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Research Experiences for Undergraduates



The Department of Mathematical Sciences hosted a multidisciplinary Research Experiences for Undergraduates program in computational mathematics and nonlinear dynamics of biological, bio-inspired and engineering systems. This first-time summer research program at Mason provided participants with a unique experience of how mathematics can be applied to understand the qualitative and quantitative behavior of these systems. Sponsored by the National Science Foundation REU Program and the Department of Defense ASSURE program, the nine-week program attracted eight outstanding undergraduate students from all over the country along with a local high school teacher to perform research on advanced topics in mathematics and multidisciplinary applications.

Principal Investigator
DR. PADMANABHAN SESHAIYER

The Principal Investigator of the program, Dr. Padmanabhan Seshaiyer, is an Associate Professor in the Department of Mathematical Sciences and directed this program along with a team of faculty that included Daniel Anderson, Maria Emelianenko, Harbir Lamba, Domenico Napoletani, Evelyn Sander, Timothy Sauer and Thomas Wanner. Selected problems range from reconstruction of protein networks and aneurysm mechanics to modeling of Micro Air Vehicles, neuronal field models, porous substrates, and materials engineering applications.

Kyle Pounder traveled from St.

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research@mason is a quarterly newsletter that highlights many of the outstanding and innovative research efforts of the students and faculty here at Mason. This certainly is an exciting time for research as we continue to see growth in many of our programs. In an effort to keep the Mason research community informed, **research@mason** will also provide updates on federal, state and university policy changes, organizational updates and other topics of interest to all faculty and staff involved in research.



Developing a Data Analysis Tool for Hurricane Studies



{ DR. ZHONG LIU }

Each year, hurricanes and tropical storms can cause heavy property damages and human casualties along coastal areas. Better prediction of hurricanes is important for disaster management activities in coastal states. However, in order to better predict hurricanes, we need to better understand their behavior, such as rapid intensification, by conducting research activities. Observational data are necessary for conducting research activities. Satellite data are particularly important to provide observation over the vast Atlantic Ocean where traditional observations are sparse.

Over the past decades, NASA and NOAA have launched many weather satellites. Among them, geostationary satellites (e.g., GOES) which locate approximately 36,000 km above the Equator and provide important weather imagery for a wide variety of weather related activities ranging from daily weather forecasts to hurricane watching. Historical geostationary satellite imagery is an important data source for case studies, meteo-

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WASHINGTON WATCH

Allowable Costs to Federal Projects

In Sponsored Programs, the most-used guide for managing federal awards is the Office of Management and Budget Circular A-21 (codified: 2 CFR Part 220, Principles for Determining Costs Applicable to Grants, Contracts, and Other Agreements with Educational Institutions). The main sections of the circular provide the principles for determining allowable expenses charged to federal awards, the procedures for determining the F&A (facilities and administrative/indirect) rate, and the most frequently used, Section J, which covers specific items of cost. For example, Section J. #3 says that costs of alcoholic beverages are unallowable, and J. #17 says that entertainment costs are unallowable. Section J. #10 details how compensation for personal services, or salaries, should be charged to sponsored agreements, and the documentation requirements for payroll charges, including effort reporting. When Section J fails to specify if an item is allowable or not, we fall back on the basic principles.

Basic Principle: The cost must be reasonable, allocable to sponsored agreements, and consistently treated in like circumstances.

The terms reasonable and allocable are discussed in the circular. For example, to be reasonable, a cost must pass the “prudent person” test. Ask yourself the question, “Would a prudent person have purchased that good or service for the same purpose and price?” A cost is allocable if it is incurred solely to advance the work under the agreement, or may be applied to multiple projects by some reasonable allocation method. Note what the circular says regarding shifting costs: “Any costs allocable to a particular sponsored agreement under the standards provided in the Appendix may not be shifted to other sponsored agreements in order to meet deficiencies caused by overruns or other fund considerations, to avoid restrictions imposed by law or by terms of the sponsored agreement, or for other reasons of convenience.” Auditors search for evidence of cost shifting, and Mason’s Cost Transfer Policy guides us in compliance with that directive (<http://research.gmu.edu/ORPD>, click on University Research Policies).

