

32ND ANNUAL UNIVERSITY-WIDE RESEARCH SYMPOSIUM

MARCH 15-19, 2010

RESEARCH:

CELEBRATING
EXCELLENCE



TENNESSEE
STATE UNIVERSITY

UNDERGRADUATE RESEARCH:

A LEADING PERSPECTIVE ON INVENTING THE FUTURE



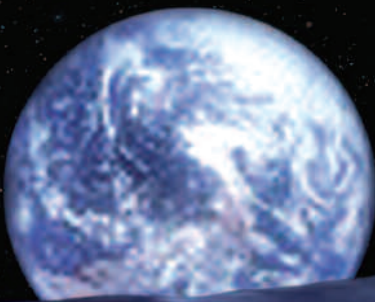
Qualified
Students
Welcome



The Center of Excellence in Information Systems Engineering and Management is an interdisciplinary research facility located on the Tennessee State University Main Campus in the Division of Research and Sponsored Programs Building. At the Center, TSU graduate and undergraduate students are presented with opportunities to participate in a genuine research environment. Major areas of research include:

- Astrophysics
- Advanced Control Systems and System Identification
- Applied Mathematics

If you would like more information please call:
Dr. Michael R. Busby, Director
Center of Excellence in Information Systems
(615) 277-1601
<http://coe.tsuniv.edu>





RESEARCH:
CELEBRATING
EXCELLENCE

32ND ANNUAL
UNIVERSITY-WIDE
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TENNESSEE STATE UNIVERSITY
OFFICIAL 2010 SYMPOSIUM PROGRAM

Cover photograph by Vando Rogers, Nashville, Tennessee. Undergraduate student researchers featured: David Lynes, (left) senior student, physics major and Al Wilson (right), senior student, mathematics major.

Orville Bignall, Ph.D.
Associate Professor and Coordinator for Physics Program
Department of Physics and Mathematics

Editor, Nannette Carter Martin

RESEARCH: CELEBRATING EXCELLENCE

Celebrating Undergraduate Research at Tennessee State University

*"Research-based learning must become the standard for undergraduate education."
Boyer Commission on Educating Undergraduates National Report*



LaTasha Taylor and Marcell Pickens conducting undergraduate research aboard NASA's reduced gravity KC-135 plane. LaTasha is currently a Lockheed Martin engineer designing the astronaut crew compartment for the NASA Orion spacecraft and has applied to the NASA astronaut program.

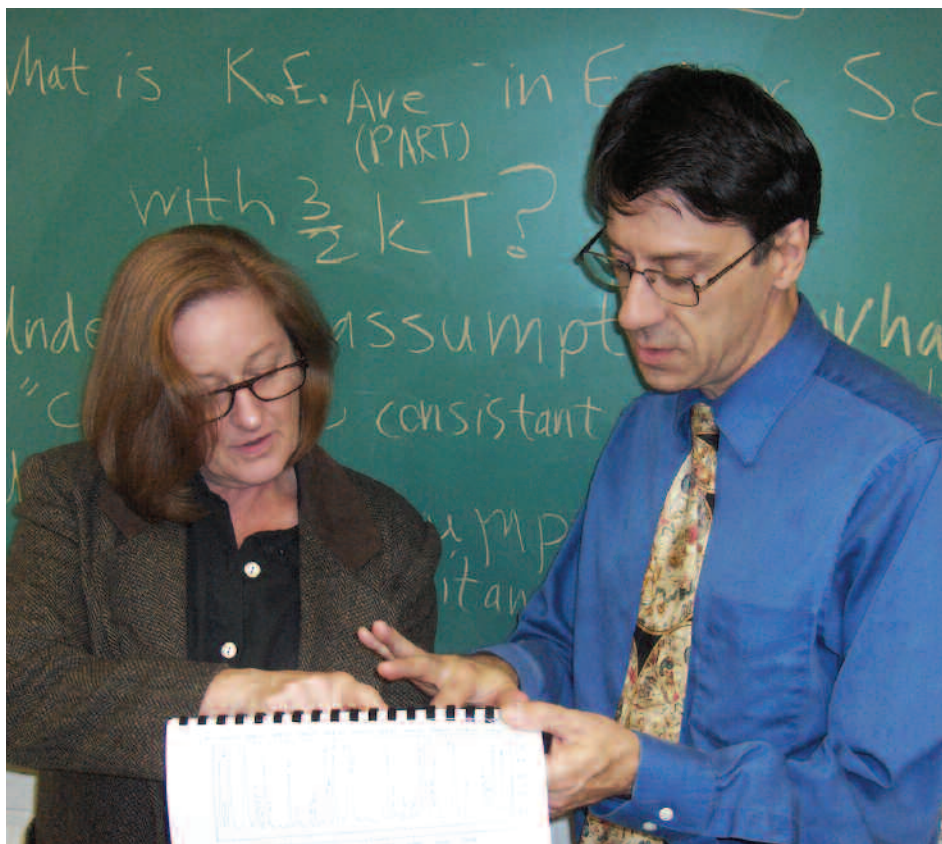
The 32nd Annual University-Wide Research Symposium celebrates our environment of research excellence here at Tennessee State University which has produced the synergistic coordination of multiple undergraduate-research initiatives.

The programs for undergraduate research at TSU include the Symposium, the Undergraduate Engineering Capstone Research Projects, the Minority Access to Research Careers (MARC) Program, the Undergraduate Research and Mentoring (URM) Program in Ecology and Environmental Science, and the Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP). Many successful TSU alumni conducted research as part of their undergraduate education such as Jesse Russell ('72), inventor of key cell-phone technology who served as the 2009 Symposium keynote speaker; Levi Watkins ('66), leading cardiologist at Johns Hopkins University Hospital; and Latasha Taylor ('04), candidate for the NASA astronaut program.

Engagement in research and other scholarly activities has a profound impact on undergraduate students. According

to S. Keith Hargrove, Dean of the TSU College of Engineering, Technology and Computer Science, all graduating engineering students complete the capstone research projects, and, over the past five years, a majority of these seniors have excelled in academics. This success is consistent with the findings of published studies that have concluded that undergraduate students engaged in scientific research tend to enjoy higher GPA's, effectuate greater retention in advanced courses, elevate their technical and communication skills, energize their self-confidence, and enter graduate education programs and the STEM (Science, Technology, Engineering and Mathematics) professions in higher numbers.





Ms. Julia O'Connell, 2009-2010 UReCA scholar, discusses her research with TSU astronomer Dr. Geoffrey Burks.

In its 2005 publication, *A Vision of Research and Graduate Education*, the Tennessee Board of Regents (TBR) recommended that each TBR campus establish a Center of Undergraduate Research. In this vein, Dr. Maria Thompson, Vice President for the Division of Research and Sponsored Programs, created the Undergraduate Research and Creative Activities (URCA) program at TSU

which has a mission to advance the student-centered research endeavors of the University. The UReCA program received initial TBR Access and Diversity Initiative Grant funding in 2009 to coordinate a STEM-focused research

journey for students through the six disciplines of biological science, chemical science, engineering, agricultural science, physics, and astronomy. In addition, the "Creative Activities" portion of the UReCA program is a TSU initiative that supports grant proposals for faculty from all disciplines including music and art. UReCA is a component of The Scholars Experience program at TSU which is also a unique network of university-wide student-development programs focused on creating the holistic scholar.

The acronym UReCA is pronounced identically to the exclamation "Eureka!" - which derives from a Greek word for discover - accordant with the future of research at the University. As stated by Dr. Thompson, "URCA supports the University's strategic integrative goal of becoming a premier public research land-grant university and a destination campus in the region."

