

Research A&T

DIVISION OF RESEARCH & ECONOMIC DEVELOPMENT
NORTH CAROLINA A&T STATE UNIVERSITY
EDWARD B. FORT INTERDISCIPLINARY RESEARCH CENTER

EDITOR'S NOTE:

This is the eleventh in a series of stories featuring University Approved Centers.

Center of Excellence Fills The Gap...

UPCOMING EVENTS

**Developing Proposal
Budgets**

&

**Proposal Submission
Made Easy**

(Lunch and Learn)

**November 11, 2008
410 Fort IRC
12 p.m.-1 p.m.**

To register for these events, please visit:
<http://ncat.edu/~divofres/services/training.php>



The Center of Excellence in Post-Harvest Technologies (COEPHT) researches agricultural commodities after harvest.

COEHT focuses on fruits and vegetables for the purpose of preservation, conservation, quality control/enhancement, processing, packaging, storage, distribution, marketing, and utilization to meet the food and nutritional requirements of consumers in relation to their needs.

A&T operates COEPHT as part of the North Carolina Research Campus (NCRC). The NCRC combines the research power of North Carolina Universities in order to provide breakthrough technologies in nutrition and health by fostering collaborations among scientists with expertise in food, nutrition, medical sciences, etc.

NCRC was created to combine the research power of North Carolina State and the University of North Carolina at Chapel Hill, however A&T researchers recognized an opportunity between what NC State provides for the Campus which is the production selection of plant lines, and safe production, and what UNC Chapel Hill provides which is nutrigenomics and chronic diseases treatment and prevention.

“There was a gap in the NCRC”...“ A&T provides the missing step of post harvest technologies which is the processing and product development,” said Dr. Mohamed Ahmedna, Co-Interim Director for COEPHT and Associate Professor of Family and Consumer Sciences. “We connect the plant line selection of NC State and the chronic diseases treatment and prevention research conducted by UNC Chapel Hill by processing product development and safety.”

Dr. Ahmedna states that not only does the Center fill a gap in the NCRC and coincide with program initiatives in the School of Agriculture and Environmental Sciences, but he also feels the Center is the natural next step of the work being done with food nutritional sciences, and offers the opportunity for growth.

The Center has three core activities. The main focus of these activities is research through which the Center concentrates on the development of functional foods (foods with health promoting aspects and disease prevention functions), eliminating food contaminants without contaminating the product, storage stability, and adding value to food and non-food use, e.g. bioenergy and biofuel. The additional activities of COEPHT are outreach that focuses on research and extension partnerships, and education that encourages onsite graduate student research.



Dr. Mohamed Ahmedna, Co-Interim Director for COEPHT and Associate Professor of Family and Consumer Sciences



Dr. Von Best Whitaker is an associate professor in the School of Nursing.

Whitaker Receives Prestigious Award

Dr. Von Best Whitaker was recently named the Research Nurse of the Year by the North Carolina Nurses Association, at their annual awards luncheon. This award comes after an extensive career in nursing research.

Whitaker received a bachelor's degree in nursing from Columbia Union College, a master's degree in nursing education from the University of Maryland, and a master's degree and Ph.D. in Social Psychology from the University of North Carolina at Chapel Hill. Whitaker has taught and practiced community health nursing, ophthalmic nursing, research and psychology, at several universities including the University of

Missouri-Columbia, University of Texas Health Science Center at San Antonio, Boston College, and Howard University.

Whitaker was also a member of the Cataract Guideline Panel. She was the only member endorsed by three organizations: The American Nurses Association, the American Society of Ophthalmic Registered Nurses, and the American Academy of Ophthalmology. This "ball of energy," as she is described by her colleagues is a veteran researcher and educator. She serves as a social psychologist and research associate professor in the School of Nursing.

Institutional Review Boards (IRB): Exempt Research Series I

****This series is designed to provide insight into frequently asked questions about IRB's**

Who determines if research is considered exempt?

