artist's words, "we are bound and interwoven into the living process of the earth. Inexplicably we are intertwined and unable to escape those connections any more than we can escape breathing air. Art is my way of examining our relationship to nature, to the earth and to each other."

*Biomorphic* by Gregory Brellochs. (October 3, 2009- February 21, 2010) The work of Philadelphia-based artist Gregory Brellochs, Professor of Sculpture and Design at Camden County College, was



displayed in the Education gallery. His work explores an intersection of art, science and philosophy through visual experience. The images in the exhibition were selected by the artist from a body of work entitled "Materialization Series." They developed as a result of his exploration of a responsive process of art making aimed at the formal embodiment of concepts in an image.

The Exhibits department worked on the phased deliverables of three traveling exhibit projects during this

fiscal year. These include: *Science on the Half Shell: How and Why We Study Evolution.*

The Bivotol (Bivalves—Assembling the Tree of Life) exhibition is moving forward. During the last fiscal year we completed the concept development and schematic design phase of the exhibition. The project fabricators, Universal Services Associates, Inc., USA, Inc. (Colwyn, PA), are managing the project, but subcontracted Metcalfe Architecture (Philadelphia) to lead the

design phase. The exhibit was developed in order to open at the Museum of the Earth in September 2010.

*My Climate, My Community.* An NSF-funded planning grant is allowing PRI to lay the groundwork for the design and development of a small traveling exhibition on climate change. The exhibition will specifically target rural audiences that do not seek climate change information in traditional ISE venues. The project has additional funding support from the Park

Foundation for installing the exhibit in Tompkins County. A formal survey will be conducted by the Human Dimensions research group at

Cornell University in FY11. The survey will guide content and design of exhibit prototypes evaluated during fall 2010.

**SCIENCE  
ON THE  
HALF  
SHELL**



*How and why we study evolution*



Recognizing that we exist in an increasingly “smaller” world, PRI’s education programs are designed to bridge the gap from what’s local to what’s global, with a significant portion of our outreach nationally relevant. Among our most nationally relevant programs, PRI is involved in:

- **Teacher professional development** such as through the publication of our Teacher Friendly Guides on regional geology, encouraging Earth science teachers to use the local environment as a primary teaching tool for all regions of the country.
- Leading the charge in informal Earth science education by

**training museum docents** on how to most effectively teach evolution to a wide range of audiences, by offering graduate-level courses for informal Earth science educators from around the world, and creating a central website for resources at [www.informalearthscience.org](http://www.informalearthscience.org).

- **Collaborating** with nationally recognized institutions like Cornell University, the Denver Museum of Nature and Science, the Field Museum of Natural History, and Harvard University Museum of Comparative Zoology on a variety of education initiatives, many of which are funded by the National Science Foundation. PRI collaborated internationally, with

specimen loans and design of exhibit components and evaluation, with the University of Modena, Italy, for their “Darwin and Evolution” exhibition.

- **Innovation** in approaches to education, local implementation of national models such as development of hands-on Discovery Labs in the Museum, the use of “Virtual Fieldwork Experiences,” and research partnerships with students and teachers.
- Focusing on major issues in science education through our **Global Change Project** and our **Evolution**

**Project**, sharing best practices with formal and informal educators from across the United States and beyond.

- Bringing Earth science to all by **reaching underserved audiences** through exposure to science and natural history collections, helping all gain a better appreciation of the world we share.
- **Involvement in national efforts** to improve and expand Earth science education, such as the Earth Science Literacy Initiative, the Climate Literacy Network, the Conceptual Framework for New Science Education Standards, and the K12 Earth System Science Education Summit.





**National Science Foundation Discovery Research K-12**

(FY2008): Enhanced Earth system teaching through Real Earth Inquiry: NSF DRL733303, Aug 15, 2007 – Aug 14, 2012, \$1,763,588 (PI: Ross; co-PIs: D. Duggan-Haas, S.E. Humbert)

**National Science Foundation Discovery Research K-12**

(FY2008): Fossil Finders: Using Fossils to Teach about Evolution, Inquiry and Nature of Science: NSF DRL 733223, Jan 1, 2008 – Dec 31, 2011, \$1,491,746, \$266,951 to PRI. (PI: B. Crawford,

Cornell Dept of Education; co-PIs: R. Ross, W. Allmon)

**National Science Foundation** (FY2008) AToL: Phylogeny on the Half-shell -- Assembling the Bivalve Tree of Life, NSF DEB 732860, Sep 15, 2007 – Aug 31, 2012, \$499,990 (PI: Paula Mikkelsen; co-PIs R. Ross, S.J. Chicone)

**Earth System Science Education Alliance (pass-through for NASA and NSF**

**Geoscience Education)**(FY2008) **Global Climate Change and Informal Earth System Science** [online professional

development for informal educators], June 1, 2008 – May 31, 2010, \$39,945 (PI: Carlyn Buckler: co-PI; R. Ross, Rusanne Low of GLOBE)

**National Science Foundation**(FY2008)

Temporary Museum exhibit on speciation and biodiversity associated with speciation research DEB 0639904, \$41,974 (PI: Rick Harrison of Cornell Univ.)

**National Science Foundation** (FY2008)

Traveling exhibit and teacher professional development on evolution of maize,

associated with maize genetics research. (DBI 0820619, \$110,000 (PI: Ed Buckler of Cornell Univ.)