A-21 describes the types of costs appropriate for direct charges, and areas of cost which should be charged as F&A (indirect) cost. Sensitive items of cost which should normally be charged as indirect costs are: salaries and fringe benefits of administrative and clerical staff, office supplies, postage, local telephone costs, and memberships. For more discussion of these types of F&A expenses, go to <http://research.gmu.edu/OSP>, click on Information and Procedures, and choose A-21 Allowable Costs Guidance.

Best practice for PIs and Research Administrators: Become familiar with the principles covered in A-21, and refer to the Circular when there are questions regarding appropriate charges to Federal projects. Circular A-21 can be accessed online at <http://research.gmu.edu/OSP>, click Policies.

RECOVERY ACT OPPORTUNITIES

A large number of funding opportunities are available as federal agencies implement the Recovery Act. We encourage you to search for grant opportunities at Grants.gov or visit the [research website](#) for the most current information.



These opportunities are highly competitive and limited. We recommend you contact the agency program officer to determine if your research project is best suited for a Recovery Act funding.

UPDATE Director of Sponsored Programs



Mason researchers continue to be successful in their efforts to expand our portfolio of externally sponsored programs.

During FY 2009, we saw sponsored expenditures exceed \$100M for the first time. Research continues to be a high priority and senior leadership is committed to raising our profile as a nationally ranked research university. We also have been successful in our efforts to secure American Recovery and Reinvestment Act (ARRA) funding, with 22 awards for approximately \$11M.

As research activity grows during a difficult budget time, we continue to look for opportunities to streamline business processes and utilize technology. Our goal is to ensure that we are able to support the increased volume while also complying with the more stringent reporting and oversight requirements being imposed by sponsoring agencies. In recent months, we have seen sponsors increase scrutiny on proposal submissions (requesting additional detail and supporting documentation for budget items), Export Controls, Effort Reporting, Conflict of Interest, Responsible Conduct of Research, No Cost Extensions (no longer a given without justification and a timely request) and the list goes on.

The Office of Research and the Research Council are currently working on a policy for proposal deadlines which will be announced in the coming weeks. This policy will require proposal documents to be submitted for review 4 days in advance of

proposal deadlines. It will expand on the memo sent to the Mason research community from Dr. Roger Stough, VP for Research, during the spring semester. Advanced receipt allows us to review for compliance with proposal guidelines, ensure all proposals are submitted on time, address unexpected technical issues and allows us to better allocate resources to give all PIs submitting proposals the service and support they deserve. In addition, we are looking for opportunities to utilize technology. Some examples are to develop an online routing system, reviewing the possibility of implementing a system-to-system (S2S) solution for proposal submissions and making improvements to online reporting tools.

It is hard to believe the holiday season is right around the corner, but please let us know as early as possible if you intend to submit proposals during this time. Since the university is closed for part of Thanksgiving week and for an extended winter break, this can create challenges for proposals due during this period. Please make your request for proposal assignment at <http://www.randed.gmu.edu/osp/proposal/index.cfm> as early as possible and an OSP Grants Administrator will work with you on a timeline for submission.

Thank you very much for working with us on the various initiatives we have undertaken over the past year. If you have any questions or feedback for OSP, please do not hesitate to contact me at 993-4573 or mlaskofs@gmu.edu.

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Research Experiences for Undergraduates

Mary's College of California to work in the REU program. He said, "Developing relationships with faculty was invaluable, and it was interesting to see how they start to explore problems. Their methods weren't that different from ours!"

The students that participated in this interdisciplinary program were assigned a mentor to work on differential equations that could be applied to real world situations. The program culminated in a series of student presentations which, in many cases, are the foundation for post baccalaureate work, and research competitions like the one held by the Society for Industrial and Applied Mathematics (SIAM).