2009-2010 UReCA Scholars

- Agriculture, Jenae Smith
- Astronomy, Julia O'Connell
- Biology, Hartman Madu
- Chemistry, Deanna Bowman
- Engineering, Carmen Hollingsworth
- Mathematics and Physics, Kimberly Eakins

URCA Director - Todd Gary, Ph.D.
 URCA Coordinator - Mrs. Robin Madison
www.tnstate.edu/research



Undergraduate students use CytoViva microscope system to perform hyperspectral imaging and fluorescent microscopy in Nanoscience and Biotechnology Core research laboratories; Director - Susan Verbene-Sutton. Left: Jeremy Young, junior, veterinary science. 2009-2010 exchange student from the University of Arizona. Right: Anthony Spann, senior, electrical engineering. Top right: Kimberly Eakins, senior, physics. UReCA Scholar.



TENNESSEE STATE UNIVERSITY
3500 JOHN A. MERRITT BOULEVARD
NASHVILLE, TENNESSEE 37209-1561



OFFICE OF
THE PRESIDENT

March 15, 2010

Dear Colleagues:

It brings me great pleasure to welcome each of you to Tennessee State University's 32nd annual University-wide Research Symposium. I commend the Division of Research and Sponsored Programs for bringing together many of the University's most brilliant minds to engage in spirited dialogue and discussion about the fruits gathered after months of laborious research in our STEM disciplines.

Each year, I look forward to chatting with our faculty and student researchers about the exciting projects they are producing right here at the University. This year's symposium, themed "Research: Celebrating Excellence," proves to be even more special, as the program highlights our greatest assets—our students.

In addition to the interaction our young research scholars will certainly glean from the research talent assembled at this event, the opportunity to be commended among peers and contemporaries in their fields for outstanding research is truly a hallmark of academia.

The dedication and persistence our student researchers will display throughout the week shows that they too have made a commitment to meeting my challenge of positioning Tennessee State University as one of the top-tier research institutions in the nation. Their creativity and technological insight demonstrated certifies that the future of scientific advancement is in capable, intuitive hands.

As you participate in discussions throughout this symposium, please remember that Tennessee State University has a commitment to excellence in research.

Sincerely,

A handwritten signature in blue ink that reads "Melvin N. Johnson".

Melvin N. Johnson
President

"A Commitment to Excellence"
AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER M/F



OFFICE OF
THE VICE PRESIDENT

TENNESSEE STATE UNIVERSITY
RESEARCH AND SPONSORED PROGRAMS
3500 JOHN A. MERRITT BOULEVARD
NASHVILLE, TENNESSEE 37209-1561



March 15, 2010

Dear Colleagues:

Welcome to the 32nd Annual University-Wide Research Symposium showcasing our endeavors to engage undergraduate students in scholarly and creative research.

The Symposium permits each participant to experience a week of interdisciplinary presentations wherein judges decide competitive awards that span multiple sections of research pursuits. These research presentations are delivered to the campus and community by our students under the collaborative mentoring of faculty which yields both seasoned scholarship and competitive creativity.

Our Symposium theme is “Research: Celebrating Excellence,” and the sub-title is, “Undergraduate Research— A Leading Perspective on Inventing the Future.” Undergraduate research is an essential tool of education because education is a process of mentoring. The word education is derived from its Latin root words of *educare* meaning “to rear” and *educere* meaning “to pull out.” As a process of mentoring in education, professors both impart established information to students and rear these students to investigate uncertain or untested matters, thereby equipping this next generation to create or to pull out more clarity of knowledge. The nerve center of this process at Tennessee State University is the Undergraduate and Creative Activities (UReCA) Program, which advances the continuing research mission of the University by coordinating the teamwork of more than eight university-wide programs. The UReCA Program engages undergraduate students in scholarly endeavors within all disciplines and supports faculty in working with these students to obtain external funding for their research endeavors.

On behalf of the Division of Research and Sponsored Programs, we celebrate our environment of research excellence which is produced by the synergistic coordination of multiple undergraduate-research initiatives.

Sincerely,

A blue ink handwritten signature, appearing to read "Maria Thompson", with a long, sweeping flourish extending to the right.

Maria Thompson, Ph.D.
Vice President
Research and Sponsored Programs

“A Commitment to Excellence”
AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER M/F

The Research Symposium

A B R I E F H I S T O R Y

The Annual University-Wide Research Symposium at Tennessee State University is celebrating 32 years of providing an opportunity for faculty, undergraduate, and graduate students to present their research. In 1979, the event started as Research Day and it was renamed University-Wide Research Day in 1981. During the early years, only oral presentations were given. Since 1995, both poster and oral presentations have been included. Also, in 1995, the number of presentations had increased so much that all activities could not be completed in one day. Consequently, the name was changed from Research Day to Research Symposium where there are now five days of activities, including presentations from several speakers from various disciplines. Dr. Rubye Torrey, Assistant Vice President for Research and Professor of Chemistry (*Emeritus*), was the first Research Day Chair (1979-1981). TSU honored Dr. Torrey at the 2008 Symposium.

In 1979, the winners of the student presentations and their advisors were: Tyrone McKinnie (Richard Hogg, Advisor), George Pruitt (Rudolph Woodberry, Advisor) and Karen Sharp (Sandra Sheick, Advisor). Faculty presenters included Baqar A. Husaini (Sociology); Robert Taylor (currently Dean of Agricultural and Environmental Sciences, Alabama A&M University); Asalean Springfield (English), and Sandra Scheick (Mathematics). Remarks were given by then-Governor Lamar Alexander, Congressman John Bray, Mayor Richard Fulton, Fisk University President Walter Leonard, Meharry Medical College President Richard Lester, and Vanderbilt University President Emmett Fields.

Over the ensuing 32 years of annual symposia, the following persons have served as Symposium Chairs: Rubye Torrey (1979-1981), Jacquelyn Martin (1982-1986), Joan Elliot (1987-1994), Carolyn Caudle (1995-1999), Elbert Lewis Myles (2000-2004), Elaine Martin (2005-2007), and Brenda McAdory and Valerie Williams (2008-2009).

The Dean of the College of Arts and Sciences (Wendolyn Bell, Bobby Lovett, William Lawson, and Interim Dean Gloria Johnson) has supported the research symposium from its inception. In 1995, Maurice Mills (Director, Office of Sponsored Research) embraced the vision of the research symposium being campus wide and being supported by, not only the College of Arts and Sciences, but also by the Office of Sponsored Research with increased financial and human resources. With Carolyn Caudle (Faculty Liaison, OSR) at the helm of the research symposium leadership, activities moved to a new level. She re-established the presentation times to 15 minutes and introduced concurrent sessions. The symposium reached a peak of 130 presentations during her chairmanship. Caudle instituted advertisements in the symposium booklet from schools, departments and institutes throughout the University. Caudle's co-chair, Nannette Martin, and later Jovita Wells, assisted in the design of the Research Symposium booklets and many of the advertisement pages. In 2004, Marcus W. Shute, first Vice President for the Division of Research and Sponsored Programs, significantly increased the level of financial support for the Symposium and began the tradition of inviting TSU alumni engaged in research careers to speak to students during the awards luncheon. The research symposium booklets were given to all attendees and were used as a recruitment tool for students and faculty by the University's president, School of Engineering and other departments and schools of the University. The research symposium booklet (or program) also became a means to showcase various research activities at Tennessee State University.