**National Science Foundation Geosciences**

**Division**(FY2007): Expansion of hands-on inquiry-based interactive labs in Museum of the Earth. GEO 608062, Oct 1, 2006 – Sep 30, 2008, \$141,903 (PI: R. Ross, co-PIs: M.A. Sax, S.E. Humbert)

**National Science Foundation EHR**

**Division** (FY2007): Integration of PaleoPortal Website, a

Paleontology Website for both Researchers and the Public, into Museum Exhibits and Classrooms. EAR 552201, Jun 6, 2006 – Jun 5, 2008, \$56,535 (PI: R. Ross)

**National Science Foundation Geosciences**

**Division**(FY2008): Tracking Climate in Your Backyard: Climate education for 4-H educators & youth., GEO 808122, Sep 15, 2008 – Sep 14, 2010, \$148,455 (PI: R. Ross, co-PI: S. Sands, A. DeGaetano, B. Schirmer)

**National Science Foundation Geoscience Division**

(FY2009): Planning for a charter school-university-museum partnership to enhance diversity in the geosciences: NSF GEO 0939765, October 1, 2010 – September 31, 2011, \$39,055 (PI: R. Ross; co-PIs: R. Kissel, D. Duggan-Haas)

**National Science Foundation Geoscience Division**

(FY2009): Geoscience education for communities impacted by gas drilling in the Marcellus Shale: NSF GEO 1016359, April 15,



2010 – March 31, 2011, \$97,127 (PI: R. Ross; co-PIs: T. Smrecak, T. Jordan, L. Brown)

**National Science Foundation Informal Science Education** (FY2009): My Climate, My Community: Sustainable Climate Change Exhibits for Rural Audiences: NSF ISE 0917581, September 1, 2009 – August 31, 2011, \$74,346 (PI: S. Chicone; co-PIs: R. Ross, T. Smrecak, S. Sands)

**National Science Foundation Earth Science Instrumentation and Facilities** (FY2009):

Acquisition of a New Generation Benchtop SEM for Earth Systems Research, K-16 Education, and Public Outreach. NSF EAR 0930032, \$110,000 (PI: R. Ross; co-PIs: W. Allmon, P. Mikkelsen, G. Dietl)

**Cornell Cooperative Extension Smith-Lever** (FY2009): Understanding the environmental, social, and economic impacts of gas exploration and drilling in the Marcellus Shale: NYC-124481, October 1, 2009 – September 30, 2012, \$69,000 (PI: W. Allmon; co-PI: R. Stedman, R. Ross, S. Riha)

**Park Foundation** (FY2009): My Climate, My Community: Exhibits and public forums on climate change for rural Tompkins County. July 1, 2009 – June 30, 2011, \$36,000 (PI: S. Chicone, co-PIs: R. Ross, T. Smrecak)

**Education Publications and Presentations**

**Allmon, W. D., T. A. Smrecak, & R. M. Ross. 2010.** Climate Change – Past, Present, & Future: a Very Short Guide. Paleontological Research Institution, Ithaca, New York, 200 pp.

**Auer, S., & D. Duggan-Haas. 2009.** Bringing Fieldwork to the Classroom. Science Teachers' Association of New York State, Rochester, New York.

**Auer, S.L., Besemer, C., Duggan-Haas, D., Kissel, R.A., and Ross, R.M., 2009,** Virtual Fieldwork Experiences: Bringing Inquiry-Based Exploration of Earth Systems in the Classroom. Geological Society of America Abstracts with Programs, Vol. 41, No. 7, p. 385

**Auer, S. 2009. Book Review: Darwin for kids in 2009:** a review.

American Paleontologist, 17(4): 20-21.

**Buckler, C. S., & R. M. Ross. 2009.** ESSEA course for informal ESS educators. Annual Earth System Science Education Alliance meeting, 15-19 June, Biosphere 2, Oracle, Arizona.

**Crawford, B.A., D. Capps, D. McCullough, X. Meyer, D. Ortenzi, & R. Ross, 2009,** Fossil Finders: Closing the circle of authentic scientific research and inquiry-based pedagogy: Teachers, scientists, and science educators in a community of

learners. (poster)

**National Association for Research in Science Teaching Conference,** Garden Grove, CA April 17-20 2009

**Crawford, B.A., Capps, D.K., Ross, R.M., and Smrecak, T.A. 2010,** Developing teachers' science content and pedagogy through an authentic fossil investigation. National Science Teachers Association National Conference Program, Philadelphia (program 1, p.140)





**Dake, J. 2009.** Field Guide to the Cayuga Lake Region. Paleontological Research Institution, Ithaca, New York, 152 pp.

**DiMatteo, J.A., Ross, R.M., Crawford, B.A., Capps, D.K., Smrecak, T.A. 2010.** Using Devonian fossils to connect science content across the curriculum. National Science Teachers Association National Conference Program, Philadelphia. (Program 3, p.118)

**Duggan-Haas, D. 2010.** Profound ideas about the Earth system. National Science Teachers' Association

Annual Meeting, Philadelphia, Pennsylvania.

**Duggan-Haas, D. 2010.** Profound ideas about the Earth system. Western New York STANYS Mini-Conference, West Seneca, New York.

**Duggan-Haas, D., & C. Buckler. 2009.** Virtual fieldwork experiences: real inquiry in virtual environments. Earth System Science Education Alliance annual meeting, Oracle, Arizona.

**Duggan-Haas, D., & S. Clark. 2009.** Forest for the trees: Earth systems science literacy

initiatives and the need for a smaller integrated set of principles. Geological Society of America Annual Meeting, Abstracts with Program, 41(7): 712.

**Duggan-Haas, D., Kissel, R.A., Besemer, C., Auer, S.L., Buckler, C.S., and Ross, R.M., 2009,** Virtual Fieldwork and Teacher Professional Development. Geological Society of America Abstracts with Programs, Vol. 41, No. 7, p. 502

**Duggan-Haas, D., S. R. Miller, & J. Henderson. 2009.** What if we only taught five things? Focusing Earth science

instruction on bigger ideas. Science Teachers' Association of New York State, Rochester, New York.

