



Darrin Magee



Anthony Cerulli



Patricia Mowery



Walter Boyer



Kristy Kenyon

Assistant Professor of English **Eric Bulson** applied to the National Endowment for the Humanities for both a Summer Stipend and Fellowship funding in support of his study of *The Little Magazine*.

In collaboration with colleagues at the University of Illinois, Associate Professor of Geoscience **Neil Laird** submitted a proposal to the National Science Foundation for collaborative research titled *Understanding Great Lakes Ice Cover and Atmospheric Surfaces Fluxes*.

Etin Anwar, assistant professor of religious studies has applied to the National Endowment for the Humanities for a fellowship to support her study of *Feminist Ethics in Islam*.

Associate Professor of Russian **David Galloway** submitted a fellowship proposal to the National Endowment for the Humanities in support of his project *A Thematic History of Russian Prison Literature*.

Jamie Bodenlos, assistant professor of psychology, submitted a proposal to National Institutes of Health for support of her project titled *Socio-Environmental Model of Stress and Obesity-related Disease among African Americans*.

Christine de Denus, associate professor of chemistry, applied to the National Science Foundation for support of research titled *A Bottom-Up Approach to Organometallic Molecular Wire Candidates*. The proposal outlines a

cost-effective modular approach to the production of a library of molecular wire candidates that should find wide application in the production of miniature information and data storage devices.

Betty Bayer, professor of women's studies, submitted a proposal to Cornell University Society for the Humanities in support of her project titled *Harmonies of Invention: Music, Mind and Body*.

In collaboration with colleagues from several research universities, Assistant Professor of Environmental Studies **Eugenio Arima** submitted two proposals to the National Science Foundation to continue his work on deforestation in the Amazon: *Co-evolving Nature and Society—Frontier Development in Amazonia and Contentious Land Change in Amazonia's Arc of Deforestation*.

Pasad Kulatunga, Assistant Professor of Physics, submitted a proposal to the National Science Foundation for research titled *Investigation of High Density Microscopic Dipole Traps and an Investigation of Atom Dynamics in a configurable Microscopic Double Well*.

Working with the administration and Associate Professor of Psychology **Michelle Rizzella**, Associate Professor of Chemistry **Christine de Denus** and Associate Professor of Biology **Kristy Kenyon**, Associate Professor of Biology **Mark Deutschlander**

submitted a proposal to the National Science Foundation titled *Recruiting and Retaining Undergraduate STEM Scholars through an Integrative Neuroscience Scholars Program*. Additionally, in collaboration with colleagues at Fordham University, **Deutschlander** submitted a Major Research Instrumentation proposal to the National Science Foundation to acquire a Merlin Avian Radar System.

The Grants Office helps faculty identify potential sources of external funds for specific projects, ensure that each proposal meets the criteria and priorities of the sponsor, develop a realistic budget, create the strongest possible application and ascertain that the institutional ramifications of each proposal are considered; we also provide a degree of grant management once a proposal is funded.

Please contact us if you have an idea or a question; we look forward to hearing from you!

Martha, Roberta and Chris

It is possible that you are not listed in this newsletter but you have, in fact, recently applied for or received a grant or fellowship. If this is the case, please let us know! We are sorry that we missed you and would very much like to hear more about your project.

<http://www.hws.edu/offices/grants.aspx>

Report on Faculty Grant Activity at Hobart and William Smith

June 2010 – May 2011

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HOBART AND WILLIAM SMITH COLLEGES

Geneva, NY 14456



Provost Patrick A. McGuire

Letter from the Interim Provost

In the past year, Hobart and William Smith Colleges faculty and staff have applied for 81 grants from government agencies and private foundations; moreover, during this period of time, approximately \$6.3 million was received in new grant commitments. Of this total, \$3.7 million came from private foundations and \$2.6 million from government sources. Grant funding in the natural sciences supported research activity including summer research with our students, acquisition of new equipment, renovation of existing laboratory space, and curricular change and improvement. Grants in the humanities and social sciences

supported individual research projects, as well as an array of curricular and co-curricular initiatives. External support came from a wide array of highly competitive sources including the National Science Foundation, the American Council of Learned Societies, the Andrew W. Mellon Foundation, the Henry Luce Foundation and the George I. Alden Trust among others.

