



Upcoming Events

"Lunch and Learn" Workshops

Proposal Development
February 12, 2009
12:00-1:00 p.m.
Fort IRC, Rm. 410

RAMSeS Training
February 19, 2009
12:00-1:00 p.m.
Sponsored Programs
Conference Room, Fort IRC

***Faculty are reminded to submit a Notice of Intent Form when they are planning to submit a proposal. Forms are on the DORED website at <http://www.ncat.edu/~divofres/forms/index.php>.

Behind the Technology Transfer Scene: Louis Judge

Senior Licensing Associate, Louis Judge, approaches his fifth year in the Office of Technology Transfer (OTT) at A&T with great spirit and motivation. Judge is responsible for managing the patent process of promising technologies that arise from world-class research conducted on the campus of A&T. This enables OTT to connect industrial/commercial partners with A&T's expertise, products and opportunities.

An inventor must fill out an invention disclosure form and submit it to the OTT. Judge then evaluates the ideas through the Triage checklist, a question and answer form that helps to determine the possible success of the invention. Then the invention is patented and licensed to outside companies. In some cases, inventions that go through the OTT office create university based start



Louis Judge, Senior Licensing Associate in front of university patent gallery located in the Fort IRC Building

up companies that allow the product to be mass produced.

Judge is an alumnus of the Aggie family. He graduated from A&T in 2003 with a Bachelor of Science in Computer Technology. After graduating, he received his technology transfer certification from the National Technology Transfer Center at Wheeling

Jesuit University in West Virginia. Judge chose to work within the technology transfer industry because he was intrigued by intellectual property and start up companies. Before coming to A&T Judge worked at NASA doing technology transfer.

Judge has two student licensing assistants; junior, business major, Reginald Taylor and senior, manufacturing major, Henok Shiferaw. "I like it and since I started working it has been a great experience" said Shiferaw about being a student worker in OTT.

Judge is currently pursuing his master's in business administration at Winston Salem State University.

For more information regarding OTT visit <http://research.ncat.edu/ott/> or contact Louis Judge at 336-334-7996 ext 4005



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Faculty Spotlight: Catherine Dinitra White

Dr. Catherine Dinitra White, Assistant Professor in the Biology Department, is diligently conducting research and implementing programs.

White, along with Dr. Gregory Goins, Associate Professor in the Biology Department, has been funded by the NASA space consortium to simulate microgravity and grow *H. influenzae* to see if the bacterium changes in any way. Will microgravity affect bacterium growth? Will the production of a film (biofilm) that protects the bacterium be altered? Will the outer membrane of the bacterium change?

“A lot of research has been done on what happens to the human body in space, but not a lot of research on gravity’s effect on microbes that live on and inside our bodies,” said White.

Haemophilus influenzae (*H. influenzae*) represents a group of bacteria that may cause different types of infections, and unlike the influenza virus, this bacterium is known for causing ear, eye and sinus infections in children and upper respiratory disease in the elderly or individuals with weak immune systems.

White has also implemented two programs — CASE-IT! and Students Hot on the Sciences (SHOTS). CASE-IT! is a science education grant funded by the National Science Foundation. This project uses a computer based laboratory to focus on

genetic and infectious disease cases. SHOTS is a six week program, available to rising juniors and seniors from high schools in North Carolina. The program offers the students a chance to interact with faculty and take several freshman science courses.

During the six week program the students are also required to take a research course which White teaches.

“Trying to get students interested in science early on is the only way to keep them in the pipeline; we’ve got to get them hands-on experience,” said White.



Dr. Catherine Dinitra White, Assistant Professor in the Biology Department

Williams Earns Research Certification

Adonica Williams, budget manager for the Division of Research, was recently awarded the designation of Certified Research Administrator (CRA). The certification is a milestone in an extensive research administration career.

Williams has worked in the research profession for over 10 years. "The CRA designation solidifies my commitment to the profession," said Williams. To secure this designation, Williams was required to show proof of her educational background and experience, as well as, pass a 250 question written examination developed by the Research Administrators Certification Council and administered by the Professional Testing Corporation.

Williams earned a B.A in Accounting from Bennett College. Upon graduation, she relocated to New Jersey to work as a Staff Accountant for the Prudential Insurance Company's corporate office. She has also held positions with Forsyth-Stokes County Mental Health and Bennett College. She joined A&T in 2001 as a Contracts and Grants Accountant, and assumed her current position three years later.



*Adonica Williams,
Budget Manager for the
Division of Research &
Economic Development.*

LIMITED SUBMISSIONS

The National Science Foundation (NSF), the National Institutes of Health and some private foundations limit the number of proposals that an institution can submit. In these cases, an internal competition to decide which proposal goes forward is held. The internal deadlines for these competitions are posted on the division's website. In February, the National Science Foundation's Integrative Graduate Education and Research Traineeship Program, NSF 08-540, will be competed

Important Dates to Remember:

- February 3: Internal Notice of Intent due
- February 10: Proposal Abstract due
- March 13: Pre-proposal submissions due

Full proposals can only be submitted if the PI(s) are invited by the NSF. Be sure to check the upcoming limited submission deadlines for March, by visiting us online at:

<http://www.ncat.edu/~divofres/services/funding-alerts.php?limited=Yes>.