**Kissel, R.A. 2010.** Cecil's Colossal Journey Through Time! Coloring & Activity Book. Paleontological Research Institution, Special Publication No. 39.

**Kissel, R.A. 2010.** From ring finger to wing finger. American Paleontologist, 18:2.

**Kissel, R.A. 2010.** What big teeth you have. American Paleontologist, 18:1.

**Kissel, R.A. 2009.** A sail of a tail. American Paleontologist, 17:4.

**Kissel, R.A. 2009.** The science of hyperbole. American Paleontologist, 17:3.

**Kissel, R.A. 2009.** Dogs get their day. American Paleontologist, 17:3.

**Meyer, X., Crawford, B.A., Capps, D.K., Ross, R.M., Valenciano, M. 2010,** Investigating fossils using inquiry for English Language Learners. National Science Teachers Association National Conference Program, Philadelphia. (Program 3, p.86)

**Ross, R. M., & D. Duggan-Haas. 2010.** Big ideas in Earth system science. American Paleontologist, 18(1): 24-28.

**Ross, R. M., D. Duggan-Haas, R. A. Kissel, S. L. Auer, C. Besemer, & E. S. Chapman. 2009.** Enhanced Earth system teaching through regional and local (Real) Earth inquiry. National Science Foundation Discovery Research K-12 PI meeting, Washington, DC.





**Ross, R.M., Scotchmoor, J.G., Kaufman, S., 2009,** PaleoPortal Site Generator for generation of Free Custom-Made Hypertext Documents on Regional Geological and Paleontological History. Geological Society of America Abstracts with Programs, Vol. 41, No. 7, p. 487

**Ross, R.M., Smrecak, T.A., Crawford, B.A., Capps, D.K., DiMatteo, J., 2010,** Changing Seas, Changing Life: Paleontological Research with Student Participation. NESTA Session: Advances in

Earth and Space Science Lecture, National Science Teachers Association Conference Program, Philadelphia (Program 3, p.74)

**Smrecak, T., 2010,** Geology of the Marcellus Shale: A Paleontological Perspective on a Modern Resource. [www.museumoftheearth.org/outreach.php?page=92387/352042](http://www.museumoftheearth.org/outreach.php?page=92387/352042)>

**Smrecak, T. 2010** Tracking Climate in Your Backyard Curriculum. Paleontological Research Institution:

Ithaca, NY, 82 pp. [www.museumoftheearth.org/files/Outreach/tciyb/Tracking\\_Climate\\_Curriculum](http://www.museumoftheearth.org/files/Outreach/tciyb/Tracking_Climate_Curriculum)>

**Smrecak, T. 2010.** Book Review: Climate change for younger readers. American Paleontologist, 18(1): 13.

**Wyssession, M.E., Budd, D.A., Conklin, M.A., Kappel, E., LaDue, N., Raynolds, R.G., Ridky, R.W., Ross, R.M., Tewksbury, B.J., and Tuddenham, P., 2009,** Earth Science Literacy Principles: A Geocommunity Consensus, Geological

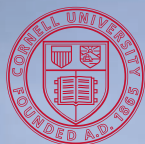
Society of America Abstracts with Programs, Vol. 41, No. 7, p. 98

**Wyssession, M E, Budd, D A, Campbell, K M, Conklin, M H, Kappel, E S, LaDue, N, Lewis, G, Raynolds, R, Ridky, R W, Ross, R M, Taber, J, Tewksbury, B J, Tuddenham, P, 2009,** The 2009 Earth Science Literacy Principles, Eos Trans. AGU, 90(52), Fall Meet. Suppl., Abstract ED33A-0550

**Yacobucci, M.M., R. Lockwood, B.J. Tewksbury, B.J. McFadden, and W.D. Allmon. 2009.** Teaching

paleontology in the 21st century: Resources for teaching paleontology at the undergraduate level. Geological Society of America Annual Meeting, Abstracts with Program, 41(7): 455.





Cornell University

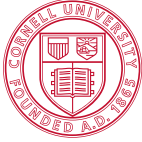


PRI was founded in 1932 by Gilbert D. Harris (1864-1952), Cornell University class of 1885 and a professor of geology at Cornell from 1895-1934, to preserve his large fossil collection and library, continue his scientific printing enterprise, and serve as a scientific home for independent researchers in paleontology. Despite his close ties to Cornell, Harris' parting from the University was not a friendly one, and the estrangement it established lasted well beyond his lifetime.

In November, 2004, PRI and Cornell signed a formal affiliation agreement that recognized the growing ties between both institutions. While not officially a part of Cornell, and receiving no regular financial support from the University, PRI interacts with numerous units and members of the Cornell community in a wide variety of ways.

#### Public Education Outreach

- PRI's Education Department and its Museum of the Earth help fulfill Cornell's land-grant mission to serve (as Cornell President David Skorton put it in his inaugural address) "the world outside our gates."
- PRI staff are regular members of the STEM (Science Technology Engineering Math) group which coordinates pre-college outreach at Cornell.
- PRI played a leading role in organizing the first annual Ithaca Darwin Day celebration in February, 2006, which featured events at PRI and Cornell in celebration of the birthday of Charles Darwin. The Darwin Days celebration has grown in each of its five years.
- The Museum is a conduit for presenting the results of Cornell faculty and student research – especially for the Department of Earth and Atmospheric Sciences -- to the general public through exhibits, programs, and publications.
- PRI staff work with Cornell Cooperative Extension (CCE) on several projects, including most recently Climate Change and the Marcellus Shale, to expand the range for content provided to 4-H and CCE programs across New York State.



