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UAHuntsville

THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

The Research Quarterly

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UAHUNTSVILLE FAMILY WILL MISS

Dr. Maria Davis, Dr. Adriel Johnson, Sr., and Dr. Gopi Podila

Gates of Prayer

author unknown

At the rising sun and at its going down we remember them.
At the blowing of the wind and in the chill of winter we remember them.
At the opening of the buds and in the rebirth of spring we remember them.
At the blueness of the skies and in the warmth of summer we remember them.
At the rustling of the leaves and in the beauty of the autumn we remember them.
At the beginning of the year and when it ends we remember them.
As long as we live, they too will live, for they are now a part of us.

As we remember them.

When we are weary and in need of strength we remember them.
When we are lost and sick at heart we remember them.
When we have decisions that are difficult to make we remember them.
When we have joy we crave to share we remember them.
When we have achievements that are based on theirs we remember them.

For as long as we live, they too will live,
For they are now a part of us, as we remember them.

REST IN PEACE!



Inside this issue:

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NEW AWARDS: October 2009-January 2010

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Principal Investigator	Department/ Center	Title
Dr. James Miller	ISED	ALDoED/Alabama Math, Science and Technology Initiative 2009-2010
Dr. John Pottenger	OIP	International Research & Exchange Board/International Leaders in Education Program (ILEP)
Dr. Jeet Gupta	MIS	DOD/Navy/PGS/Spare-Parts Ordering Policies to Reduce Maintenance & Repair Waiting Time in a Supply Chain
Dr. Mohamed Ashour	CEE	ALDOT/Upgrade of Axially Loaded Pile-Soil Modeling w/the Implementation of LRFD Design Procedure
Dr. Nagendra Singh	ECE	NSF/Micro-Processes Driven by Shear Alfvén Waves Generating Parallel Potential Drop in the Aurora
Dr. Nathan Slegers	MAE	DOD/ARO/Flight Control of a Tethered Rotorcraft
Dr. Kader Frendi	MAE	Orion Propulsion/SBIR Phase II/CFD Support for the OPI Acoustic Igniter
Dr. Lior Burko	PH	NSF/Exploratory Project: Creation of a Case-Study Based Introductory Undergraduate Course on Life in the Universe
Dr. Massimiliano Bonamente	PH	Chandra Science Center/Cosmology with a Complete Sample of $0.15 < z < 0.3$ Massive C-Ray/Lensing/SZE Cluster
Dr. Robert Lindquist	CAO	UAB/Center for Optical Sensors and Spectroscopies
Dr. Patrick Reardon	CAO	Aegis Research/SBIR Phase II/Nominally Conventional Beam Scan Amplifier
Dr. Joseph Geary	CAO	DOD/Army/ARL/Hemispherical Missile Plume Sensor
Dr. Nikolai Pogorelov	CSPAR	NASA/Transient Phenomena in the Distant Solar Wind Derived from the ACE, Ulysses and Voyager Data
Dr. Gary Zank	CSPAR	NASA/Physics of the Inner Heliosheath
Dr. Jakobus Le Roux	CSPAR	NASA/Environmental Stability of Forest Corridors in the Mesoamerican Biological Corridor
Dr. Avinash Khare	CSPAR	NASA/Stability of Heliosheath and Heliospheric Boundaries
Dr. Michael Stewart	ESSC	Lockheed Martin/GOES-R Geostationary Lightning Mapper Implementation Program
Dr. Sundar Christopher	ESSC	NASA/Aerosol Radiative Effects of UAE2 & Indian Ocean Aerosols Using Combined Satellite
Dr. Kevin Knupp	ESSC	NSF/Collaborative Research: Mesoscale and Microscale Processes in Extratropical Cyclones and Mesoscale
Dr. Mikel Petty	CMSA	Gnosys Systems/SBIR Phase II/Alternative Aggregate Combat Modeling Algorithms (DARPA)
Dr. Lynn Boyd	BS	NIH/ARRA/Analysis of ubiquitination enzymes in <i>C. elegans</i>
Dr. Robert McFeeters	CH	ORAU 2009-2010 Visiting Industrial Scientist Program Awardee

Congratulation!