Math major Minerva Venuti has been working with Seshaiyer for the past year through the URCM Program, and Mason's undergraduate apprenticeship program. She won a prize in the SIAM undergraduate poster session on July 7 as a result of her work on developing a mathematical model for brain aneurysms. She also had an opportunity to work as a mentor in the summer REU program. She said, "After having a chance to teach and mentor, I kind of like the idea of being a professor one day! [Seshaiyer] is incredibly enthusiastic, and a wonderful teacher. He is great at getting students to step up and into research studies."

Kris Kappmeyer is a math teacher at HB Woodlawn High School. She has partnered with Seshaiyer in the Association of Women in Mathematics Teacher Partnership program. She also examined mathematical modeling of the tissue in the arterial wall of a brain aneurysm as a participant in the summer REU program. She plans to incorporate into her classroom agenda the idea that students can reach beyond calculus and get excited about theories that are truly applicable to real world problems.

"There is a college level mismatch between theories and how they are used in practical applications," Seshaiyer said, "It is important for students and teachers to see how theory, numerics, and experimentation really go hand in hand."

The REU program provides opportunities for participants to prepare for success in the mathematical and engineering fields, and assists them from college to

“ The Principal Investigator of the program, Dr. Padmanabhan Seshaiyer, is an Associate Professor in the Department of Mathematical Sciences and directed this program along with a team of faculty that included Daniel Anderson, Maria Emelianenko, Harbir Lamba, Domenico Napoletani, Evelyn Sander, Timothy Sauer and Thomas Wanner. ”



**Dr. Padmanabhan
Seshaiyer**

graduate school. It offers high school teachers valuable experience with problem solving and open-ended exploration in mathematics classrooms. Women and underrepresented minorities are encouraged to pursue multidisciplinary careers that bridge mathematical, computational and biological sciences.

Angela Dapolite, senior at Clarkson University, and Syeda Zaidi, sophomore at University of Maryland, College Park, applied differential equations to real situations in their summer program work. Angela admitted that she came with a fear of computers, but learned to be persistent. She said, "Sometimes it's easier to give up, but trying new paths often leads to success."

Being the youngest in the group, Zaidi was apprehensive about her involvement. She gained self-confidence through hard work and said she had fun learning. Her advice to future students: "Go ahead and explore answers to questions. Don't be afraid to look stupid. Answers can satisfy your need to know."

"Through these research problems, we hope to encourage students and teachers to learn by discovery and

enhance their understanding of the multidisciplinary role of mathematics in engineering, science and medicine," Seshaiyer said.

He has directed over 25 students at various levels including undergraduate students who have won national awards for their research, and high school students who have won grand prizes in Science and Engineering fair competitions. Besides his research, Seshaiyer has also received several prestigious teaching awards, and currently serves as a member for the Center for Teaching Excellence. He is excited about the Quality Enhancement Plan's topic of enhancing undergraduate scholarly inquiry, and will be serving on a panel to determine how to advance undergraduate scholarship.

All of the REU program students agreed that research experience is critical and can provide additional information that might not be covered in the classroom. With no answers and no solutions, they developed skills to resolve problems that will be applied to senior theses and projects when they continue their studies at their home schools this fall. In many cases, they will continue exploring theories that began this summer into graduate studies and beyond.

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FROM PAGE 1...

{ DR.
ZHONG LIU }

rological education, numerical model verification, etc. Data accessing is not an easy task for many non-experts, however, and requires a lot of resources and knowledge. A user-friendly tool will encourage the use of the product and expedite discovery.

The Goddard Earth Sciences Data Information and Services Center (GES DISC) at the NASA Goddard Space Flight Center is home of many NASA satellite data products. As a George Mason research professor and an onsite contractor at GES DISC, along with my colleague, Dana Ostrenga, a Mason PhD student who also works at GES DISC, we are developing a hurricane data analysis tool for the hurricane research and education communities. This geostationary product, also known as the merged IR product, is a mosaic of several geostationary satellites along the Equator, providing a global coverage. It is one of the satellite and model data products that are crucial for hurricane studies.