Cornell University



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## Undergraduate Education

- The Museum of the Earth is a regular resource for Cornell undergraduate courses in biology, geology, anthropology, and art.
- PRI collections staff are a resource for Cornell undergraduates engaged in independent research, including recent senior projects in the Department of Earth and Atmospheric Sciences (EAS), Ecology and Evolutionary Biology, Anthropology, and Fine Arts.
- PRI staff regularly teach undergraduates in EAS and the Department of Ecology and Evolutionary Biology.
- Paleontology is inherently interdisciplinary. By bringing together faculty, staff, students, and collections from disparate fields, PRI and its Museum of the Earth serve as a stimulus for what President Skorton termed "interdisciplinarity" – linking people and programs at Cornell that would otherwise not interact as much.

## Graduate Education

- Three PRI staff are members of graduate faculties at Cornell and advise Ph.D. students. PRI's Director has served as a major advisor for seven Ph.D. students in the fields of Zoology and Geology.

## The Hunter R. Rawlings III Professorship in Paleontology

Hunter Rawlings served as the tenth President of Cornell University from 1995 to 2002 and as Interim President from 2005 to 2006. During his time at Cornell, Rawlings took leadership positions on a number of issues that are directly relevant to PRI's mission. In particular, in October, 2006, Rawlings gained national recognition when he used his State of the University speech to focus on the issue of evolution and intelligent design (ID), drawing attention to the dangers to education and civil society posed by ID masquerading as science. This issue is at the core of several of PRI's educational initiatives.

In March, 2006, then Interim President Rawlings was instrumental in discussions between the PRI Board of Trustees and the Cornell administration that resulted in an agreement to establish the position of Director of PRI as an endowed full professor position in Cornell's Department of Earth and Atmospheric Sciences, provided that funds could be raised by PRI to provide for such an endowment. In May, 2007, Rawlings agreed to allow the position to be named in his honor. PRI Director Warren Allmon now serves as the first Hunter R. Rawlings III Professor of Paleontology in the Department of Earth and Atmospheric Sciences at Cornell.

## Other Faculty Appointments

In addition to the Rawlings Professorship, which is permanently connected to the PRI Director position, three other current individual PRI staff have formal faculty appointments at Cornell:

- Director of Collections Greg Diel is Adjunct Assistant Professor in the Department of Earth and Atmospheric Sciences and a member of the graduate field of Geology.
- Associate Director for Outreach Rob Ross is Adjunct Associate Professor in the Department of Earth and Atmospheric Sciences.
- Associate Director for Science Paula Mikkelsen is a Visiting Fellow in the Department of Ecology and Evolutionary Biology.



PRI is a national leader in Earth science education due not only to the efforts of its staff. It is also because of the foresight of a community that generously supports PRI's educational mission. Everything that is PRI, from its scientific research and collections to its publications, programs, and exhibits, owes itself to those whose direct financial support make it possible. In the year covered by this report, PRI passed its Annual Fund goal while resurrecting its Planned Giving program. As we continue to build a strong foundation of support going forward, we owe our sincere thanks to all those who made a gift – your support matters!

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Alfred & Gabriele Weber  
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Valerie Weber

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– Tile 44

Merle Adelman  
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Barbara Page  
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Heritage Museum  
Rachel Philipson  
Photography & Design  
The Pilates Room  
Quintessence Massage  
& Wellness  
Rochester Museum  
of Science  
Rockwell Museum of  
Western Art  
Michael Sampson  
Satori  
Railey Jane Savage  
Sciencenter  
Sheldrake Point  
Sheryl Sinkow  
Six Mile Creek Vineyard  
Starbucks  
Statler Hotel  
@Cornell University  
Tanglewood Nature  
Center & Museum  
Taughannock Farms Inn  
WSKG Public TV  
& Radio  
Bill & Wende Young

**The following people made memorial or honorary gifts in the year covered by this report:**

In Honor of  
Warren Allmon:  
Jean McPheeters

In Honor of  
Marla Copolino:  
Karen Eldrege

In Memory of  
J. Thomas Dutro, Jr.:  
Michele Aldrich  
Warren Allmon  
Judy Back  
Arthur Boucot  
F.D. &  
Margine Holland  
Charyl Ito  
David Stewart  
John Waters  
Abby Yochelson

In Memory of  
Brian O'Neill:  
Teresa O'Neill

In Honor of  
Hunter Rawlings:  
Tompkins Trust  
Company

**MEMBERSHIP**

**Life**

Bruce Abbott  
Robert Abrams  
Merle Adelman  
Michele Aldrich  
John Allen  
Vauda Allmon  
Warren Allmon  
John Armentrout  
Gordon Baird  
Beverly Baker  
Christina Balk  
Chris Ballentine  
David Banfield  
David Barr

Henry Bartels  
Philip Bartels  
Larry Baum  
Bruce Bell  
Paul Benedum  
John Bird  
Richard Boardman  
Hans Bolli  
Esther Bondareff  
David Bottjer  
James Brown  
Percy Browning  
James Bugh  
John David Bukry  
Sybil Burger  
Lyle Campbell  
John Carter  
Larry Cathles  
Kenneth Ciriacks  
Emily Cobabe  
James Cordes  
Sarah Cormier  
John Cottrell  
Robert Cowie  
William Crepet  
Thomas Cronin  
Michael Degenhart  
Nelson Delavan  
John Dupont  
Susan Dutro  
Christopher Dutro  
Shirley Egan  
Anton Egner  
Thomas Eisner  
Richard Erickson  
J. Mark Erickson  
Susan Ettinger  
Francille Firebaugh  
David Flinn  
Joanne Florino  
Barbara Foote  
Eugene Fritsche  
James Gardner  
Ernest Gilmour  
Keefe Gorman  
Lee Gray  
Steven Hageman  
M. G. Harasewych  
Anita Harris  
Howard Hartnett  
Patricia Haugen  
Carole Hickman  
Walter Hodge  
Robert Hoerle