Vice President Maria Thompson of the Division of Research and Sponsored Programs and Interim Dean Gloria Johnson of the College of Arts and Sciences continue to support the chairs of the Research Symposium. Only the research titles and authors are now published in the program booklet, while the abstracts and presentations are published on Tennessee State University's research website (www.tnstate.edu/research).

OVERVIEW OF EVENTS

Monday, March 15, 2010

8:00 am - 9:00 am	Symposium Programs Available Research and Sponsored Programs Building, First Floor Lobby
	Spring Break Academy – High School Jr. and Sr. students visit campus for “The Life of a College Student.”
School of Nursing Day 8:00 am - 1:00 pm	
11:30 a.m. – 12:40 p.m.	Luncheon Dr. Pamela C. Hull, speaker – Associate Director, Center for Health Research, TSU James E. Farrell - Fred E. Westbrook Building, 118
Association of Pre-Professional Life Scientists- APLS Day 1:00 p.m. – 9:00 p.m. Research and Sponsored Programs Building	
1:00 p.m. – 4:00 p.m.	Conference Room 209 APLS Webinar Theater - Science Careers Away from the Bench; Effective Lab Skills: Managing People, Projects and Money; Open Innovation and Social Networking
1:00 p.m. – 2:00 p.m.	Nanoscience and Biotechnology Core Facility Genetics Workshop with High School Students: Crime Scene Investigation
2:00 p.m. – 3:30 p.m.	Conference Room 163 APLS Life Science Challenge and Competition
3:30 p.m. – 5:00 p.m.	Panel Discussion with Faculty/Administrators - Success in Science: Beyond the Classroom
5:00 p.m. – 6:00 p.m.	First Floor Lobby Reception and Professional Mixer
6:00 p.m. – 9:00 p.m.	Floyd-Payne Campus Center Forum Featured Film

Tuesday, March 16, 2010

8:00 am - 9:00 am	Symposium Programs Available Research and Sponsored Programs Building, First Floor Lobby
	Spring Break Academy – High School Jr. and Sr. students visit campus for “The Life of a College Student.”
GRADUATE ORAL PRESENTATIONS All Presentations will be in the Research and Sponsored Programs Building, Room 163	
8:30 a.m. - 11:30 a.m.	SCIENCES
2:00 p.m. - 4:15 p.m.	SCIENCES
10:00 am - 12:00 noon	Judging for Graduate and Undergraduate Posters Research and Sponsored Programs Building, Lower Level
Engineering Day – 11:30 a.m. – 4:00 p.m. Farrell-Westbrook Building, 118	
11:30 a.m. - 1:00 p.m.	Luncheon Presentation by Dr. S. Keith Hargrove, speaker – Dean, College of Engineering, Technology and Computer Science
3:00 p.m.	RSP Building, Robotics Laboratory Robotics demonstration for high school students

Agriculture and Consumer Sciences Day 1:00 p.m. – 2:45 p.m.

Agricultural Information and Technology Center	
1:00 p.m.	Presentation by Dr. Maria Browning, speaker – Extension Animal Scientist, Alabama A&M University
2:00 p.m. - 2:45 p.m.	Biotechnology and Food Safety demonstrations for high school students

Wednesday, March 17th, 2010

8:00 am - 9:00 am	Symposium Programs Available Research and Sponsored Programs Building, First Floor Lobby
	Spring Break Academy – High School Jr. and Sr. students visit campus for “The Life of a College Student.”
GRADUATE ORAL PRESENTATIONS All Presentations will be in the Research and Sponsored Programs Building, Room 163	
9:00 a.m. – 9:45 a.m.	HEALTH, EDUCATION, AND SOCIAL SCIENCES
3:15 p.m. – 4:30 p.m.	ENGINEERING
10:00 am - 12:00 noon	Judging for Graduate and Undergraduate Posters Research and Sponsored Programs Building, Lower Level

Posters will be displayed from March 15 - 19, 2010, Research and Sponsored Programs Building, Lower Level.

OVERVIEW OF EVENTS

Wednesday, March 17, 2010 continued

8:00 am - 9:00 am	Symposium Programs Available Research and Sponsored Programs Building, First Floor Lobby
Intelligence Studies Day 9:10 a.m. – 5:30 p.m. Agricultural Information and Technology Center	
9:10 a.m. - 10:10 a.m.	Globalization and Terrorism Workshop
10:20 a.m. – 11:20 a.m.	Intelligence Community Career Fair Farrell-Westbrook Building, 118
11:30 a.m. – 1:00 p.m.	Luncheon Presentation by Maura Burns, Issue Manager, Central Intelligence Agency
1:00 p.m. – 1:20 p.m.	Intelligence Community Career Fair
1:30 p.m. – 2:15 p.m.	790th AFROTC Detachment Tour Floyd-Payne Center
2:30 p.m. – 3:20 p.m.	Introduction to Biological Sciences , Biological Sciences Laboratory Demonstrations - McCord Hall
3:30 p.m. – 4:30 p.m.	Globalization and Terrorism Workshop Research and Sponsored Programs, Room 209
4:30 p.m. - 5:30 p.m.	Scholars Reception Research and Sponsored Programs Lobby

Thursday, March 18th, 2010

8:00 am - 9:00 am	Symposium Programs Available Research and Sponsored Programs Building, First Floor Lobby
UNDERGRADUATE ORAL PRESENTATIONS All Presentations will be in the Research and Sponsored Programs Building, Room 163	
8:30 a.m. – 11:15 p.m.	SCIENCES
3:00 p.m. – 3:30 p.m.	ENGINEERING
3:30 p.m. – 3:45 p.m.	HUMANITIES
2:00 p.m. – 4:00 p.m.	Judging for Graduate and Undergraduate Posters Research and Sponsored Programs Building, Lower Level

Chemistry Day 9:00 a.m. – 7:00 p.m.

Alger V. Boswell Building

9:00 a.m. - 12:00 p.m.	Career Fair
10:00 a.m. - 11:00 a.m.	Chemistry Demonstrations
11:00 a.m. - 12:00 p.m.	Chemistry Challenge
12:00 p.m. - 2:30 p.m.	Student Poster Presentations
2:40 p.m. - 4:00 p.m.	Presentation by Ruth Woodall, Director of Tennessee Scholars Program, speaker
5:00 p.m.	Dinner and Awards - James E. Farrell-Fred E. Westbrook Building, 118

Psychology Day 11:30 a.m. – 7:00 p.m.

James E. Farrell-Fred E. Westbrook Building, 118

11:30 a.m.	Luncheon Presentation - Dr. Jim O'Neil, speaker, Professor of Educational Psychology and Family Studies, Univ. of Connecticut
RSP 209	
1:00 p.m. - 2:30 p.m.	Poster Session (student research)
2:30 p.m. - 4:00 p.m.	Presentation Dr. Jim O'Neil, speaker-- Professor of Educational Psychology and Family Studies, University of Connecticut
4:15 p.m. - 5:30 p.m.	Panel Discussion: Completing your senior project, thesis, and dissertation
5:45 p.m. - 7:00 p.m.	Awards Ceremony

Friday, March 19, 2010

8:00 am - 9:00 am	Symposium Programs Available Research and Sponsored Programs Building, First Floor Lobby
9:00 a.m. – 9:45 a.m.	Faculty Oral Presentations All Presentations will be in the Research and Sponsored Programs Building, Room 163
Student Awards Ceremony James E. Farrell-Fred E. Westbrook Building, 118	
11:30 a.m. – 1:00 p.m.	Welcome Dr. Brenda McAdory, Symposium Co-Chair Luncheon Presentation of Awards Dr. Maria Thompson, Vice President for Research and Sponsored Programs Acknowledgements Ms. Valerie Williams, Symposium Co-Chair and Closing Remarks
1:00 pm	Adjournment

Posters will be displayed from March 15 - 19, 2010, Research and Sponsored Programs Building, Lower Level.