This tool is very user-friendly. With a web browser, users can access the entire geostationary archive without downloading any data or software. Key features are, single image or animation, time skip, false color analysis, etc. More features will be added in the future.

In addition to hurricane research, this tool also allows us to investigate various weather phenomena around the world. Its high temporal resolution (available every 30 minutes) is a gold mine for weather enthusiasts.

DEVELOPING A DATA ANALYSIS TOOL FOR HURRICANE STUDIES

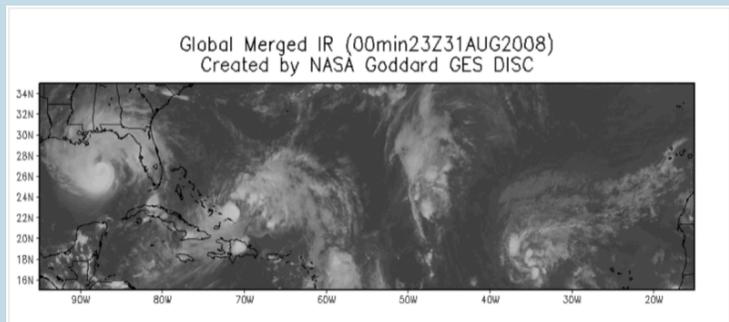


Figure 1. A black and white image at 23 Z on August 31, 2008 showing Hurricane Gustav, Tropical Storm Hanna and Tropical Storm Ike.

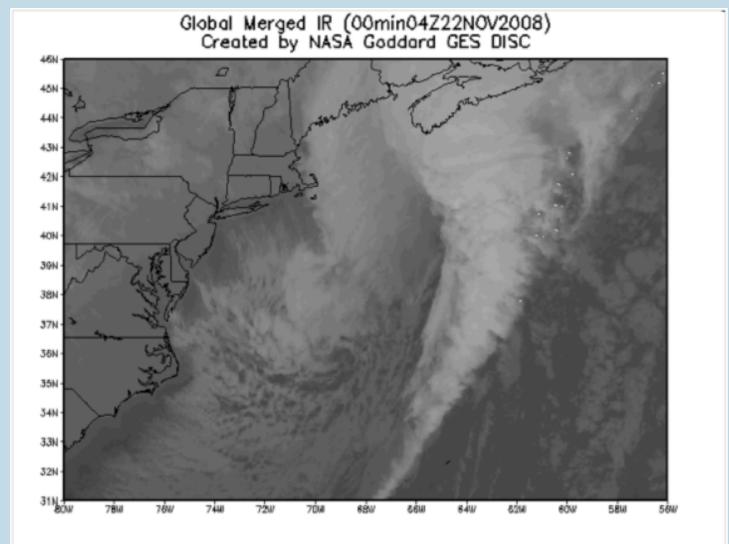


Figure 2. The hurricane analysis tool can also be used for studying weather events around the world, such as this cold front passage.

ABOUT DR. LIU



Zhong Liu is both Research Faculty for CEOSR, and Senior Research Scientist, NASA GSFC GES DISC, a remote sensing data archive and service center. He received his Ph.D. in 1995 from The Ohio State University.

His expertise includes online information systems, global precipitation, global agriculture information system, remote sensing applications, and hurricane information systems.

CEOSR at George Mason University focuses on research that enhances our understanding of the earth and the space that envelops it. CEOSR scientists perform basic and applied research using satellite platforms and sensors, earth systems, cutting-edge information technologies, and innovative computational algorithms.

The STAR (Science and Technology in America's Recovery) Project

Since President Obama signed the American Recovery and Reinvestment Act into law in February 2009, there has been an increased focus on transparency and accountability related to federal spending. The STAR (Science and Technology in America's Recovery) Project is an initiative from the White House Office of Science and Technology Policy (OSTP) to better quantify the impact of federal investment in the national research enterprise. The goal of the STAR project is to develop a framework for collecting data on economic benefits, scientific outcomes and social outcomes by using existing databases and records. Ultimately these efforts can help to reduce burden on PIs and Universities related to reporting by utilizing automated tools such as webscraping.