John Hoffman  
F. D. Holland  
Bob Horn  
Fred Hotchkiss  
Jay Hyman  
David Jablonski  
Patricia Johnson  
Richard Johnson  
Sylvester Johnson  
David Jones  
Peter Jung  
Tomoki Kase  
Patricia Kelley  
David Kerr  
William Kier  
Karen Kleinspehn  
William F. Klose, II  
Jiri Kriz  
Ralph Langenheim  
Harry Lee  
Harry Leffingwell  
Egbert Leigh  
Gerard Lenhard  
David Linsley  
William Lyons  
Michael Manfredi  
Christopher Maples  
Louie Marincovich  
Donald McJunkin  
Peter McLaughlin  
William Miller  
Thomas Missimer  
William Morrill  
Susan Murphy  
Paul Myrow  
Shuji Niko  
Hiroshi Noda  
Gilbert Norris  
Sakae O'Hara  
Kevin Padian  
Barbara Page  
Roy Park Jr.  
Dorothy Park  
Adelaide Park Gomer  
William Perks  
Paula Peter  
Richard Petit  
Edward Picou, Jr.  
Robert Pohowsky  
John Pojeta Jr.  
John Pope  
Phil Proujansky  
John Pursley  
Marion Raymond

Anthony Reso  
Frank Rhodes  
Harold Rollins  
Arnold Ross  
LouElla Saul  
John Scherer  
Judith Schiebout  
Roger Segelken  
Bruce Selleck  
Mary Shuford  
Edward Slagle  
Robert Sloan  
Constance Soja  
James Sorauf  
David Stansbery  
John Steinmetz  
Peter Stifel  
Andrew Stifel  
Katherine Stifel  
Carl Stock  
Svend Stouge  
David Taube  
Barbara Toomey  
Mack Travis  
Jorge Valdes  
Leigh Van Valen  
William Ventress  
Geerat Vermeij  
Emily Vokes  
Gregory Wahlman  
Thomas Waller  
Gloria Warren  
Bryan Warren  
Arthur Waterman  
Gary Webster  
Daniel Wegman  
Keren Wells  
Thomas Whiteley  
Ralph Willoughby  
Armour Winslow  
Gary Woloszyn  
Thomas Yancey

**Curator Circle**

Gene Yarussi

**Explorer Circle**

Peter Thomas  
Glenn Allen  
Richard Alvord  
Nan Arens  
Sherry Auble

Edward Baldwin  
Robert Barlow  
Susan Boettger  
Linda Brisson  
K. Bingham Cady  
Paul Debbie  
Natalie Detert  
Stephen Emlen  
Chris Engst  
Ralph Feldhake  
A. James Felli  
Jim Fogel  
Dan Governanti  
Mona Gracen  
Edward Grandt  
Nelson Hairston  
John Handley  
Richard Harrison  
Edward Hart  
Fiona Hennig  
Robert Herdt  
Leah Horwitz  
Andrea Judson  
Kristna Kapur  
W. Keith Kennedy  
William Kirchgasser  
Donald Kress  
John Krout  
Lawrence LeClair  
Lillian Lee  
Fred Leff  
Brian Lehman  
Kristi Lehmann  
Henri Lese  
Abbe Lyons  
Michael Matteson  
William McAneny  
David McIlroy  
Jason Millsbaugh  
Katherine Nelson  
Osborne Nye  
Veronica Parsms-Zieba  
Roy Pollock  
Rasheen Powell  
Michael Pratt  
Elizabeth Rawlings  
Eric Riegel  
Michael Rogers  
Victoria Schaal  
David Schuller  
Rebecca Schwed  
Kirk Sigel  
James Spero  
Valerie Spiwak

George Stone  
Richard Strassberg  
Michael Sweet  
Joe Thomas  
Jeff Tonole  
Luz Trompa-Barrios  
W. Craig Tucker  
Jeffrey Tydings  
Melodie Valenciano  
Andrea Wetherbee  
Michael Whalen  
William Winkky  
Rochelle Woods  
William Zinsmeister

**Household Plus**

John Abel  
Michelle Alex  
Keith Baier  
Merry Jo Bauer  
Bob Beck  
Kaori Blalock  
Alison Christie  
Matthew Clark  
Julie Clougherty  
Luke Colavito  
Margaret Cook  
Caren Cooper  
Lucia Cowles  
Gerard Cox  
Mary Ellen Cummings  
Patricia Davis  
Carol DeGaray  
Frank DiSalvo  
John Driscoll  
Lois Ecklund  
Eugene Erickson  
Joe Falo  
Feldman Family  
Laura Gates-Lupton  
Roxanne Gaylord  
Peter Goodstein  
Linda Grace-Kobas  
J. Peter Gregoire  
Stephen Hand  
Paul Harvey  
Joan Hass  
Lisa Hatch DeLaOsaCruz  
Janet Hawkes  
Eric Hayes  
W. Graham Heaslip  
Bhuva Hemali  
Christopher Henley



# Development | Gifts

John Hermanson  
 Conrad Istock  
 Tracy Keel  
 Arthur Landi  
 R. Carolyn Lange  
 Peter LeVangia  
 Victoria Lines  
 Kenneth Miller  
 Susan Mueller  
 Robert NafisChris Pastel  
 Ritchie Patterson  
 Susan Robinson  
 Mickie Sanders-Jauquet  
 Michael Shay  
 Suzanne Shende  
 Larisa Shlahet  
 Roger Sibley  
 Mel Simmons-Rosen  
 Leah Solla  
 Stuart Staniford  
 Jessica Stewart  
 Miranda Strichartz  
 William Thurston  
 Robbert Vanrenesse  
 Michele Williams  
 Richard Wodzinski  
 Melissa Zarem