Responsible Conduct of Research (RCR) On-line Web Training

OVPB Norms

1. Communicate openly, directly, and truthfully, with respect for the views of others.
2. Show support for our team, for others at UAHuntsville, and promote the University and its decisions.
3. Find solutions, not just identify problems.
4. Seek first to understand, then to be understood.
5. Trust the motives of our colleagues.
6. Celebrate our successes, and learn from both successes and failures.
7. Hold ourselves and each other accountable to our commitments.
8. Put the global success of the University ahead of local or parochial concerns.
9. Treat everyone as a professional, with courtesy, dignity and mutual respect.
10. Balance our personal and professional lives.
11. Be stakeholder oriented, clarify mutual expectations up front,



The National Science Foundation policy requires that for proposals submitted ON or after 4 January 2010, an institution must have a plan in place 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. As noted in GPC Chapter II.C.1.e, institutional certification to this effect is required for each proposal. In addition, the institution is responsible for verifying that individuals supported by NSF to conduct research have received training in the responsible and ethical conduct of research.

NSF requires:

Certification Regarding Responsible Conduct of Research (RCR): The AOR (Gloria Greene) is required to complete a certification 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.

The Office of The Vice President for Research, Chief Compliance Officer, Dean Graduate Studies and Office of Sponsored Programs are working to develop a comprehensive training program that addresses Responsible Conduct of Research, the committee will consist of faculty, research staff and graduate students. Until a comprehensive university RCR plan is in place, the Office of Sponsored Programs has developed an on-line web training program to meet the basic requirement as established by NSF and other funding agencies.

Pending the development and approval of a campus wide RCR training program, individuals submitting proposals to NSF as either a PI or Co-I must complete the on-line RCR web training prior to the proposal being submitted. Upon completion of the training, the OSP POC will receive an email notifying them that you have completed the training.

The link for the website is: <http://resadmin.uah.edu/resadminweb/information/compliance/rcr.asp> and is located on the OSP website.

I strongly encourage all research staff and faculty, regardless of the funding agency to complete the On-Line Web Training, as this will satisfy your annual RCR required training. It will be the responsibility of the PI to ensure all individuals supported under a sponsored research contract and/or grant complete the training upon receipt of an award or if they are currently charging to an existing contract or grant.

If you have any questions, please do not hesitate to contact me.

Thank you for your cooperation.

Gloria Greene, MA, CRA
 Director
 Office of Sponsored Programs
 Voice: (256) 824-2657
Gloria.Greene@uah.edu

UAHuntsville ARRA Report as of 31 January 2010

ARRA Dollars Awarded	ARRA Dollars Available	ARRA Dollars Expended	Jobs Created/ Retained
\$10,748,470	\$553,421.38	\$702,251.25	54.95

Look up and not down; look forward and not back; look out and not in; and lend a hand.

E. E. Hale



Dear Colleagues:

I hope these words find you well.

February marks the one-year anniversary of my association with UAHuntsville as the Vice President for Research. It has been a year in which I have come to see many of the exceptional attributes of the University that are simply not fully visible from an external perspective. I have come to know some wonderful people, to learn more about their research and academic interests, and to connect with students.

On such anniversaries, one is tempted to look backwards, reflect, and see what has happened – both good and bad – and to spend some time absorbing the past 12 months. I could do this here, and share many exceptional happenings at our University. Scientists from Physics and CSPAR shared authorship in research papers that graced the cover of *Science* magazine. Dr. Gang Li and Dr. Vladimir Florinski were awarded NSF Career Awards. Dr. Kristina Johnson, Deputy Administrator of the Department of Energy, gave a fantastic Commencement Address, and perhaps an even more impressive luncheon address, discussing many of the challenges and opportunities experienced by our women faculty and staff. UAHuntsville had an exceptional ‘sampler’ of the visual and performing arts, outdoors at the Lowe House, one of my favorite events of the year. Professor Clarke Rountree was awarded the prestigious Kohrs-Campbell Prize in Rhetorical Criticism. I could go on...

But instead of reflecting on the past year, I would rather use this time to put a focus on the coming year, and what we want to accomplish as a community. There are some very encouraging signs in our landscape, and these should help fortify us to engage the growth of our University ever more.

Enrollment is up here at UAHuntsville, by about 5%. It was this increase in enrollment – driven in large part by the efforts of the faculty and staff to attract and retain students – that enabled a 7.5% proration to be made manifest as only a 2.2% adjustment to the books. In my view, this is a key window into how growth can be a solid strategy to deal with many economic challenges.