A Spring Break Academy

The Life of a College Student

March 15-17, 2010

Agenda for Local Junior and Senior High School Students

TIME	Monday March 15, 2010	Tuesday March 16, 2010	Wednesday March 17, 2010
8:30 - 9:00 RSP Room 209	Welcome Check-in Group Assignment	Welcome Check-in Application Check	Welcome Check-in Application Check
9:10 - 10:10	TSU History The University I Selected <i>TSU Student Panel</i> RSP Room 209	What America Do We Have? <i>Career Development Center</i> RSP Room 209	HBCU-UP Program <i>HS Students</i> Globalization and Terrorism Workshop <i>TSU Students, Faculty, Staff, and Guests</i> AITC Center
10:20 - 11:20	Admission Requirements and Financial Aid Discussion RSP Room 209	College Life "Academics... My major... My schedule... My study habits" <i>TSU Student & Faculty Panel</i> RSP Room 209	Intelligence Community Career Fair Farrell-Westbrook Building, 118
11:30 - 1:00	Lunch in Student Center and Accountability Check	Lunch in Student Center and Accountability Check	Research Symposium Lunch and Accountability Check Farrell-Westbrook Building, 118
1:00 - 2:00	CSI-Crime Scene Investigation "Hands-On" Science Experiments with Nano Lab Tour RSP Room 209	College of AG & Consumer Sciences AITC Center Veterinary Science <i>Majors and Careers</i> <i>Virtual Learner Experience</i>	1:00-1:20 Intelligence Community Career Fair in Hallway of Farrell-Westbrook Bldg, 118
			1:30 - 2:15 790th AFROTC Detachment Tour
2:00 - 3:00	APLS Life Science Challenge/Game RSP Room 209	2:00-2:45 College of AG & Consumer Sciences <i>Biotechnology and Food Safety</i> <i>demonstrations</i>	790th AFROTC Detachment Tour
			2:30-3:20 pm - McCord Hall <i>Biology Lab Tour</i>
3:00 - 4:00	APLS Workshop: How to be a Scientist-What you will not learn in a classroom RSP Room 209	College of Engineering <i>Robotics Lab Tour</i> Holland Hall Room 323	3:30 - 4:40 Globalization and Terrorism Workshop <i>HS Students</i> RSP Room 163
4:00 - 4:30	<ul style="list-style-type: none"> • Connections • Look to Tomorrow • Accountability • Business Attire Discussion • Dress Business on March 16, 2010 RSP Room 209	<ul style="list-style-type: none"> • Connections • Look to Tomorrow • Accountability • Wear "I Love TSU" T-shirt for March 17, 2010 RSP Room 209	<ul style="list-style-type: none"> - HS Student Survey - Reception 4:30 to 5:30 PM RSP Lobby and Room 163 - Awards presentation for "A Spring Break Academy" to follow Reception

P R E S E N T A T I O N S C H E D U L E S

SCIENCES

Graduate Oral Presentations

Tuesday, March 16, 2010 MORNING SESSION

All Presentations will be in the Research and Sponsored Programs Building Room 163

8:30	TA1	FACTORS AFFECT BIOMASS ALLOCATION OF FORESTS IN CHINA Le, Xuan L.* and Hui, Dafeng; Advisor, Dr. Dafeng Hui. School of Agriculture and Consumer Sciences
8:45	TA2	AFRICAN SCIENTISTS IN DIASPORA: RELEVANCE AND IMPACTS ON THEIR CONTINENT Otukpe, F.*; Advisor, Dr. Surrendra Singh. School of Agriculture and Consumer Sciences
9:00	TA3	INFLUENCE OF DIET INDUCED OBESITY ON AVIAN CARDIOMYOPATHY Boatswain, Thea; Advisor, Dr. Samuel Nahashon. School of Agriculture and Consumer Sciences
9:15	TA4	A GENOMIC AND PROTEOMICS APPROACH FOR IDENTIFYING GENES ASSOCIATED WITH FAT ACCRETION IN POULTRY Kelley, Gary*; Advisors, Drs. Samuel Nahashon and Fur Chi Chen. School of Agriculture and Consumer Sciences
9:30	TA5	ORGANIC FARMING AND THE CONVERSION FACTORS FROM CONVENTIONAL FARMING IN TENNESSEE Da Silva, Sherese*; Advisors, Drs. Dharma S. Pitchay and Surrendra Singh. School of Agriculture and Consumer Sciences
9:45	TA6	EVALUATION OF OPTIMUM CALCIUM AND PHOSPHORUS REQUIREMENT OF THE PEARL GREY GUINEA FOWL Glover, Lakesha*; Advisor, Dr. Samuel Nahashon. School of Agriculture and Consumer Sciences
10:00	TA7	EVALUATION OF PROGRESSION AND AMELIORATION OF FURAZOLIDONE INDUCED CARDIOMYOPATHY IN CHICKENS Branham, Ketedrea*; Advisor, Dr. Samuel Nahashon. School of Agriculture and Consumer Sciences
10:15	TA8	CHARACTERIZATION OF A TN5 MUTANT OF THE SOFT ROT BACTERIUM PECTOBACTERIUM CAROTOVORUM Kersey, Caleb*; Advisor, Dr. Korsi Dumenyo. School of Agriculture and Consumer Sciences
10:30	TA9	ALTERED CARDIAC FUNCTION IN FURAZOLIDONE-INDUCED CARDIOMYOPATHY IN CHICKENS Brown, Ashley*; Advisor, Dr. Samuel Nahashon. School of Agriculture and Consumer Sciences
10:45	TA10	RHIZODEGRADATION OF THE INSECTICIDE BIFENTHRIN IN DIFFERENT SOILS Le, Xuan *, Liu, Zong, and Dzantor, E. Kudjo; Advisor, Dr. Kudjo Dzantor. School of Agriculture and Consumer Sciences
11:00	TA11	OPPORTUNITIES AND CHALLENGES IN THE GOAT MEAT INDUSTRY IN THE UNITED STATES Favors, Delicia*; Advisor, Dr. Surrendra P. Singh. School of Agriculture and Consumer Sciences
11:15	TA12	EXAMINING THE PROFILE OF SMALL BUSINESSES IN THE BLACK BELT REGION Allen, Derek*; Advisor, Dr. James Bukenya. Agribusiness

Tuesday, March 16, 2010 AFTERNOON SESSION

2:00	TP13	TETRABROMOBISPHENOL A CAUSES ACTIVATION OF MITOGEN ACTIVATED PROTEIN KINASES IN HUMAN NATURAL KILLER CELLS Cato, A.*, Kibakaya, E., and Whalen, M.; Advisor, Dr. Margaret Whalen. Department of Biological Sciences
2:15	TP14	INITIAL CHARACTERIZATION OF PLANT METABOLITES INDUCING VIRULENCE IN SOFT ROT PATHOGEN, PECTOBACTERIUM SPP. Agyemang, Paul* and Kersey, Caleb; Advisor, Dr. Charles. K. Dumenyo. Department of Biological Sciences
2:30	TP15	ACTIVATION OF PROTEIN KINASE D IS PART OF THE NK CELL SIGNALING PATHWAY ACTIVATED IN THE TUMOR-CELL DESTROYING PROCESS Rana, K.* and Whalen, M.; Advisor, Dr. Margaret Whalen. Department of Chemistry
2:45	TP16	DESIGN AND SYNTHESIS OF FLUORINATED CHROMEN-5(6H)-ONE AS POTENTIAL ANTICANCER AGENTS Ogunwale, M. A.* and Okoro, C. O.; Advisor, Dr. Cosmas Okoro. Department of Chemistry