George Mason as a member of the Federal Demonstration Partnership (FDP) was asked to participate in the STAR pilot project in June 2009 along with six other FDP universities (Alabama, CalTech, Delaware, Texas, UMass and UPenn). The first phase of the pilot was to review administrative records and identify consistent methods for identifying short-term benefits by focusing on job creation measures. The next phase of the project will focus on research outcomes such as patents, licenses, new businesses and citations. We will continue to provide updates to the Mason research community as the pilot project progresses.

If you have any questions related to STAR please contact Mike Laskofski at 993-4573 or mlaskofs@gmu.edu.

FISCAL YEAR '09 & '10 SPONSORED PROGRAM ACTIVITY

Congratulations to all who have been successful in their pursuit of externally sponsored funding.

FY09 PROPOSALS

Q1	206	\$ 70.3 M
Q2	231	\$116.6 M
Q3	235	\$ 98.8 M
Q4	316	\$134.3 M
TOTAL	988	\$420.0 M

TOTAL FY 08 - 851 for \$344.0 M

FY09 AWARDS & INCREMENTS

Q1	225	\$23.0 M
Q2	178	\$26.9 M
Q3	155	\$23.9 M
Q4	211	\$19.4 M
TOTAL	769	\$93.2 M

TOTAL FY 08 - 715 FOR \$95.0 M

FY09 EXPENDITURES

Q1		\$ 26.9 M
Q2		\$ 23.3 M
Q3		\$ 21.8 M
Q4		\$ 28.1 M
TOTAL		\$100.1 M

TOTAL FY 08 - \$79.9 M

FY10 PROPOSALS

	NO.	VALUE
Q1	259	\$145.7 M

FY10 AWARDS & INCREMENTS

	NO.	VALUE
Q1	232	\$43.6 M

FY10 EXPENDITURES

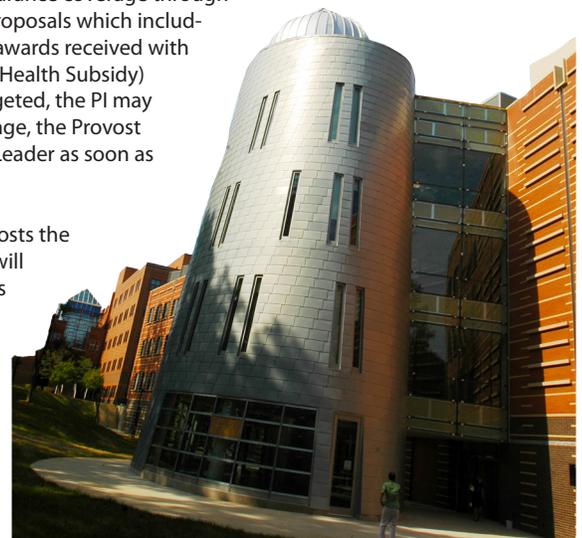
Q1		\$32.4 M
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Subsidized Graduate Health Insurance

As of Fall 2009, Mason began offering eligible graduate students 100% subsidized health insurance coverage through Aetna Student Health. As of November 2008, OSP began budgeting for this subsidy on any proposals which included eligible graduate students and have received several awards with this new line item. For awards received with the subsidy budgeted, the amount will be set up in Banner at account code 78525 (Graduate Health Subsidy) and is excluded from F&A (indirect). On awards which do not have the health insurance budgeted, the PI may choose to rebudget to cover the charge on a sponsored fund or for the first year of the coverage, the Provost Office will cover the expense. If a rebudget is needed, please contact your Post Award Team Leader as soon as possible.

OSP worked with the Provost's Office, Fiscal Services and Payroll/HR on the program which posts the subsidy charge to the appropriate fund or org. The total premium for the full academic year will be charged over 18 pay periods beginning with the September 16th payday and will show as an expense as the semi-monthly payrolls are run and posted. The program will post the appropriate charge to any sponsored funds which have an amount budgeted at account code 78525.