Just last week, the Board of Trustees passed a resolution establishing a PhD and Master’s Degree program in Modeling and Simulation at UAHuntsville. One of only three Universities in the United States to offer this program, the beginning of this enterprise on our campus in the Fall of 2010 promises to provide exceptional opportunity for our students, a cutting-edge degree, and extreme relevance to the problem-sets and challenges extant in our community.

Dr. Caron St. John will be arriving in March as our new Dean in the College of Business Administration, and we expect to announce the hiring of an equally exceptional leader for our College of Engineering this spring as well. In times of cut-backs to state budgets, other State systems reducing their faculty, or eliminating programs, UAHuntsville is in a position to grow through selective key hires in important leadership positions.

The Federal budget for Research, announced last week by the President, proposes a trajectory for Federal R&D dollars that will approximately double the amount of funding available. While presenting other serious challenges for our community – including the proposed cancellation of NASA’s Constellation Program and the Ares rockets therein – such an increase in the amount of resources available for fundamental research and development, especially within the University environment, also promises to bring great opportunity for UAHuntsville and our community.

Our strategic partnership with CATHALAC in Central America has led to the first ten-week 2010 summer session in Climate Change and Sustainability to be taught in Panama. A three-credit-hour course within the College of Science, this activity is a great opportunity for UAHuntsville students to immerse themselves in the

language, culture, and environmental challenges of Central America. This unique chance to understand the tools of remote sensing, satellite observations, and technology to address these challenges, is only just the beginning of what could be possible between UAHuntsville and partners in this important region of the world.

I spared this article a list of 'accomplishments' the University achieved in the first year I was here, and there could be an equally lengthy list of 'opportunities' as well. My objective here is not to make lists, but to illustrate that important building blocks – those elements in our environment that will enable us to create an even more tremendous University than the one we have – are all around us. They exist as accomplishments in our recent past, as well as opportunities in our immediate future.

So what shall we do with the next year before us? To build the University we want, rather than one we'll settle for, I believe we must focus on developing the building blocks we have, integrating them, creating more building blocks where we can, and committing ourselves to growth in ways that go beyond our own particular spheres, interests, or domains. Like stones in a cathedral, our individual building-blocks of excellence can be exquisitely carved and shaped as unique works of exceptional artisanship. But the greater value of these individual building-blocks of excellence is derived uniquely from the extent to which they are meaningfully connected to other colleagues' building blocks.

This interconnectivity takes many forms. Processes need to be aligned and interconnected to make positive outcomes predictable and repeatable. Colleagues need to be interconnected to facilitate the emergence of new ideas, to foster innovation, and maintain a presence on the cutting edge of research. Information must flow, and be driven, so that the entire organism shares an awareness of the environment. Academic and research activities need to be seen as integral parts of the same enterprise.

A Research University that does not have alignment between and integration among these activities is one that is operating at a level lower than the level of its full potential. I want to work together to raise the state of UAHuntsville to a level more close to our potential. In the coming weeks and months, I'll be asking the community to support a group of faculty and staff who will convene to discuss ways in which we can better integrate our assets to generate an even more vibrant and robust research environment as a part of UAHuntsville.

This committee, directed by the President, is a direct result of the recent visit from Dr. Robert Ferguson's team, and their now-widely-distributed report on the state of the University. In my view, this report told us little that we did not already know about ourselves. But it has the benefit of enabling us to focus on a few important things that we can do to improve our progress towards making UAHuntsville a top-100 Research University, and improved integration and better alignment of research activities across UAHuntsville are two ways to make this happen.

When the UAHuntsville as a whole 'does well,' we shall all as individuals do 'well enough.' This is outcome what I hope we can work on together in the next year.

John M. Horack, Ph.D.

Vice President for Research
University of Alabama in Huntsville
Huntsville, Alabama 35899
john.horack@uah.edu



OSP Funding Opportunities Resources

Community of Science

Looking for potential funding opportunities? Have you tried Community of Science (COS)?

COS is the leading global resource for hard-to-find information critical to scientific research and other projects across all disciplines.