PRESENTATION SCHEDULES

3:00	TP17	MOBILITY AND REACTIVITY OF NANOPARTICULATE ZERO VALENT IRON IN GROUNDWATER Janumpalli, Harini* and Harris, Justin; Advisor, Dr. Roger Painter. Department of Chemistry
3:15	TP18	ROBUST STABILITY AND STABILIZATION OF NON-LINEAR STOCHASTIC DISCRETE- TIME SYSTEMS Sathanathan, S., Keel, L. H., and Strong, A.*; Advisor, Dr. Sivapragasm Sathanathan. Dept. of Mathematics and Physics
3:30	TP19	SIMPLE STATISTICAL RESULTS OF FOUR NETWORK TOPOLOGIES IN THE DISCOVERY PROBLEM Knap, Michael*; Advisor, Dr. Stefan Forcey. Department of Mathematics and Physics
3:45	TP20	AN ALGORITHMIC APPROACH TO PARAMETRIC STABILITY IN SYSTEMS CONTROL DESIGN Keel, L. H., Battacharyya, S. P, and Knap, M.*; Advisor, Dr. Lee H. Keel. Department of Mathematics and Physics
4:00	TP21	ROBUST H-INFINITY CONTROL OF LINEAR STOCHASTIC SYSTEMS UNDER MARKOVIAN SWITCHING Sathanathan, S, Ladde, G. S., Keel, L. H, and Knap, M.*; Advisor, Dr. Lee H. Keel. Department of Mathematics and Physics

HEALTH, EDUCATION, AND SOCIAL SCIENCES

Graduate Oral Presentations

Wednesday, March 17, 2010 MORNING SESSION

All Presentations will be in the Research and Sponsored Programs Building Room 163

9:00	WA1	PREVENTATIVE MEASURES FOR SHOULDER OVERUSE INJURIES IN BASEBALL PITCHERS: STRENGTH TRAINING VS. KINESIOTAPE Ballard, J.*, Studer, J., and Young, A.; Advisor, Dr. Thomas Bukoskey. Department of Physical Therapy
9:15	WA2	EFFECTS OF ECCENTRIC TRAINING ON ACHILLES TENDINOPATHY Izadi, E.*; McFarlane, K., Scollard, J. and Sherlock, C.; Advisor, Dr. Thomas Bukoskey. Department of Physical Therapy
9:30	WA3	FACTORS INFLUENCING MEN'S MEDICAL VISITS Davidson, M.*, Hull, P., Reece, M., Emerson, J., Cain, V., Schlundt, D., and Levine, R.; Advisor, Dr. Pamela Hull. Center for Health Research

ENGINEERING

Wednesday, March 17, 2010 AFTERNOON SESSION

3:15	WP4	DESIGN OF A MONITORING SYSTEM FOR STRENGTH DEVELOPMENT IN QUADRICEP MUSCLES TO REDUCE ACL INJURIES Perkins, Anita.*; Advisor, Dr. Mohammad, Bodruzzaman. Department of Electrical Engineering
3:30	WP5	SECURITY SYSTEM FOR HETEROGENEOUS WIRELESS SENSOR NETWORKS McNeal, McKenzie*; Advisor, Dr. Chen Wei. Department of Electrical Engineering
3:45	WP6	STATIC COMFORT ASSESSMENTS FOR EJECTION SEAT CUSHIONS IN THREE DIFFERENT RAIL ANGLES Ojetola, Akindeji*; Advisor, Dr. Landon Onyebueke. Department of Mechanical and Manufacturing Engineering
4:00	WP7	DEVELOPMENT OF A COMPUTER AIDED DESIGN TECHNIQUE FOR SEAT COMFORT ANALYSIS Amer, Saed*; Advisor, Dr. Landon Onyebueke. Department of Mechanical and Manufacturing Engineering
4:15	WP8	DISTRIBUTED CONTROL METHODOLOGY FOR COORDINATION OF SYSTEMS McCurry, Charles D.*; Advisor, Dr. M. S. Zein-Sabatto. Department of Computer and Information Systems Engineering

SCIENCES

Undergraduate Oral Presentations

Thursday, March 18, 2010 MORNING SESSION

All Presentations will be in the Research and Sponsored Programs Building Room 163

8:30	RA1	REPRODUCTIVE OUTPUT OF MEAT GOAT DOES IN RELATION TO THEIR WEANING WEIGHT RATIOS Dixon-Lewis, Dawnn*; Advisor, Dr. Richard Browning. School of Agriculture and Consumer Sciences
8:45	RA2	DEVELOPING A RAPID TECHNIQUE FOR SEX DIFFERENTIATION OF THE GUINEA FOWL AT EARLY AGE Young, Jeremy*; Advisor, Dr. Samuel N. Nahashon. School of Agriculture and Consumer Sciences
9:00	RA3	THE DESIRABLE AND UNDESIRABLE TRAITS IN MEAT GOATS Smith, Jenae*; Advisor, Dr. Surrendra Singh. School of Agriculture and Consumer Sciences

PRESENTATION SCHEDULES

9:15	RA4	GENERATING GENOMIC RESOURCE INFORMATION OF THE GUINEA FOWL THROUGH cDNA LIBRARY CONSTRUCTS OF THE HYPOTHALAMUS Bonner, Niesha*; Advisor, Dr. Samuel N. Nahashon. School of Agriculture and Consumer Sciences
9:30	RA5	ANALYSIS OF EFFECTS OF DICHLORO-DIPHENYL-TRICHLOROETHANE (DDT) ON NATURAL KILLER CELLS Udoji, Felicia* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Biological Sciences
9:45	RA6	EXPLORING THE MODULATION OF L-AROMATIC AMINO ACID DECARBOXYLASE EXPRESSION IN THE STRIATUM OF THE MPTP-PD MOUSE MODEL Dean V, Warren and Charlton, Clivel; Advisor, Dr. Clivel Charlton. Department of Biological Sciences
10:00	RA7	DETERMINATION OF THE LEVEL OF GROWTH INHIBITION IN THE CANCER CELL LINE SW620 USING EXTRACTS FROM BLACK TEA, GREEN TEA, AND WHITE TEA Madu, Hartman*; Advisor, Dr. E. Lewis Myles. Department of Biological Sciences
10:15	RA8	PD-CATALYZED MICROWAVE IRRADIATED CROSS-COUPPLING REACTIONS FOR CHALCONE SYNTHESIS Ng, Eunice*; Advisor, Dr. Mohammad Al-Masum. Department of Chemistry
10:30	RA9	SYNTHESIS AND CHARACTERIZATION OF ACRIDONE DERIVATIVES AS POTENTIAL BIOLOGICALLY ACTIVE COMPOUNDS Bogan, Deanna*, Okoromoba, Otome, and Okoro, Cosmas; Advisor, Dr. Cosmas Okoro. Department of Chemistry
10:45	RA10	CHARACTERIZATION OF POLY-LACTIC-GLYCOLIC ACID NANOPARTICLE AND SELF ASSEMBLE MONOLAYERS (SAMS) USING SCANNING PROBE MICROSCOPE Eakins, Kimberly*; Advisors, Drs. Lizhi Ouyang and Susan Verberne-Sutton. Department of Mathematics and Physics
11:00	RA11	IMPROVING TSU'S AUTOMATED SPECTROSCOPIC TELESCOPE O'Connell, Julia; Advisor, Dr. Matthew Muterspaugh. Department of Mathematics and Physics