The IRB reviews research and determines if it is exempt. At many institutions, a member of the IRB or administrative staff makes the determination; therefore, the research must be reviewed before being deemed exempt.

The Regulations: The Office of Human Research Protections (OHRP) recommends that the decision to exempt a research study from IRB review is made by someone other than a research investigator associated with the project. In some cases, many investigators (and department chairs) do not have sufficient knowledge of the federal regulations to properly determine, whether research is exempt. In addition, they have an obvious conflict of interest. Some organizations choose not to exempt any projects, and use either expedited review or review by the full IRB for all human subjects research.

NC A&T IRB Policy: Research projects may be determined exempt at NC A&T, however, researchers must apply for IRB approval. In the past, department chairs were allowed to make the determinations. However, this policy has been changed due to reasons cited by OHRP.



Participants listen to a presentation on grant writing during the North Carolina Biotechnology Center Research Grants Information Session.

Are you getting announcements?

Have you joined the community of science?

If not please send your name, department, cluster affiliation, email address, and phone number to Peggy Bolick at mrbolick@ncat.edu



Funding Notices

Deadline changes! The due dates for internal notices of intent for two limited submissions, NSF's **Major Research Instrumentation Program** and NIH's **Bridges to the Baccalaureate** have been changed. The notices of intent are due on November 17, 2008 by 4:30 pm. The due date for the abstracts remains December 1, 2008

It's already time to start thinking about **Higher Education Research Experiences at Oak Ridge National Laboratory for Faculty** for next summer. Check out the summer programs for faculty at <http://www.ornl.gov/hereatornl>. The deadline is continuous but please don't wait until spring to apply.

Funding Notices cont'd pg. 3



Dr. Cynthia Sollod, Science & Technology Development Programs Manager for the North Carolina Biotechnology Center makes a presentation during a research grant information session.

Funded Proposals September 1, 2008– October 23, 2008

AWARD TITLE	AWARD	ORIGINAL PI	AWARD ADMIN DEPT
Africanarray: Imaging The African Superplume, Building African Partnership And Enhancing Diversity In The Geosciences	\$118,470.00	Bililign, Solomon	Physics Dept
Agroforestry And Sustainable Vegetable Production In Sea Watersheds	\$309,660.00	Reyes, Manuel	Natural Resources - Env Design
Adjoint- Based Methodology For Time- Dependent Optimal Control	\$26,000.00	Yamaleev, Nail	School of Arts and Sciences
Strengthening Institutions Development Program	\$5,491,230.00	Murray, Kenneth	Division Of Academic Affairs
Adaptive and Fault-Tolerant Trajectory Tracking Control	\$9,057.00	Song, Yong-Duan	Electrical And Computing Engineering Department
Center for Nanoscience and Nanomaterials (Materials and Development for NAVY Applications	\$1,080,000.00	Sankar, Jagannathan	Mechanical and Chemical Engineering
The 1890 Land Grant System Addressing Universal Issues Through Science and Engagement	\$10,000.00	Thompson, Alton	Agri Bus Appl Econ & Ag Sci
Investigations in Intermediate Energy Spin Physics	\$183,476.00	Danagoulian,	Physics Dept
Collaborative Project: Carolina Cyber Defender Scholarship	\$1,163,001.00	Yu, Huiming	Civil Engineering
Revolutionizing Metallic Biomaterials	\$3,250,000.00	Sankar, Jagannathan	Mechanical and Chemical Engineering
Production of Biodiesel and Biopower from Waste Materials to Improve Energy Security and Mitigate Greenhouse Gas Emissions	\$770,180.00	Shahbazi, Abolghasem	Natural Resources / Env Design
"Conduct Detailed Energy Surveys, Preliminary Benchmarking M&V and Follow Up Validation M&V in North Carolina	\$75,000.00	Singh, Harmohindar	Civil, Architectural, Agricultural And Environmental Engineering Department
A student internship program to Support GIS Research and Education: 2008-2009 Continuation	\$10,000.00	Fersner, Peggy	Civil, Architectural, Agricultural And Environmental Engineering Department
College Cost Reduction and Access Act of 2008	\$1,575,729.00	Murray, Kenneth	Title III Coordination
AMRDEC Logistics Engineering Support	\$99,999.00	Stanfield, Paul	Industrial And Systems Engineering Department
Establishing a Graduate Interdisciplinary Liberal Engineering Ethics Curriculum	\$49,896.00	Park, Eui	Industrial Engineering Dept
Title III Strengthening Historically Black Graduate Institutions (HBGI) Programs	\$2,148,069.00	Murray, Kenneth	Title III Coordination
Enhancing Incomes of Small Farms And Business Through Efficient Production And Marketing Operations	\$100,000.00	Yeboah, Osei-Agyemang	Agri Bus Appl Econ & Ag Sci
Carolina Cyber Defender Scholarship Program	\$44,765.00	Yu, Huiming	Computer Science Department