To access COS from the OSP Website, under the PROPOSAL TAB “Funding Sources”
<http://www.uah.edu/research/resadmin/index.html>

To learn more about COS, please contact **Steve Parker** at 2654 or parkerjs@uah.edu

Grant Advisor

<http://www.grantadvisor.com/tgaplus/>

Weekly Funding Bulletin

The OSP Weekly Funding Bulletin is an abstract of funding opportunities from various agencies such as NASA, DOE, DOD, NIH, NSF, Private Foundations, and State Agencies. It includes special topic announcements from the agencies, as well as the dates and times of OSP selected solicitation reviews. The bulletin is sent via email each week.

If you would like to receive the Funding Bulletin, please send an email to: ospweeklyfundingbulletin@uah.edu, or contact **Susan Phelan** at 3747 or Susan.Phelan@uah.edu

Office of The Vice President for Research—2010 Mini Grant Recipients

Principal Investigator	Department	Title
Dr. Gang Li	Physics	Current Sheet Structures in the Inner Heliosphere
Dr. Lingze Duan	Physics	Atmospheric Delivery of Microwave Clocks using Optical Frequency Combs
Dr. Jason Smith	Sociology	Social Capital, Leading Crowds, and Extracurricular Participation
Dr. Babak Shotorban	Mechanical/Aerospace	Nonisothermal Large-eddy Simulation of Particle-Laden Turbulent Flows Through Equilibrium Eulerian Approach
Dr. Nicholaos Jones	Philosophy	Metaphysical Foundations and Huayan Buddhism
Dr. Jose Betancourt	Art/Art History	Printed Half-Frame Panoramas
Dr. Dawn Bardot	Mechanical/Aerospace	Validation and Uncertainty Quantification of Femoral Artery Hemodynamic: Simulations and In Vitro Experiments
Dr. Moongyu Park	Mathematics	On Developing and Analyzing Mixed Finite Element Methods for the Valuation of Options on Assets with Stochastic Volatilities
Dr. Electra Gilchrist	Communications Arts	Athletic-Academic Advisors’ Use of Compliance-Gaining Strategies w/College Student Athletes
Dr. Dengpan Liu	Economics/Info Sys	Dynamic Competition in IT Security Investments: How Not to be the Preferred Target
Dr. John Kvach	History	The Antebellum South and the World, 1790-1870
Dr. Zuejing Xing	Accounting/Finance	Why are IPOs Underpriced? The Role of Institutional Ownership
Dr. Jacob Heerikhuisen	Physics	An Investigation into Heavy Interstellar Neutral Atoms in Heliosphere
Dr. Seyed Sadeghi	Physics	Electromagnetic Control of Quantum Dot Emission via Metallic
Dr. Jody Price	Psychology	Retrieval-Induced Forgetting: Does Timing of the Warning Affect the Amount of Forgetting for Younger
Dr. Vladimir Florinski	Physics	(NSF CAREER) Computational Space Physics for Research and Industry

WELCOME TO UAHUNTSVILLE



Susan J. Phelan has over 25 years of diversified experience in proposal development, management and preparation; grant writing; technical writing and editing. Susan received a Bachelor's Degree in English with a Writing Minor from Loyola Marymount University in Los Angeles. Susan joined the UAHuntsville Office of Sponsored Programs as the Grant Writer on November 18, 2009.

Prior to joining UAHuntsville, Susan worked for five (5) years at Alabama A&M University. Her responsibilities there included writing grants, assisting faculty members to write grants, and ensuring the university is compliant with federal regulations concerning research involving human subjects, animal care and use, and biosafety issues. She currently serves as the editor of the Textbooks and Learning Materials Program, a multi-year USAID grant and a component in the Africa Education Initiative, which has provided more than 1.5 million English textbooks to Ethiopian elementary and middle school children.

Originally from California, Susan moved to Huntsville with a job on the Space Shuttle program in 1987. She has worked for several major aerospace companies and writes grants for several not-for-profit organizations. Outside of work, Susan is a proud graduate of Leadership Huntsville/Madison County Class 21, a member of the Women's Economic Development Council (WEDC), and sits on the Board of Control for the Huntsville Ice Skating Complex. She also enjoys hiking and other outdoor activities, movies, music, reading, singing and drumming in a local chorus, and walking her dog. Susan's office is located in VBRH E31. She can be reached at X3747 or Susan.phelan@uah.edu.



Marilyn C. Thomas, CPA, JD is an Alabama licensed Certified Public Accountant and Attorney, with over 20 years of accounting/business management experience and recent experience as an attorney. Marilyn's varied years of professional experience and skill sets will transfer well in her position as UAHuntsville Chief Compliance Officer.