## Household

Govind Acharya  
 Roy Ackerman  
 Robert Adams  
 Barry Adams  
 Eric Alani  
 Laura Alexander  
 Richard Allen  
 Rich Andrulis  
 Pierce Archer  
 Dallas Aronson  
 Caryl Arsenault  
 Jasmin Astle  
 Daniel Bednarek  
 Ulla Berger  
 Eileen Berlow  
 Michelle Berry  
 Maureen Bickley  
 Alan Biloski  
 Amanda Bishop  
 Joseph Blood  
 Arthur Bloom  
 Bryan Boosz  
 Robert Bouchard  
 Anne Bower

James Boylan  
 Patricia Brenna  
 Philip Brown  
 Kim Buck  
 Ed Buckler  
 Dorothy Buerk  
 Elizabeth Bunting  
 James Busanus  
 George Casey  
 Polly Cator  
 Elizabeth Cherry  
 Li Chi  
 Vivek Chickermane  
 Akshay Chougaonkar  
 Jennifer Cleland  
 Roy Coats  
 Elissa Cogan  
 Patricia Coonrod  
 Thomas Cooper  
 David Corson  
 Denise Crast  
 Marnie Cryer  
 Karen Cunningham  
 Patricia Curran  
 Steven Daly  
 Laura Daly  
 Robert Dean  
 Stephen Deloreto  
 Noel Desch  
 Jerold DeSimone  
 Melissa Devendorf  
 Mary Diegert  
 Barbara Dimock  
 Duane Diviney  
 Eric Dixon  
 John Dopyera  
 Jeff Dubois  
 Richard Durst  
 Gary Dye  
 Sally Eller  
 Joe Ellis  
 Jennifer Estler  
 John Fahs  
 Rodney Feldmann  
 Michael Ferdinandso  
 Gail Finan  
 Martha Fitzgerald  
 Mark Fleischman  
 Brian Fowler  
 Glenn Galbreath  
 Michael Gallagher  
 Tim Gallagher  
 Dana Geary  
 Amy Geller

Jeff Gerbracht  
 Jennifer Germann  
 Maureen Getman  
 William Giraud  
 Terence Glasspool  
 Ted Goldwyn  
 Synnova Gooding  
 Francois Guimbretiere  
 Mary Guthrie  
 Kenneth Gwin  
 Josh Harben  
 Matthew Hare  
 Courtney Harris  
 George Hay  
 Kathleen Hefferon  
 Peter Herzberg  
 Laurel Hester  
 Thomas Hohn  
 Karla Hubbard  
 Frederick Immermann  
 Michael Ingiosi  
 Lawinna Ingold  
 Kathleen Isham  
 Jennifer Jolly  
 Antonia Jordan  
 Hojong Ju  
 J. Michael Keller  
 Peter Knuepfer  
 Evan Kopelson  
 David Kramer  
 Arlene Krebes  
 Diedre Kurzweil  
 Calvin Lange  
 William Lesniak  
 James Lloyd  
 Katherine Ludwig  
 Katrina Lui  
 Kathleen Mackenzie  
 John Maliwacki  
 Gigi Marks  
 Heather Marks  
 Russell Martin  
 Keith Martin  
 Ross Martin  
 Timothy Martinson  
 Erin McEwen  
 Jean McPheeters  
 Robert Meade  
 Philip Meyer  
 Ilya Minarov  
 Erika Molnar  
 William Moody  
 Justin Moore  
 Holly Morais

James Morin  
 Jonathan Morse  
 Alan Moster  
 Karen Munson  
 Nicole O'Connell-Avery  
 Erich O'Dell  
 Darcy Ormaechea  
 Catrina Oswald  
 Jason Ouellette  
 Katy Payne  
 Randy Pelton  
 Rachel Philipson  
 Lyn Pohl  
 Sigrid Popowitch  
 Frederick Pugliese  
 Andrew Rappaport  
 Ogoumi Yuuki Real  
 Suzanne Rebillard  
 Mary Reeve  
 Nelson Reppert  
 Robert Richardson  
 Paul Rickerl  
 Franklin Robinson  
 Andrew Rochester  
 A. J. Rubineau  
 Michael Sandritter  
 Howard Schenker  
 Shyeanne Schering  
 Dan Schwarz  
 Stacy Senecal  
 Richard Shaff  
 Len Sharp  
 Fred Sibley  
 Robert Sickler  
 John Sikora  
 John Sines  
 Roger Smith  
 Susanne Solomon  
 Norman Spear  
 Bruce Stark  
 Suzanne Summerville  
 Caroline Sussman  
 Harriet Sutherland  
 Daniel Thiel  
 Margret Thompson  
 Shawn Toffolo  
 Judith Van Allen  
 Thomas VanDerzee  
 Lisa VanOpdorp  
 Nicole Vergason  
 Dieter von Ahn  
 David Walsh  
 Jenn Walter  
 James Reid Waring

Christopher Way  
 Anita Welych  
 Russell White  
 William White  
 Charles White  
 Karl Wilson  
 Wendy Wolfe  
 Wendi Wu  
 Ivan Yalanzhi  
 Christopher Young  
 Mark Zabel  
 Felix Zifchock  
 Karin Zimba

## Student/Senior Dual

Lloyd Abrams  
 Edward Austen  
 Franklin Becker  
 David Benedict  
 Don Brion  
 Richard Burlew  
 Joseph Caezza  
 Peter Depew  
 Horton Durfee  
 Christian Haller  
 William Johnson  
 Mary Kritz  
 Edward Lawler  
 Howard London  
 John Maceli  
 Robert Manchester  
 Joseph Mayko  
 James McConkey  
 Richard Mennen  
 Edward Ormondroyd  
 George Pierro  
 William Pitt  
 Ed Przybylowicz  
 Frederic Quan  
 Carroll Rikert  
 Alfred Traverse  
 James West