If you have specific questions concerning eligibility or administration of this program, please refer to the following link <http://provost.gmu.edu/support/sghi/index.html>. If you have questions which relate to OSP, please contact Beth Ives at x32989.



Updates coming to the PI Reports

Based on feedback gathered by faculty and staff using the PI Reports, OSP, Fiscal Services and ITU have worked together to make changes to the PI Reports. An updated version of the PI Reports and PI by Month Range Reports will be available by early December.

The PI report will have a new pooled budget selection "Labor (ALL)." This will allow you to see all the categories of labor and fringe at one time. This option is currently available in the PI report by Month Range only.

Additional changes focus on reordering and renaming column headers, tabs, and drop menus. Labor accounts (begin with 6) will be listed before direct expense accounts (begin with 7). The order of the fund column and grant column will be switched. Drilling on the fund column will provide detailed information on expenditures. These changes are intended to make navigation and use of the reports more intuitive. A "Labor commitment by employee" worksheet is also being developed.

If you have any feedback on the PI Reports or are a new user and need to know how to get started please contact Pat Sperry, Training Manager at 993-8929 or psperry@gmu.edu.

National Science Foundation (NSF) Responsible Conduct of Research (RCR) Requirements

A Federal Register Notice announcing NSF's final implementation of the RCR requirements originally directed as part of the 2007 America COMPETES Act was published on August 20, 2009. It states,

Effective January 4, 2010 NSF will require that, at the time of proposal submission to NSF, a proposing institution's Authorized Organizational Representative certify that the institution has a plan to provide appropriate training and oversight in the responsible and ethical conduct of research to undergraduates, graduate students, and postdoctoral researchers who will be supported by NSF to conduct research. While training plans are not required to be included in proposals submitted to NSF, institutions are advised that they are subject to review upon request.

NSF is leaving it up to institutions to develop individual training plans and determine both the content and the delivery method for the training. Mason's Research Council is in the process of finalizing the details of the Mason implementation plan to comply with this requirement. There will be additional information distributed in early December.

Holiday Hours of Operation

In observation of the Thanksgiving holiday, The Office of Sponsored Programs will be closed from 12:00 noon on Wednesday, November 25, 2009 through Sunday, November 29, 2009. We will resume standard hours of operation on Monday, November 30, 2009. Any proposal due during this time period should be submitted to the sponsor by noon on November 25th.

In accordance with George Mason University's Winter Break schedule, the Office of Sponsored Programs will be closed December 24, 2009 and will re-open on January 4, 2010. Any proposals due during this period should be submitted to the sponsor prior to the Winter Break. Please submit an on-line request for proposal assistance by using the link: <http://www.randed.gmu.edu/osp/proposal/index.cfm>

American Recovery and Reinvestment Act Update:



As of November 17, 2009 Mason has received 22 awards issued under ARRA for a value of approximately \$11,000,000.00.

ARRA Awards are set up in Banner and have been assigned a unique fund number ending with an "A" in order to easily identify them for reporting purposes.

These awards come with very stringent and detailed reporting requirements. Per Section 1512 of the Recovery Act, reports on the use of Recovery Act funding by recipients are due no later than the 10th calendar day after the end of each calendar quarter, beginning with the quarter ending September 30, 2009.

Additionally, it is imperative that spending on these awards begins as soon as possible and that these awards are spent at an acceptable rate or agencies may reduce funding.

Templates for the December 31st reporting period will be sent out to PI's at the end of November. The majority of the reporting requirements will be handled by OSP, but there is some award specific information that will require PI or individuals with firsthand knowledge of the research to provide. OSP will coordinate data collection efforts with each ARRA PI. If you have any questions related to ARRA funding please contact Beth Ives at 993-2989 or bives@gmu.edu.

Just a Head's Up: E-Verify Clause Takes Effect

Federal contracts awarded or solicited on or after September 8, 2009 which contain the new E-Verify clause require the University to confirm the employment eligibility of (a) all new hires and (b) all employees who perform work directly under the contract.