Marilyn has performed and supervised forensic accounting and legal discovery services, while d/b/a Thomas Law Firm, LLC; was the Director of Auditing and Associate Counsel for Portfolio Recovery Associates; Chief Financial Officer/Comptroller for Bessemer State Technical College; and an Internal Revenue Agent for the Internal Revenue Services (IRS). Marilyn joined The Office of The Vice President for Research as the Chief Compliance Officer on January 20, 2010.

Marilyn passed the Alabama State Bar in April 2005. She received her Juris Doctor Degree from Birmingham School of Law in August 2004. She is a Certified Public Accountant and received her Master of Professional Accountancy Degree, from Jackson State University. Marilyn received her Bachelor of Science Degree (Accounting) from The University of Southern Mississippi. Marilyn's office is located in VBRH E41. She can be reached at X 5241 or Marilyn.thomas@uah.edu.



Barbara (Barbie) Czura is a UAHuntsville Graduate, BA English/Business Administration, 2006. Before coming to UAHuntsville as a Contract Administrator, Barbara was a Bureau (Regional) Reporter for WAFF 48 News, Huntsville, AL. Barbara was an administrative assistant in the NSSTC and prior to that she was a UAHuntsville Student Affairs Assistant (COMPASS Counselor). Barbara is the Contract Administrator for the College of Engineering, Center for Applied Optics (CAO), Alabama Department of Transportation (ALDOT) and the University Transportation Center for Alabama (UTCA). Barbara's office is located in VBRH E28. She can be reached at X2659 or Barbara.czura@uah.edu

Please join me in welcoming Susan, Marilyn and Barbara to the UAHuntsville Community. Please stop by and introduce yourself.

UAHuntsville

THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

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PROPOSALS AND AWARDS

	<u>October—January</u>		<u>FY2009</u>		<u>FY2010</u>	
		<u>Number</u>	<u>Value</u>	<u>Number</u>	<u>Value</u>	
Proposals		200	\$34,066,155	233	\$63,912,677	
Awards		367	\$22,495,534	470	\$31,359,138	
*Expenditures (YTD)			\$19,637,573		\$22,530,102	

*Expenditures do not include construction

NSF OIG and Effort Reporting

Effort Reporting has become the foreboding catch-all term that covers a wide range of topics associated with payroll distribution, institutional compensation policies, federal salary-charging compliance, to name a few.

Currently, there is an ongoing labor and effort audit program being conducted by the NSF Office of Inspector General. While this program is soon to be completed (the NSF OIG expects to release a "capstone" summary later this year), effort reporting remains a "hot topic".

A number of DOJ settlements have been finalized over the past twelve months, and it is conceivable that effort reporting will be a topic during ARRA audits and compliance reviews.

Former Nursing Professor at Tennessee State University Guilty of Misconduct

James Linn, a former professor of nursing at Tennessee State University, committed research misconduct by "knowingly and intentionally falsif[y]ing and/or fabricat[ing] the data and results of a study in which he purportedly tested

the effects of an intervention to reduce sexual risk behaviors in high risk, impaired populations of homeless men with mental illness by reporting false values for variables" recorded in tables published in a 2003 article in *Cellular and Molecular Biology*.

The misconduct finding was published in the Jan. 28 *Federal Register* by the Office of Research Integrity. Linn did not admit guilt and requested a hearing to appeal ORI's finding, but he later withdrew his request.

The research was funded by the National Institute of General Medical Sciences. Linn was debarred for three years, beginning Jan. 7, from contracting or subcontracting with any agency of the U.S. government, from eligibility or involvement in certain nonprocurement programs, and from serving in any advisory capacity to the Public Health Service, including as a member of an advisory or peer review committee.

Links:

<http://edocket.access.gpo.gov/2010/pdf/2010-1706.pdf>;
<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-10-058.html>

The Office of Sponsored Programs' (OSP) mission is to support three distinct groups: 1) UAHuntsville faculty, students and research staff; 2) UAHuntsville administration; and 3) our funding sponsors.

OSP strives to maintain balance among these groups by reviewing proposals to external funding agencies, proper fiscal management of funds received, and oversight of compliance matters related to external agencies and the federal government.

OSP's role is to support the faculty, staff, and administration of UAHuntsville in effectively seeking, obtaining, and managing their research and scholarly activities to enhance their educational role.