## Individual

Renee Aubry  
 David Avery  
 Loren Babcock  
 Brian Bade  
 Dwayne Balcom  
 Stanley Balducci  
 David Ball

Albino Ballini  
 Thomas Bantel  
 James Barrick  
 Jerold Bastedo  
 Jonathan Paul Bennett  
 Frank Bennett  
 Bret Bennington  
 Kristopher Bernard  
 Michael Betancourt  
 Alan Beu  
 Rudiger Bieler  
 Gary Bingham  
 Vincent Bischoff  
 Karyn Bischoff  
 BJ Bliss  
 Susan Blumenthal  
 James Boodley  
 James Boyle  
 Laura Branca  
 Brent Breithaupt  
 William Brice  
 James Brower  
 Janice Brown  
 Susanne Bruyere  
 Philip Burgess  
 Joseph Burns  
 Bill Carman  
 Kelli Cartmill  
 Arlene Castleman  
 Don Cerio  
 Henry Chaney  
 Patricia Charwat  
 Alan Cheetham  
 Ludwik Chobot  
 Donald Coleman  
 Marla Coppolino  
 Esther Cornell  
 Rachel Covault  
 Chris Cozart  
 James Craig  
 Allen Curran  
 Sarah Curtis  
 Harry deLahunta  
 Charles Dimmick  
 Guy DiTorrice  
 Jeff Diver  
 David Dockery  
 Dora Donovan  
 Ronald Douville  
 Jim Dufoe  
 Christian Duttweiler  
 Terence Dyson-Curran  
 Tom Dzwintel  
 Joseph Eifert

Eileen Epstein  
 Frank Ettensohn  
 Barbara Fite  
 Karl Flessa  
 Merrill Foster  
 Anthony Friscia  
 Euganie Fudala  
 Paul Gagliardi  
 Walter Gates  
 Richard Gentile  
 Richard George  
 Michael Gibson  
 Thomas Giventer  
 Karen Goodman  
 Michael Grenier  
 Lindsey Groves  
 James Hagadorn  
 Martha Halperin  
 Paul Harnik  
 John Harper  
 Joseph Hartman  
 David Heerwagen  
 Amy Heller  
 Stephen Henderson  
 Austin Hendy  
 Kent Hewitt  
 Diane Hillmann  
 Richard Hoare  
 Linda Homco  
 James Houser  
 George Hudler  
 Laurie Hultberg  
 Robert Hutchens  
 Linda Ivany  
 John Jacobs  
 Larry Jensen  
 Judith Jones  
 Thomas Kammer  
 Bill Kappel  
 Joseph Kchodl  
 Bettie Kehrt  
 Kelly Kennard  
 Deborah Kissel  
 Susan Klofak  
 William Kochanov  
 Daniel Krisher  
 Stacie Leone  
 Deborah Levin  
 Bruce Lewenstein  
 Bruce Lieberman  
 Richard Lindemann  
 Deborah Litz  
 Anne Lutz  
 Rob Mackenzie

Michael Marano III  
 Edward Marintsch  
 Peter Marks  
 Barbara Martin  
 Judy Massare  
 Harry McCue  
 Ronald McDowell  
 George McGhee  
 Eleanor Merrifield  
 David Meyer  
 Timothy Miller  
 Cathy Millspaugh  
 Steven Mize  
 Nana Monaco  
 Michael Mongeon  
 Dennis Mooney  
 Carol Morris  
 Ron Mroz  
 Corrine Muske  
 David Neight  
 Charles Newsom  
 Vincent O'Donnell  
 Agata Okulicz-Kozaryn  
 Melissa Oliver  
 Karen Osburn  
 D. Jeffrey Over  
 Ronald Parsley  
 Pennsylvania Anthracite  
 Heritage Museum  
 Matthew Phillips  
 Roy Plotnick  
 Michael Powelka  
 Trina Powers  
 Karen Powers  
 Matt Pritchard  
 Gerald Ragan  
 R. Gary Raham  
 Elizabeth Reed  
 Phyllis Renzetti  
 Mariana Rhoades  
 Susan Rice  
 Frank Rose  
 Thomas Rossbach  
 Jack Rossen  
 Rebecca Rundell  
 Nerissa Russell  
 Linda Ruth  
 Chris Sampson  
 Gary Sanderson  
 Samantha Sands  
 William Schottstaedt  
 Thomas Shelley  
 Margaret Shepard  
 Joan Siedenburg

Richard Smath  
 Jacqueline Smith  
 David Smith  
 Susan Soboroff  
 James Sprinkle  
 Jacqueline Stapleton  
 Scott Starratt  
 George Stephens  
 Gary Stringer  
 Jacek Sulanowski  
 Joseph Sullivan  
 Susan Swensen  
 June Szabo  
 John Tate  
 Quinn Thomas  
 Roger Thomas  
 Ann Tobey  
 Paul Torna  
 Robin Tropper-Herbel  
 Lee Tutt  
 Kenneth Upham  
 Margaret Van Houtte  
 John VanderVeer  
 David Varricchio  
 Tom Vawter  
 Anthony Verdi  
 Victor Vere  
 Charles VerStraeten  
 Ronald West  
 Margie Whiteleather  
 Mark Whitmore  
 Bruce Wiley  
 Thomas Williams  
 Anthony Williams  
 Michael Willis  
 Marijo Wilson  
 Thomas Wood  
 Paul Zell  
 Francis Zimmer

#### Student/Senior

Marvin Adleman  
 Joanna Alario  
 Leroy Anderson  
 Lorraine Arnold  
 Thomas Babcock  
 Curtis Banta  
 Louise Barr  
 Richard Bauer  
 Barbara Berthelsen  
 Judith Ruth Bloom  
 Phillip Bonn  
 Martin Borko