Funding Notices (cont'd)

The National Science Foundation's new guide to proposals and awards is ready. It is effective for proposals submitted on or after January 5, 2009. In the interim, the guidelines contained in NSF 08-1 continue to apply. Proposers responding to a funding opportunity with a due date on or after January 5th must comply with the guidelines in NSF 09-1. Available Formats:

HTML: http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_1/index.jsp?govDel=USNSF_109

PDF: http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_1/index.pdf?govDel=USNSF_109

See the full announcement at http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf08610.

There is now an earlier deadline for DOE's Plasma Science Centers sponsored by the Chicago Service Center (Funding Opportunity Number: DE-PS02-08ER08-25).

THE DUE DATE ON THIS NOTICE HAS BEEN CHANGED FROM FEBRUARY 2, 2009 TO JANUARY 30, 2009.

<https://e-center.doe.gov/iips/fopor.nsf/1be0f2271893ba198>

For the complete list of
Funding
Announcements,
Visit our website:
<http://research.ncat.edu>

The Office of Naval Research has announced its Fiscal Year 2009 ONR Young Investigator Program (YIP), funding opportunity number ONRBAA09-005. The closing date for applications is January 12, 2009

The Robert Wood Johnson Foundation recently announced this year's New Connections: Increasing Diversity of RWJF Programming (Junior Investigators Program). The foundation will award up to 12 two-year grants of up to \$75,000 each during this fourth funding round. The deadline for receipt of brief proposals is **November 13, 2008**. Invited full proposals will be due on March 12, 2009.

URL for more info <http://www.rwjf.org/applications/solicited/cfp.jsp?ID=20141>



Advaero Technologies, INC Works Close to Home

Technology developed by Dr. Ronnie Bolick, research associate in Computational Science and Engineering, has contributed to the development of a start-up company- Advaero Technologies, Inc.

Founded as a spinoff of Bolick's research, Advaero's focus will be developing and manufacturing unique, advanced composite structures, parts, assemblies and manufacturing processes.

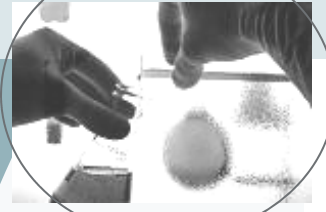
Additionally, the company will offer design, engineering and testing services for clients requiring composite materials analysis and expertise.

Working closely with the company and Bolick is Dr. Ajit Kelkar, director of the computational science and engineering program. The two have worked on a number of Department of Defense research projects in the past.

According to Bolick, one of the most beneficial aspects of branching out will be providing students with in house, on-the-job training. "Students will have more opportunities for certifications and jobs as a result," said Bolick.

Bolick and Kelkar will be working with Advaero to rebuild and create projections parts for a U.S. Marine helicopter called C Knight.

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First project with Advaero, building and rebuilding projection parts for Marine helicopter, C. Knight (left)

A&T students working on damaged piece of helicopter (right)



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