ENGINEERING

Undergraduate Oral Presentations

Thursday, March 18, 2010 AFTERNOON SESSION

All Presentations will be in the Research and Sponsored Programs Building Room 163

3:00	RP12	SENSOR-BASED ROBOTICS NAVIGATION Hollingsworth, Carmen*; Advisor, Dr. Tamara Rogers. Department of Mechanical and Manufacturing Engineering
3:15	RP13	WATER QUALITY OF AN URBAN SPRING FEEDING A WETLAND SYSTEM IN NASHVILLE, TN Carlton Cobb*; Advisor, Dr. Tom Byl. Department of Civil and Environmental Engineering

HUMANITIES Group Presentation

3:30	RP14	STUDENTS AND CREDIT CARD DEBT Rogers, Brandy*, Sparkman, Charles, Watts, Amelia, and Sledge, Champagne; Advisor, Dr. Sandra Holt
3:30	RP15	SEX AND VIDEO GAME VIOLENCE Moore, Darrin*, Drake, Delores, Freeman, Derravia, Johnson, Derrick, and Freeman, Cordarius; Advisor, Dr. Sandra Holt
3:30	RP16	YOUTH VIOLENCE Knight, Lezlie*, Tep, Linna, and Triplett, Meghan; Advisor, Dr. Sandra Holt

Faculty Oral Presentations

Friday, March 19, 2010

All Presentations will be in the Research and Sponsored Programs Building Room 163

9:00	FA1	PERCEPTIONS AND KNOWLEDGE ABOUT BIOTECHNOLOGY BY FARMERS, CONSUMERS, AND EXTENSION AGENTS IN GHANA Tegegne, F.*, Nahashon, S., Aziz, A., and Dumenyo, K. School of Agriculture and Consumer Sciences
9:30	FA2	TENNESSEE'S MINORITY AND UNDERSERVED LANDOWNERS: DETERMINANTS OF INTERESTS IN DIVERSIFIED FARM/FORREST LAND STEWARDSHIP Appleton, Nathaniel S.*, Catlin, Carter, and Mrema, Frank. School of Agriculture and Consumer Sciences

Poster Presentations Undergraduate Students

Poster Presentations will be in the Research and Sponsored Programs Building, Lower Level

BIOLOGICAL SCIENCES

- P1 EFFECTS OF NONYLPHENOL EXPOSURES ON ATP LEVELS IN HUMAN NATURAL KILLER CELLS**
Reid, Jacqueline* and Martin, Tamara; Advisor, Dr. Margaret Whalen. Department of Biological Sciences
- P2 TRICLOSAN CAUSES PERSISTENT SUPPRESSION OF THE IMMUNE FUNCTION OF HUMAN NATURAL KILLER CELLS**
Martin, Tamara* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Biological Sciences
- P3 NONYLPHENOL INTERFERES WITH THE IMMUNE FUNCTION OF HUMAN NATURAL KILLER CELLS**
Etherton, Rachel* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Biological Sciences
- P4 CHRONIC ETHANOL PROMOTES CELL DEATH**
Jackson, Catherine*, Dugger, Taylor, Washington, Brittany M., and Mtshali, Charlie; Advisor, Dr. Benny Washington. Department of Biological Sciences
- P5 CONSTRUCTING METALLO-ORGANIC FRAMEWORK UTILIZING SUPRAMOLECULARS**
Byrd, Crystal* and Siddiquee, Tasneem; Advisor, Dr. Tasneem Siddiquee. Department of Biological Sciences

CHEMISTRY

- P6 SPECTROSCOPIC STUDIES OF THE INTERACTION OF AMYLOID-BETA WITH METAL IONS**
Arnett, Shirelle* and Phambu, Nsoki; Advisor, Dr. Nsoki Phambu. Department of Chemistry
- P7 OXIDATION PREVENTION OF METALLIC NANOPARTICLES USING EXOPOLYSACCHARIDES**
Ryan, Lindsey*; Advisor, Dr. Koen Vercruysse. Department of Chemistry
- P8 INTERACTION BETWEEN A SYNTHETIC PEPTIDE AND METAL IONS**
Mason, Zanetta* and Phambu, Nsoki; Advisor, Dr. Nsoki Phambu. Department of Chemistry
- P9 SYNTHESIS AND CHARACTERIZATION OF BI₂TE₃/SiO₂ NANOCOMPOSITES**
Zhou, Jing* and Moore, Joshua, T.; Advisor, Dr. Joshua T. Moore. Department of Chemistry
- P10 INFRARED STUDY OF POLYSACCHARIDE STABILIZED NANOPARTICLES**
Johnson, Damitea* and Vercruysse, Koen; Advisor, Dr. Koen Vercruysse. Department of Chemistry
- P11 STUDIES ON THE EFFECT OF XANTHOPHYLL (LUTEIN) ON IRON-INDUCED LIPID PEROXIDATION IN METHYL LINOLENATE**
St.Louis, Murcellus*; Advisor, Dr. William Boadi. Department of Chemistry
- P12 NONYLPHENOL DECREASES THE TUMOR-CELL BINDING FUNCTION OF HUMAN NATURAL KILLER LYMPHOCYTES**
Walker, Jasmine* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Chemistry

ENGINEERING

- P13 EMPOWERING STUDENTS WITH ENGINEERING LITERACY AND SYSTEMATIC PROBLEM SOLVING THROUGH INTERACTIVE AND COST-EFFECTIVE GAMES**
Keobounhom Chanthavone* and Shetty, Sachin; Advisor, Dr. Sachin Shetty. Department of Electrical and Computer Engineering
- P14 COMMUNICATION WITHIN A MULTI- AGENT SYSTEM**
Moore Jr., Gary* and Anderson, Monica; Advisor, Dr. Monica Anderson. Department of Electrical and Computer Engineering
- P15 SECURE PHYSICAL LAYER KEY GENERATION IN MIMO NETWORKS**
Peter Riad*, Meena Thanu, and Sachin Shetty; Advisor, Dr. Sachin Shetty. Department of Electrical and Computer Engineering

HEALTH, EDUCATION, AND SOCIAL SCIENCES

- P16 STUDENT CONSIDERATIONS IN SELECTING AND APPLYING TO GRADUATE SCHOOL**
Barden, G.*, Hudson, M., Ranson, S., Sipes, H., and Taylor, K.; Advisor, Dr. Iris Johnson-Arnold. Department of Speech Pathology

PRESENTATION SCHEDULES

- P17 EXAMINATION INTO THE MICROBIOLOGICAL SAFETY OF IRRIGATION WATER USED BY A LOCAL SMALL FARMER**
Frederick, Alex, Stone, Richard, Chen, Fur-Chi, and Godwin, Sandria; Advisor, Dr. Sandria Godwin. School of Family and Consumer Sciences
- P18 FOOD SAFETY KNOWLEDGE AND PRACTICES AMONG PREGNANT WOMEN**
Clayborne, Amber*, Machara, Margaret, and Godwin, Sandria; Advisor, Dr. Sandria Godwin. School of Family and Consumer Sciences
- P19 PRADER-WILLI SYNDROME AND PHYSICAL THERAPY: A PROPOSED TREATMENT PROTOCOL**
Christiansen, Shannon*; Cunningham, Jim, Jeffers, Felicia, and Shelide, April; Advisor, Dr. David Lehman. Department of Physical Therapy
- P20 OBSERVING THE CONDITIONS AND OCCUPANTS OF NASHVILLE AREA PARKS**
Miller, Traci*; Advisors, Drs. M. Machara and S. Godwin. Department of Family and Consumer Sciences