Some federal contracts are not subject to the rules. They include:

- Contracts for a period of performance of fewer than 120 days
- Contracts valued at less than \$100,000
- Contracts where all work is performed outside the United States
- Contracts for commercial off-the-shelf (COTS) products

OSP is responsible for coding Banner in order to identify awards which contain the E-Verify requirement. Human Resources is responsible for performing the actual verification process.

In order to ensure all employees working on the project are verified prior to work beginning it is critical for funding change paperwork to be submitted to OSP prior to employees beginning work on the project. If you have questions on E-Verify and the impact on sponsored funds please contact Beth Ives at 993-2989 or bives@gmu.edu.



Celebration of Achievements 2009

The Provost and the Vice President for Research & Economic Development hosted the 8th Annual Celebration of Achievements reception on November 4, 2009. The reception is held annually to showcase the Celebration of Achievements publication that honors and highlights select research, scholarly and creative achievements by George Mason University faculty, staff and students for the past year. The reception also serves as a platform for announcing the winners of the Mason Emerging Researcher, Scholar, Creator Award. This year's awardees were the following:

Michelle Buehl, College of Education & Human Development

Songqing Chen, Department of Computer Science

Jon Gould, Department of Administration of Justice.

At the reception, each awardee was honored with a plaque as well as a check for \$ 3,000. Each awardee will also be featured in the upcoming issue of *Mason Research* 2010.

We were also given the opportunity to present a Ralph E. Powe Junior Faculty Enhancement Award to Maria Emelianenko of the Department of Mathematical Sciences. Congratulations again to all!

In addition to the awards ceremony, the reception also included displays created by various academic units. This year's displays included an array of materials such as books, posters, awards, performance pieces, and even a fully functioning robot. We would like to thank the following event coordinators for their unwavering dedication to making this year's event a great success.

Jennifer Anzaldi & Nicole Hitpas, School of Management

Jill Bowen, College of Humanities and Social Sciences

Barbara Cohen, College of Science

Craig Gibson, Information Technology Unit

Deirdre Moloney, Undergraduate Apprentices

Terri Mancini, The Volgenau School of Information Technology and Engineering

Susan Miller, College of Education and Human Development

Keith Segerson & Jocelyn Rappaport, School of Public Policy

Victoria Salmon & Patricia Dieffenbach, College of Visual and Performing Arts

Caroline Valentino, College of Health and Human Services

For a copy of Celebration of Achievements 2009, please contact the Project Manager, Tina Cipara, at lcipara@gmu.edu.

Undergraduate Apprentices Present Their Research

Thank you to all of the Undergraduate Apprentices who presented their projects at the Celebration of Achievements reception. The event attendees truly enjoyed learning about your research.



Kenny S. Cruz - "Effect of an Anti-Microbial Mg-Analogue upon *Francisella*", Faculty Mentor: Dr. Monique Van Hoek



Darshan Desai - "Markers of Insulin Resistance During HCV Treatment: A Relationship to Sustained Viral Response", Faculty Mentors: Dr. Mikhael Estep and Dr. Anna Baranova



Nelya Ebadirad - "Communicating Evidence on Influenza & Vaccination: A critical review of the literature", Faculty Mentor: Dr. Arnauld Nicogossian



Clinton W. Enos - "Characterization of Viral Actin Interacting Factors Required for the Association of the Viral Preintegration Complex with Actin Filament", Faculty Mentor: Dr. Yuntao Wu



Tarek Aziz Lahlou - "Radio Transmitter Localization for Health Care Applications in Rural Guatemala", Faculty Mentor: Dr. Jill K. Nelson



Marlene Willie-Aymone Ouayoro - "Retrieving Economic Parameters in Asset-Flow Equations", Faculty Mentor: Dr. Tim Sauer

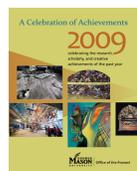


Aazim Siddiqui - "The Influence of Glial Strength on the Onset of High Potassium Induced Epileptic Seizures", Faculty Mentor: Dr. Rob Cressman



S. Minerva Venuti - "Modeling, Analysis and Computation of Fluid Structure Interaction Models for Biological Systems", Faculty Mentor: Padmanabhan Seshaiyer

Request Publications



The Celebration of Achievements 2009 publication highlights research and scholarly achievements of the past year.