Michael Brate  
 Terry Brawner  
 Peter Brellochs  
 Louis Budell  
 Richard Byrd  
 Wayne Callahan  
 Patricia Carden  
 James Chaplin  
 Robert Cormany  
 Robert Corretore  
 Susan Cotton  
 Thomas Cowan  
 Edmund Cranch  
 Marian Cutting  
 Marjorie Decker  
 Donna Dempster-McClain  
 Barbara Dewall  
 Mary Dexter  
 Cecilia Duluk  
 Ernest Dumas  
 Gisela Gall  
 Nancy Goldberg  
 Carolyn Grigorov  
 Bruce Hall  
 William Hamlin  
 Julia Hardin  
 Jonathan Harrington  
 Peter Harriott  
 Sarah Hatcher  
 Kathlyn Heaton  
 Synnove Heggoy  
 Donald Hoskins  
 Jean Houghton  
 Anthony Ingraham  
 Dorothy Jenks  
 Marguerite Johnson  
 Thomas Johnston  
 Emilie Kane  
 Kenneth Kennedy  
 Eugene Kindt  
 Richard King  
 Gilbert Klapper  
 Karen Koegel  
 James Konecny  
 Sally Labadie  
 Barbara Lamb  
 Adrienne Lampert  
 Mark Larson  
 Antoinette Levatic  
 JoAnn Linck  
 Curtis Lindy  
 Lawrence Lodico  
 Dorann Lopilato Allan

Robert Martin  
 Frank McKinney  
 Phyllis McNeill  
 Corinne Myers  
 Kimberly Myers  
 Ray Oglesby  
 Jack Oliver  
 Marvin Orlinick  
 Robert Peck  
 Adrienne Posner  
 Michael Raffe  
 Patricia Rathmann  
 Gloria Royer  
 Morteza Roz Akhtar  
 Karl - Heinz Russ  
 Elizabeth Sanders  
 James Scatterday  
 Barbara Schwartz  
 Dorothy Sellers  
 Jocelyn Sessa  
 Jirina Shupp  
 Neil Snapp  
 Nancy Spaulding  
 Sam Spicer  
 David Thompson  
 Emily Tompkins  
 Lawrence Turchin  
 Janet Van Etten  
 Gurdon Van Hamlin  
 J.R. Von Reinhold  
 Jamesson  
 Donald Wagman  
 Jack Williamson  
 Donald Wilson  
 Ruth Windmuller  
 Michael Winston

#### Agency

Big Brothers Big Sisters  
 Broome Developmental  
 Disabilities Services  
 Office  
 Cayuga Addiction  
 Recovery Services  
 Cornell  
 Cooperative Extension  
 Cub Pack 152  
 Franziska Racker Centers  
 Gem & Mineral  
 Society of Syracuse  
 George Junior Republic  
 Handicapped Children's  
 Association Respite  
 House  
 Lakeview MHS  
 Madison-Cortland ARC  
 Seneca-Cayuga ARC  
 Tompkins County  
 Mental Health  
 TST Boces - Even Start  
 Van Dyke Addiction  
 Treatment Center  
 Youth Advocate Programs

# Statement of Financial Activity

FOR THE YEARS ENDING JUNE 30,

## UNRESTRICTED NET ASSETS:

Revenue, gains and other support:	2010	2009
Grants, contributions, and gifts	\$386,466	\$1,158,944
Programs	25,752	21,653
Publications	66,074	49,675
Dues and memberships	31,225	29,658
Museum admissions	93,785	104,676
Specimen casts	27,423	-
Merchandise sales, net costs of goods sold	40,480	39,965
Investment income	2,791	7,480
(Loss) on investments	14,688	(26,863)
Gifts in kind	83,255	10,036
Gain on legal settlement	-	663,993
Other	54,551	47,997
	808,490	2,107,214

## NET ASSETS RELEASED FROM RESTRICTIONS:

Grants	1,324,034	603,247
Specific uses	74,093	227,036
	1,398,127	830,283
	2,206,617	2,937,497

## TOTAL REVENUE, GAINS, AND OTHER SUPPORT EXPENSES AND LOSSES:

Payroll and related benefits	1,198,322	1,158,167
Depreciation and amortization	378,310	363,283
Interest expense	174,872	234,091
Professional fees	36,129	199,073
Other	102,372	178,154
Building and maintenance	183,209	140,691
Grant subcontracts	240,198	99,025
Publications and printing	36,242	62,811
Exhibit expense	20,019	48,055
Supplies	17,408	18,621
Travel and workshops	14,093	13,968
Postage	13,378	13,343

## TOTAL EXPENSES AND LOSSES

**2,414,552**      **2,529,282**

## CHANGE IN UNRESTRICTED NET ASSETS

(207,935)      408,215

## TEMPORARILY RESTRICTED NET ASSETS:

Grants, contributions, and gifts	2,330,534	508,955
----------------------------------	-----------	---------

## NET ASSETS RELEASED FROM RESTRICTIONS:

Grants, contributions, and gifts	(1,398,127)	(830,283)
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## CHANGE IN TEMPORARILY RESTRICTED NET ASSETS

932,407      (321,328)

## CHANGE IN NET ASSETS

724,472      86,887

## NET ASSETS, BEGINNING OF YEAR

5,341,556      5,254,669

## NET ASSETS, END OF YEAR

6,066,028      5,341,556



[www.museumoftheearth.org](http://www.museumoftheearth.org)

Edited by Billy Kepner, Director Of Marketing And Communications © PRI 2010  
Design and layout by Rachel Philipson Photography and Design  
Photos by: Rachel Philipson, Sheryl Sinkow, Paul Warchol, Joseph L. Casciano and others.  
The Paleontological Research Institution is affiliated with Cornell University

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RESEARCH INSTITUTION

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