Sponsored Programs Updates:

- All proposals are now submitted to the Office of Sponsored Programs (OSP) through RAMSeS
- Notices of Intent should be completed and emailed to the RAMSeS mailbox at ramses@ncat.edu
- There is a link for RAMSeS on DORED's homepage. Any A&T employee may log into the system using your NCAT email handle and password

The Division of Research is offering training sessions for Principle Investigators and approval training sessions for chairs and deans. Individual and small group sessions are available. Please call the OSP at 334-7995 to schedule a session with Ms. Liwen Han (lhhan@ncat.edu)

Special Note to PI's

- When ordering equipment, include justification and an explanation of the purpose and use of the equipment
- Read and understand what the individual award(s) stipulates
- Be aware that in some instances, prior agency approval is required before submitting proposals

OHRP Announces New Research Guidelines

In the past, the Office of Human Research Protection has given guidance in defining when an institution is considered engaged in research. This information will clarify the university's IRB policy and discuss the latest guidelines for off-site research activities.

A&T IRB Policy:

It is A&T IRB policy to review and approve all projects involving human subjects regardless of where subject recruitment will take place. This policy operates under the premise that approval by A&T IRB ensures that projects undertaken by our researchers will not jeopardize the University's assurance to protect human subjects. In other words, in most cases, A&T's IRB is well equipped to make a determination of the University's behalf. Exceptions would be certain biomedical studies which require expertise that A&T IRB members would not be able to provide.

To view the full document and examples, you may go to <http://www.hhs.gov/ohrp/humansubjects/guidance/engage08.html>

The new guidelines state institutions are considered engaged in a research project when the involvement of their employees or agents in that project includes any of the following:

- (1) Institutions that receive an award through a grant, contract, or cooperative agreement directly from Health and Human Services or the non-exempt human subjects research, even where all activities involving human subjects are carried out by employees or agents of another institution.
- (2) Institutions whose employees or agents intervene for research purposes with any human subjects of the research by performing invasive or noninvasive procedures.

Funded Proposals November 1 – December 31, 2008

AWARD TITLE	AWARD	ORIGINAL PI	AWARD ADMIN DEPT
ONR/HBEC Future Faculty Fellowship Program Sponsor: DOD - Navy/ONR	\$504,000.00	Monroe, Joseph	College of Engineering
MBRS Research Initiative for Scientific Enhancement at NC A&T SU Sponsor: US Department of Health & Human Services	\$110,894.00	Byrd, Goldie	Biology Department
Rapid Assessment of Food Allergens and Allergy Biomarkers Sponsor: UNC-Greensboro	\$30,477.00	Ahmedna, Mohamed	Human Environment/Family Sciences
The Effect of Organic Solvent Molecules in Disrupting Metal-Metal Interactions Sponsor: American Chemical Society	\$50,000.00	Assefa, Zerihun	Chemistry Department
Student Support Initiative Enrollment and Enhance Technical Expertise of Majors Sponsor: USDA-NRCS Natural Resources Conservation Service	\$50,000.00	Gayle, Godfrey	Natural Resources/Environmental Design
An Integrated Process for Production of Ethanol and Bio-Based Products from Lignocellulosic Biomass Sponsor: USDA-CSREES-1890 Capacity Building Program	\$499,272.00	Wang, Lijin	Natural Resources/Environmental Design
Materials and Manufacturing Research Sponsor: Clarkson Aerospace	\$100,000.00	Kelkar, Ajit	Mechanical and Chemical Engineering
Erwin R. Belk Track and Field Additions and Renovations at Aggie Stadium Sponsor: Greensboro Area Convention	\$15,000.00	Edrington, Billy	Director of Athletics
Characterization of Gen 1.1 HiPerComp Prepreg MI Sic/Sic Material Subjected to Foreign Object Damage Sponsor: University of Dayton-Research Institute	\$43,500.00	Sankar, Jagannathan	Mechanical and Chemical Engineering
The Sensors Technical Thrust Projects Sponsor: Clarkson Aerospace	\$83,300.00	Radhakrishnan, Narayanaswamy	Electrical Engineering Department
North Carolina Biotechnology Funding Project Sponsor: North Carolina Biotechnology Center	\$139,500.00	Radhakrishnan, Narayanaswamy	Division of Research and Economic Development
Precision Measurement of the Neutral Pion Sponsor: Hampton University	\$62,931.00	Gasparian, Ashot	Physics Department
National Center for Engineering and Technology Education (NCETE) Subcontract Sponsor: Utah State University	\$38,158.000	Childress, Vincent	Graphic Communication Systems/Technology Studies
Head Start Historically Black College and University Partnership Sponsor: US Department of Health & Human Services	\$150,000.00	Purcell, Rosa	Human Environment/Family Science
Collaborative Research: ARI-MA: Nuclear Data Measurements on Actinides Using the High Intensity Gamma-Ray Source Sponsor: Department of Homeland Security	\$62,813.00	Pedroni, Ronald	Physics Department
Center for Energy Research and Technology Sponsor: State Energy Office	\$399,000.00	Singh, Harmohindar	Civil, Architectural, Agricultural and Environmental Engineering Department
Advanced Epoxy System for Large Scale Composite Ship Component Manufacturing Using the VARTM Process Sponsor: Triangle Polymer Technologies	\$150,000.00	Kelkar, Ajit	Computational Science & Engineering Department
Interdisciplinary Project-Based Course Modules Development and Incorporation to Improve the Earth Science Program and Student Recruitment Sponsor: USDA/1890 Capacity	\$199,322.00	Diouf, Arona	Natural Resources/Environmental Design
New Synthetic Routes in the Development of Smart Molecules Sponsor: UNCFSP-United Negro College Fund-Special Programs	\$25,000.00	Harp, Julius	Chemistry Department
Seeding Postdoctoral Innovators in Research and Education Sponsor: UNC-Chapel Hill	\$4,000.00	Byrd, Goldie	Biology Department
Post Harvest Technologies and Food Sciences Related to Nutrition and Health Concerns Sponsor: UNC-OP-Office of the President	\$1,663,295.00	Turner, Carolyn	School of Agriculture and Environmental Sciences