To request copies of Celebration of Achievements, please contact Tina Cipara at lcipara@gmu.edu.



The 2009 edition of *Mason Research* examines a sample of new research areas, which were selected from the broad array of work being done by Mason faculty in the areas of global research, justice and society, space sciences, and economics.

To request copies of *Mason Research 2009*, please contact the Office of Research at 703.993.2268.

CONGRATULATIONS - FIRST TIME AWARDEES at GMU



Eric Anderson – English, CHSS; “Faculty Fellowship: On Southern Ground”; Virginia Foundation for the Humanities



Lauren Cattaneo – Psychology, CHSS; “Raymond A & Rosa Lee G Weiss Innovation Research Award”; American Psychological Foundation



Paul Cooper -- Chemistry & Biochemistry, COS; “Electron-and-UV-irradiated Icy Mixtures”; National Science Foundation



Reeshad Dalal – Psychology, CHSS; “Dissecting Situational Strength: Theoretical Analysis and Empirical Tests”; US Army



Pasquale Franzese – Geography and Geoinformation Science, COS; “Measurement and Advanced Modeling of Dispersion in the Urban Environment”; National Science Foundation



Karen Hallows – School of Management; “Strengthening Global Business Education: Gateway to China”; US Department of Education



Cynthia Kierner -- History & Art History, CHSS; Faculty Fellowship: “Martha Jefferson Randolph”; National Endowment for the Humanities



Peter Leeson – Economics, CHSS; “Visiting Professor Services Agreement”; University of Chicago



Fei Li -- Computer Science, VSIT&E; “AF:Small Collaborative Research: Online Scheduling Algorithms for Networked Systems & Applications”; National Science Foundation



Jyh-Ming Lien -- Computer Science, VSIT&E; “Shape Representation of Large Geometries via Convex Approximation”; National Science Foundation

Chee Ng – College of Science; “Shock Acceleration and Transport of Solar Energetic Particles from the Corona to > 1AU”; NASA



Alison O'Brien -- School of Management; “Strengthening Global Business Education: Gateway to China”; US Department of Education



Todd Olmstead -- Mason Enterprise Center, SPP; “Estimating the Price Elasticities of Demand for Illicit Drugs”; Department of Health and Human Services, National Institutes of Health



Huzefa Rangwala -- Computer Science, VSIT&E; “Medium: Collaborative Research: Computational Methods to Advance Chemical Genetics by Bridging Chemical & Biological Spaces”; National Science Foundation



Christopher Saunders -- Applied Information Technology, VSITE; “TRACCC Workplan for Russia”; US Department of State



Hongwei (Howard) Sheng -- Computational and Data Sciences, COS; “NSF/ARRA/Metallic Liquids”; NSF and “Structural Ordering in Supercooled Metallic Liquid Pd-Cu-Si”; Iowa State University



Martin Sherwin – History and Art History, CHSS; “WWIC/Sherwin Fellowship”; Woodrow Wilson International Center for Scholars



Daniel Sklarew -- Environmental Science and Policy, COS; “From the Mountains to the Estuary: From the Schoolyards to the Bay”; Analytic Services, Inc.



David Weisburd -- Administration of Justice, CHSS; “Campbell Collaboration Reviews on Policing”; United Kingdom National Policing Improvement Agency

CONGRATULATIONS - Donna Donaho & Rhonda Troutman

Congratulations to Donna Donaho, OSP Financial Manager, and Rhonda Troutman, Gold Team Post Award Leader, for earning the designation of Certified Research Administrator (CRA). A CRA, through experience and testing, has the fundamental knowledge necessary to be a professional research or sponsored programs administrator. To find out more, visit the Research Administrators Certification Council website.

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