Poster Presentations Graduate Students

Poster Presentations will be in the Research and Sponsored Programs Building, Lower Level

AGRICULTURAL AND CONSUMER SCIENCES

- P21 INTERACTIVE GIS OF STATE OWNED BUILDINGS IN TENNESSEE**
White, S.*; Skelton, T, and Kilbourne, K.; Advisor, Dr. Robert Harrison. School of Agriculture and Consumer Sciences
- P22 HYDROPONIC PRODUCTION OF HOPS (HUMULUS LUPULUS 'CASCADE')**
Chad R.*; Advisor: Dr. Roger Sauve. School of Agriculture and Consumer Sciences
- P23 A SUBSECTOR ANALYSIS OF TENNESSEE AGRICULTURAL PRODUCT EXPORT: GROWTH, PROBLEMS, AND COUNTERMEASURES**
Pasirayi, S.*; Advisor, Dr. Surendra Singh. School of Agriculture and Consumer Sciences
- P24 SPATIAL ANALYSIS OF SWITCH GRASS YIELD PRODUCTIVITY IN UNITED STATES**
Niharika, O.*; Advisor, Dr. Surendra Singh. School of Agriculture and Consumer Sciences
- P25 ARE CONCENTRATED ANIMAL FEEDLOT OPERATIONS THE MAIN SOURCE OF POLLUTION IN TENNESSEE RIVERS?**
McDermott, E.*; Advisor, Dr. Robert Harrison. School of Agriculture and Consumer Sciences
- P26 IDENTIFYING SOCIAL FORMS OF THE INVASIVE FIRE ANT: A MOLECULAR APPROACH**
Tyus, J.* and Ochieng, S.; Advisor, Dr. Sam Ochieng. School of Agriculture and Consumer Sciences
- P27 COULD POTASSIUM ION PROVIDE THE NEEDED ABIOTIC RESISTANCE IN PLANT PRODUCTION?**
Lewis, S.*; Advisor, Dr. Dharma Pitchay. School of Agriculture and Consumer Sciences
- P28 IMPACT OF NITROGEN FORMS AND RATIOS, AND SUBSTRATE PH ON BLUEBERRY ROOT AND SHOOT DEVELOPMENT**
Kennedy, S.* and Lewis, S.; Advisor, Dr. Dharma Pitchay. School of Agriculture and Consumer Sciences
- P29 IMPACT OF NITROGEN AND PHOSPHORUS CONCENTRATIONS ON CONTAINER GROWN CRAPE MYRTLE**
Lewis, S.* and Garcia, S.; Advisor, Dr. Dharma Pitchay. School of Agriculture and Consumer Sciences
- P30 A MOLECULAR MODEL FOR TOLERANCE TO TOXIC METAL IONS IN TOMATO**
Sangireddy, S. R.* and Zhou, S.; Advisor, Dr. Suping Zhou. School of Agriculture and Consumer Sciences
- P31 SURVIVAL OF ENTEROBACTER SAKAZAKI ON FRESH PRODUCE DURING STORAGE AT REFRIGERATOR TEMPERATURE**
Rotich, E.*; Kilonzo-Nthenge, A., and Thompson, C.; Advisor, Dr. Agnes Kilonzo-Nthenge. School of Family and Consumer Sciences
- P32 MARKETING CHANNELS OF GOAT MEAT**
Thompson, K.*; Advisor, Dr. Fisseha Tegegne. School of Agriculture and Consumer Sciences

Poster Presentations Graduate Students

Poster Presentations will be in the Research and Sponsored Programs Building, Lower Level

BIOLOGICAL SCIENCES

- P33 EFFECT OF P44/42 ACTIVATION ON TBT-INDUCED LOSSES OF GRANZYME B AND PERFORIN PROTEIN LEVELS IN HUMAN NK CELLS**
Abraha, Abraham* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Biological Sciences
- P34 EFFECTS OF ZIRAM ON HUMAN NATURAL KILLER CELLS MAP KINASES AND CYTOLYTIC PROTEINS**
Taylor, Thyneice R.* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Departments of Biological Sciences and Chemistry
- P35 RESPONSES OF SOIL RESPIRATION TO ELEVATED CARBON DIOXIDE AND NITROGEN ADDITION IN YOUNG SUBTROPICAL FOREST ECOSYSTEMS IN CHINA**
Deng Q.*, Hui, D., Zhou, G., Zhang, D., and Liu, J.; Advisor, Dr. Dafeng Hui. Department of Biological Sciences
- P36 CHRONIC ETHANOL ALTERS MITOGEN ACTIVATED PROTEIN KINASES IN VASCULAR SMOOTH MUSCLE CELLS**
Williams, S.*, Mtshali, C., and Gardner-Jones, C.; Advisor, Dr. Benny Washington. Department of Biological Sciences
- P37 TIME COURSE ANALYSIS OF NEUROFILIN IN THE MAMMALIAN BRAIN**
Coleman, Antoinette Y.*, Howard, Christianna A., and McAdory, Brenda S.; Advisor, Dr. Brenda S. McAdory. Department of Biological Sciences
- P38 FACTORS CONTRIBUTING TO THE DEVIATION OF RT-QPCR EFFICIENCIES**
Bohannon-Stewart, A.*; Advisor, Dr. Xiaofei Wang. Department of Biological Sciences
- P39 STRUCTURAL VARIATION OF ZINC FINGER RNA BINDING PROTEIN GENES IN THE GENOME OF CHICKENS**
Feaster, T.* and Wang, X.; Advisor, Dr. Xiaofei Wang. Department of Biological Sciences
- P40 AN EXPERIMENTAL ANALYSIS OF MAJOR FACTORS CONTRIBUTING TO UNEXPECTED REAL TIME RT-PCR EFFICIENCY**
Bohannon-Stewart, A.*, and Wang, X.; Advisor, Dr. Xiaofei Wang. Department of Biological Sciences
- P41 DEVELOPMENT OF A REPRODUCIBLE METHOD TO GROW AND STUDY DIFFERENTIATION OF MOUSE EMBRYONIC STEM CELLS**
Norwood, C. W., Asfour, James, A., and Asson-Batres, M. A.; Advisor, Dr. Mary Ann Asson-Batres. Department of Biological Sciences
- P42 DEVELOPMENT OF A MOUSE EMBRYONIC STEM CELL M MODEL FOR NEUROGENESIS AND LOCALIZATION OF RARA AND RARG IN THESE CELLS**
Buchanan, F.* and Asson-Batres, M. A.; Advisor, Dr. Mary Ann Asson-Batres. Department of Biological Sciences
- P43 UTILIZING RECOMBINANT IGY IN THE DEVELOPMENT OF A SURFACE PLASMON RESONANCE BIOSENSOR FOR SALMONELLA TYPHIMURIUM**
Darris, C.*; Advisors, Drs. Samuel Nahashon and Fur-chi Chen. Department of Biological Sciences
- P44 PPEF2 AND ITS RELATIONSHIP WITH MELATONIN SYNTHESIS IN CHICKEN'S PINEAL GLAND IN REGULATING THEIR CIRCADIAN RHYTHM**
Okafor, E.* and Wang, X.; Advisor, Dr. Xiaofei Wang. Department of Biological Sciences
- P45 CYTOTOXIC EXTRACTS OF ETHNOMEDICINAL PLANTS PODOPHYLLUM PELTATUM (MAYAPPLE) AND ECHINACEA ANGUSTIFOLIA**
McDowell, O.*; Advisor, Dr. E. Lewis Myles. Department of Biological Sciences