These impressive numbers demonstrate a robust culture of grants at the Colleges that is shared across disciplines. These commitments support collaborative research among our faculty and with colleagues at different universities and colleges across the country. In addition, the grants support collaborative research with our students across disciplines in many departments and programs. Much of the collaborative research results in publication in scholarly journals under the joint authorship of our faculty and students. All of these joint ventures open the minds and hearts of our students to their potential to live 'lives of consequence'.

All of us in the HWS community are enormously proud of our faculty and students who have been recognized for their scholarly work by receiving grant support. We are equally proud of those who undertook the rigorous work to submit proposals but who have not yet received funding. We recognize the ability, potential, and commitment of our faculty to their profession and to our students who benefit from this research support in their classes and in the joint research efforts of faculty and students. Former Provost and Dean of the Faculty Teresa Amott and I want to express our sincere thanks to our grant seekers and recipients and express admiration for their dedication to their professions, to their students and to Hobart and William Smith Colleges.

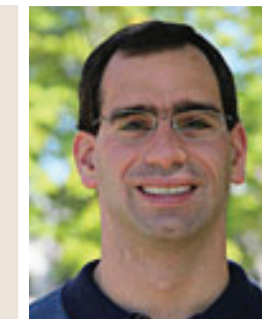
Sincerely,

Patrick A. McGuire
Interim Dean of the Faculty and Provost

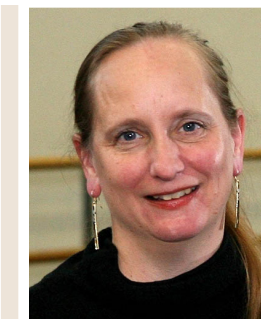
Faculty Grant Activity • June 2010–May 2011

Associate Professor of Chemistry **Justin Miller** received a grant from the National Institutes of Health through the National Cancer Institute for research on designing anticancer molecules. The major goal of the project titled *Synthesis of Anticancer HDAC Inhibitor Natural Products and Analogs* is the synthesis of a host of potential anticancer chemotherapeutics structurally similar to natural products that inhibit a protein partly responsible for carcinogenesis.

Darrin Magee, assistant professor of environmental studies, received funding from the Henry Luce Foundation for an Asian Environmental Studies initiative titled *Building Capacity and Expanding Horizons*. The grant will support an array of activities, stipends, travel, workshops, supplies and materials to enhance Asian Environmental Studies at HWS and across campuses of peer institutions.



Justin Miller



Cynthia Williams

Professor of Dance **Cynthia Williams** received a grant from the National Endowment for the Arts through New



Sigrid Carle



Helen McCabe



Steven Penn



Chi-Chiang Huang



Alan van Giessen

York State DanceForce to support *Project Becoming: Geneva*. The project culminated in an August workshop for Geneva girls, ages 13-19, led by members of the Bronx-based INSPIRIT Dance Company.

• Professor of Biology **Sigrid Carle**, Associate Professor of Chemistry **Justin Miller**, Assistant Professor of Biology **Patricia Mowery** and Associate Professor of Chemistry **Erin Pelkey** were awarded a grant by the National Science Foundation to fund the *Transforming Cell Biology and Organic Chemistry Through Incorporation of the HDACi Cancer Therapeutic Laboratory Project*. The project combines cell biology with organic chemistry in an interdisciplinary program designed by HWS faculty to seek and characterize possible anticancer therapies.

• Assistant Professor of Religious Studies **Anthony Cerulli** received an International and Area Studies Fellowship through the American Council of Learned Societies for his project *Medical Narratives and Allegorical Bodies in Indian Medical Literature*. The project examines the ethics of illness in the cultural discourses of medicine, religion, and politics in premodern Indian history.

