

[◀ Back to CST Home](#)[Printer Friendly](#)

Google™ Custom Search

Search

Discover our research opportunities...

- ▶ Research
- ▶ **Recent Grants**
- ▶ Current CST Seminars
- ▶ Office of Research and Sponsored Programs
- ▶ Center for Applied Research and Technology
- ▶ CMU Advanced Materials Research Initiative
- ▶ CMU Statistical Consulting Center
- ▶ Labs and Equipment



Michelle Steinhilb (right), assistant professor of biology, was selected to receive a two-year \$75,000 CMU Research Excellence Fund award. Steinhilb's project investigates the molecular pathways involved in Alzheimer's disease using both molecular and genetic approaches.

## Recent Grants

External grants and contracts promote funding to support scholarly faculty as they engage in research and creative activity. Grants provide funding to promote the general good, whereas contracts allow a specific donor to influence a project and incorporate a request for service.

The following is a list of College of Science and Technology faculty and staff who have recently earned external grants of \$20,000 or more:

### Recipients of Recent Grants

#### Juan Peralta (PHY)

Magnetic properties from first principles

▶ National Science Foundation, \$178,000  
(September 2009 - October 2012)

#### Cynthia Damer (BIO)

Investigating the function of Copine A in Dictyostelium: research supplement II

▶ National Institutes of Health, \$23,140  
(July 2009 - July 2011)

#### Ed Benson (CHM)

Science curriculum and instruction for exceeding new content expectations

▶ Michigan Department of Education, \$199,584  
(November 2008 - July 2010)

#### Sven Morgan and James Student (GEL)

Effects of CO<sub>2</sub>-H<sub>2</sub>O fluids on deformation of quartzite and marble in the EJB aureole

▶ National Science Foundation, \$31,167  
(July 2009 - July 2010)

#### Christopher Tycner (PHY)

Hot disks around early-type stars: interferometry, spectroscopy & photometry

▶ NASA, \$104,500  
(May 2009 - June 2011)

#### Veronica Barone (PHY)

Light-metal-mediated hydrogen storage capacity of graphene nanoribbons

▶ American Chemical Society, \$50,000  
(July 2009 - October 2011)

#### Nancy Seefelt (BIO)

Waterbird Populations & Breeding Habitat Requirements on N. Great Lakes Islands

▶ U.S. Fish and Wildlife Service, \$19,122  
(April 2009 - January 2012)

#### Janet Miller (BIO)

Protein-Gene Interactions in Congenital Hydrocephalus

▶ STARS, \$24,988  
(April 2009 - May 2010)

#### Roger Lee (CPS)

Frameworks for Mobile Embedded Software Development with MDA

▶ Ubiquitous Computing Center, \$20,000  
(June 2009 - January 2011)

### Research Spotlight Kelty studies respiration



Jon Kelty, an assistant professor of biology, is in the midst of a three-year project to study the electrical reactions that control breathing. Kelty is interested in learning about the connections in the brain that control a gasp and other breathing patterns in hopes of better understanding a host of human breathing disorders, including Sudden Infant Death Syndrome. His research, funded by a \$191,000 grant from the National Institutes of Health, may provide direction to research on such disorders.

### NASA Grants Compliance Information

- ▶ [NASA Equal Opportunity Poster](#)
- ▶ [NASA Title VI et al Brochure](#)

**Mihai Horoi (PHY)**

Nuclear Structure, Nuclear Astrophysics and Mesoscopic Physics  
▶ NSF via a collaboration with Michigan State University, \$40,457  
(May 2009 - May 2010)

**Christopher Tycner (PHY)**

Rapid Stellar Spin and Disk-Formation Mechanisms in Early-Type Stars  
▶ Research Corporation, \$29,366  
(June 2009 - July 2011)

**Mary Tecklenburg (CHM) and Marco Fornari (PHY)**

Spectroscopy of Protein Mediation of Bone Mineralization, Year 2  
▶ NIH via collaboration with the University of Michigan, \$49,501  
(April 2009 - April 2010)

**CMU Science-Math-Technology Center (SMTC)**

Embracing Math and Technology in High Schools (EMATHS)  
▶ MI Department of Education via a collaboration with Macomb ISD, \$80,250  
(September 2008 - September 2009)

**Choon Lee and Ajit Sharma (CHM)**

Synthesis and evaluation of nano-antioxidants for medical applications  
▶ National Institutes of Health, \$206,920  
(April 2009 - April 2012)

**Mihai Horoi (PHY)**

Building a universal nuclear energy density functional: years 3-5  
▶ U.S. Department of Energy, \$90,000  
(December 2008 - November 2009)

**Mike Libbee (GEO)**

Geography and History Project, Phase II  
▶ National Geographic Education Foundation, \$197,500  
(Awarded January 2009)

**Scott McNaught (BIO) and Michigan Water Research Center**

Testing and monitoring services for Platte Lake and its tributaries  
▶ Michigan Department of Natural Resources, \$160,000  
(Awarded February 2009)

**Sivaram Narayan (MTH)**

REU Site: Analysts, geometry, graph theory, matrix theory and statistics  
▶ National Science Foundation, \$199,952  
(Awarded February 2009)