• **Christine de Denus**, associate professor of chemistry, collaborated with science department chairs and the administration to obtain a grant from the National Science Foundation's Academic Research Infrastructure Program. The project will extend a chilled water loop to the Eaton/Lansing science complex to provide for proper temperature regulation of research spaces located there.

• Assistant Professor of Biology **Patricia Mowery** and collaborators at the New York State Agricultural Experiment Station received a grant from the U. S. Department of Agriculture. The project studies *Xylella fastidiosa*, a bacterium that

infects grape vines, causing the death of the plant.

• **Walter Bowyer**, professor of chemistry, received a three-year National Science Foundation grant to continue his research on indium mediated allylation, a reaction that deals with carbon-carbon bonds, which are essential in the production of manmade chemicals used for pharmaceuticals and plastics.

• Assistant Professor of Philosophy **Eric Barnes** again received funding from the Open Society Institute in support of the annual Round Robin Invitational Debate which took place at Hobart and William Smith on April 8 and 9. This is the fifth year that HWS has partnered with the International Debate Education Association (IDEA) to host this unique international competition.

• **Tom Drennen**, professor of economics, again received funding from Sandia National Labs to support a research assistant to provide modeling and technical support to the NETL Power Systems Life Cycle Analysis Tool being developed for the National Energy Technology Laboratory in Pittsburgh. Drennen is also part of an NSF-funded project sponsored by the University of Rochester; this Integrative Graduate Education and Research Training (IGERT) award supports the development of a multidisciplinary graduate training program focused on distributed renewable energy sources available from the sun.

• **Steven Penn**, associate professor of physics, again received funding from the National Science Foundation to continue his work on Advanced LIGO (Laser Interferometer Gravitational Wave Observatory). A long-time collaborator in this multi-university initiative, Penn focuses on two of the noise barriers—test mass thermal noise and bilinear noise—that must be overcome before LIGO makes regular gravity wave detections.

• Associate Professor of Education **Helen McCabe** was awarded a Fulbright Scholarship taking her to Beijing, China to study disability in a nation whose reforming economy and society have dramatically improved the quality of life for much of China's population in the past 20 years.

• **Alan van Giessen**, assistant professor of chemistry, received a Cottrell College Science Award from the Research Corporation for Scientific Advancement to support a project titled *Multicanonical Simulation of Protein Aggregation*. The long term goals of this research are to understand how proteins misfold to form fibrils and to develop an on-going undergraduate research program focused on protein behavior. Additionally, **van Giessen** has applied to the American Chemical Society under its Petroleum Research Fund for support for research titled *Determination of the Surface Free Energy for Curved Interfaces*.

• Professor of Philosophy **Scott Brophy** again received an award from The Betsy and Jesse Fink Foundation in support of the Northeast Environmental Studies (NEES) Group Conference. This annual event brings together professors from colleges and universities in the Northeast to discuss the moral dimension of climate change and other environmental hazards.

• Professor of Asian Languages and Cultures **Chi-Chiang Huang** was awarded a grant by the Chiang Ching-Kuo Foundation for International Scholarly Exchange to support his project, *The Buddhist Family Named Shi - The Elite Family's Patronage of Buddhism in the Southern Song*.

• In collaboration with Rutgers University and the Consortium for Mathematics and its Applications (COMAP),



Jim MaKinster



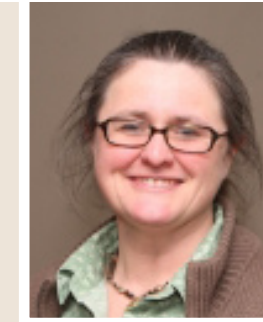
Paul Kehle



John Halfman



Christine de Denus



Mary Kelly

Associate Professor of Education **Paul Kehle** received grant funding from the National Science Foundation for the BioMath curriculum-development project entitled *Value of Computational Thinking*.

• Assistant Professor of Education **Mary Kelly** received a grant from the B. Thomas Golisano Foundation in support of the HWS Disability and the Arts Festival which took place in April 2011. The annual festival showcases the achievements of artists, writers, actors, filmmakers and performers with disabilities, and makes their art available to others with disabilities and to the general community. She has also submitted a proposal to the National Endowment for the Humanities for support of the Festival scheduled for 2012.

• **Kristy Kenyon**, associate professor of biology, received funding from the National Science Foundation for a collaborative project entitled *Extending CREATE Demographically and Geographically*. CREATE, which was piloted at City University of New York and is now undergoing national expansion, is a new instructional methodology that teaches students how to critically read scientific papers, and, at the same time, humanizes the scientific process.

• Associate Professor of Education **Jim MaKinster** received National Science Foundation support to collaborate on the design of an environmental science curriculum that will enable students to explore the relationship between climate change and biodiversity using scientific data and Geospatial Information Technology. Additionally, **MaKinster** working closely with colleague **Eugenio Arima** was instrumental in developing a successful proposal to the George I. Alden Trust for funding to develop a Geospatial Learning Laboratory in the Warren Hunting Smith Library. **MaKinster** also submitted a proposal to the National

Science Foundation's PRIME program in collaboration with researchers at TERC (Technical Education Research Centers) to develop a classroom observation instrument and protocol for studying the pedagogical content of secondary teachers using geospatial technology to teach science.

• With colleagues from the Finger Lakes Institute and other regional partners, Professor of Geoscience **John Halfman** received support from the New York State Department of State to develop a new watershed management plan for Seneca Lake. When completed in 2013, the plan will provide guidance to regional municipalities and policy makers regarding the environmental issues facing the watershed. Additionally, Halfman received support from the Owasco Lake Watershed Association to acquire a suite of instrumentation to enable additional stream monitoring.

• Working with the administration and department chairs **Christine de Denus** (Chemistry), **Don Spector** (Physics), **Mark Deutschlander** (Biology), **John Halfman** was instrumental in securing a grant from an anonymous foundation to acquire science equipment to enhance teaching space and research labs in those four departments.

• Director of the Finger Lakes Institute (FLI), **Dr. Lisa Cleckner**, in collaboration with **John Halfman** and colleagues both at HWS and elsewhere, submitted several proposals and/or received funding to advance education and research on the region's watershed: to the Environmental Protection Agency, a proposal titled *Citizen Science Water Quality Monitoring and Invasive Species Action in the Finger Lakes*; to the Mid-Atlantic Panel on Aquatic Invasive Species, a project titled *Presence of the Invasive Asian Clam in the Finger Lakes Region of New York*; to the Tripp Foundation through the Seneca Lake

Pure Waters Association (SLPWA) a proposal to expand freshwater testing on Seneca lake; and to the Ontario County Watershed Resources Council through SLPWA for expanded watershed testing and education; to the Rochester Area Center for Excellence in Math and Science, a proposal titled *Impact of Watershed Activities and Land Use on Finger Lakes Water Quality*; to Freshwater Future through SLPWA, a proposal titled *Seneca Lake Watershed Testing Expansion*.

• With colleagues from the New York State Agriculture Experimental Station, biology professor **David Droney** applied to the National Science Foundation for support for a collaborative project titled *Sexual Selection and Divergence of a Sex Pheromone Communication System*.

• **Linda Robertson**, professor of media and society, submitted a proposal to Chicken and Egg Productions for support in the completion of her film, *Daughters of the Revolution*.

• In collaboration with colleagues at the State University of New York at New Paltz, **Tara Curtin**, associate professor of geoscience, submitted a proposal to the National Science Foundation's RAPID program for a project titled *Separating the effects of differential isostatic rebound from climate driven lake level variability in the New York Finger Lakes*.

• **Cadence Whittier**, associate professor of dance, applied to the Phelps Art Center for funding to support *Refuse: Recycle and Reuse*. She also submitted a proposal to the New England Foundation for the Arts (NEFA) for her project *Monica Bill Barnes: Everything is Getting Better all the Time*.