BUSINESS ADMINISTRATION

- P46 POSSIBLE COST AND LABOR SAVINGS OF AN INFORMATION SYSTEMS DEPLOYMENT FOR PROCUREMENT: A TSU USE CASE EXAMPLE.**
Adeusi, Debo, A.*; Advisor, Dr. Sharon Thach. Business Administration

CHEMISTRY

- P47 TRIBUTYLITIN CAUSES ACTIVATION OF THE MAP3K, C-RAF, BUT NOT RAS IN HUMAN NATURAL KILLER CELLS**
Celada, Lindsay* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Chemistry
- P48 TETRABROMOBISPHENOL A DECREASES CELL SURFACE MARKER EXPRESSION IN HUMAN NATURAL KILLER CELLS**
Hurd, Tasia* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Biological Sciences

P R E S E N T A T I O N S C H E D U L E S

- P49 MICROWAVE IRRADIATED CROSS COUPLING REACTION OF ALLYLTRIFLUOROBORATE AND BENZOYL HALIDE**
Kwei-Yu L.*, and Alam, S.; Advisor, Dr. Mohammad Al-Masum. Department of Chemistry
- P50 SYNTHESIS AND STRUCTURE ACTIVITY RELATIONSHIP OF SOME FLUORINATED ACRIDONE DERIVATIVES AS POTENTIAL BIOLOGICALLY ACTIVE COMPOUNDS**
Otome, A.*, Okoromoba, E.*, and Okoro, C. O.; Advisor, Dr. Cosmas Okoro. Department of Chemistry
- P51 DESIGN AND SYNTHESIS OF FLUORINATED CHROMEN-5(6H)-ONE AS POTENTIAL ANTICANCER AGENTS**
Mumiye A. O.* and Okoro, C. O.; Advisor, Dr. Cosmas O. Okoro. Department of Chemistry
- P52 SYNTHESIS AND ANTICANCER ACTIVITY OF FLUORINATED 6,7-DIHYDRO-1H-INDOL-4(5H)-ONE DERIVATIVES**
Hadijatu M.* and Okoro, C.; Advisor, Dr. Cosmas Okoro. Department of Chemistry
- P53 DIBUTYLTIN ACTIVATES MAP KINASES IN HUMAN NATURAL KILLER CELLS**
Odman-Ghazi, S.*, Abraha, A., Taylor, T., Isom, E., and Whalen, M.; Advisor Dr. Margaret M. Whalen.
Department of Chemistry
- P54 SYNTHESIS AND ANTIOXIDANT ACTIVITY OF FLUORINATED ACRIDONE DERIVATIVES**
Callicutt, Jarvis*; Advisors, Drs Cosmas Okoro, William Boadi, and Otome Okoromoba. Department of Chemistry
- P55 TRACE METALS IN PHARMACEUTICAL PREPARATIONS**
Gray, Kharmen*; Advisor, Dr. Theodore Duello. Department of Chemistry
- P56 BETA-CYCLODEXTRIN IN HOST-GUEST INTERACTIONS**
Juniel, Charla*; Advisor, Dr. Tasneem A. Siddiquee. Department of Chemistry
- P57 SYNTHESIS AND CHARACTERIZATION OF POLYSACCHARIDE-STABILIZED NANOPARTICLES**
Bradley Ashley*; Advisor, Dr. Koen Vercruysse. Department of Chemistry
- P58 SYNTHESIS OF GOLD AND SILVER NANOPARTICLES USING POLYSACCHARIDES**
Robinson, Sherene* and Tyler, L.; Advisor, Dr. Koen Vercruysse. Department of Chemistry
- P59 SYNTHESIS OF A DIELS-ALDER ADDUCT FOR HOST-GUEST CHEMISTRY**
Williams, Destiny*; Advisor, Dr. Tasneem Siddiquee. Department of Chemistry

HEALTH, EDUCATION, AND SOCIAL SCIENCES

- P60 THE IMPACT OF GENDER ON STANDARDIZED TESTS: A META-ANALYSIS OF EXISTING STUDIES 1987 – 2007**
Hendrix, Nicole K.*; Advisor, Dr. Stephen Trotter. Department of Psychology
- P61 HEALTH PROMOTION IN OLDER ADULTS USING A TECHNOLOGICAL METHOD**
Chatman, Mauricia*; Advisor, Dr. Elizabeth Brown. Department of Health Administration and Health Sciences
- P62 EXERCISE INTERVENTIONS FOR SMOKING CESSATION: A LITERATURE REVIEW**
Bonds, Susanne*, Hipps, Amy, and Horton, Kyle; Advisor, Dr. Deborah Edmondson. Department of Physical Therapy
- P63 CHRONIC DEEP VEIN THROMBOSIS: THE EFFICACY OF OPEN VERSUS CLOSED CHAIN EXERCISES**
Buchanan, Faith*, Gahagan, Kelsey, Haley, Lauren, and Parsons, Cristen; Advisor, Dr. Natalie Houseel.
Department of Physical Therapy
- P64 PHYSICAL THERAPY IN THE NEONATAL INTENSIVE CARE UNIT (NICU)**
Shelide, April* and Buchanan, Faith; Advisor, Dr. Natalie Houseel. Department of Physical Therapy
- P65 A QUALITATIVE ANALYSIS OF “GETTING INTO GRADUATE SCHOOL” JOURNALS**
Johnson-Arnold, I., Finger, B.*, Watson, J., Barden, G., Sipes, H., and Taylor, K.; Advisor, Dr. Iris Johnson-Arnold.
Department of Speech Pathology
- P66 WILL THE USE OF SUPPLEMENTAL CREATINE DECREASE REHABILITATION TIME AMONG YOUNG ADULTS COPING WITH THE EFFECTS OF IMMOBILIZATION RELATED INJURIES?**
Corn, Matthew*, Kallail, Don, Payne, Darin, Bullock, Chad, and Raynes, Ediberto; Advisor, Dr. Ediberto Raynes.
Department of Physical Therapy
- P67 DOES PROPHYLACTIC MANAGEMENT OF PREDISPOSING RISK FACTORS OF THE ACL IN ADOLESCENT FEMALE SOCCER ATHLETES INCREASE THE RISK OF FURTHER INJURY OR IMPEDE PERFORMANCE?**
Anderson, A*, Kizer, K., and Bukoskey, T.; Advisor, Dr. Thomas Bukoskey. Department of Physical Therapy
- P68 RELATIONSHIP BETWEEN PROPHYLACTIC MANAGEMENT OF PREDISPOSING RISK FACTORS AND NON CONTACT ACL INJURIES WITH FEMALE ATHLETES: ANALYSIS OF THE EVIDENCE-BASED LITERATURE**
Graves, M*, Humphreys, R., and Bukoskey, T.; Advisor, Dr. Thomas Bukoskey. Department of Physical Therapy

PRESENTATION SCHEDULES

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- P69** **PROPHYLACTIC MANAGEMENT OF PREDISPOSING RISK FACTORS AND NON CONTACT ACL INJURIES WITH FEMALE ATHLETES**
Graves, M. and Humphreys, R.; Advisor, Dr. Thomas Bukoskey. Department of Physical Therapy
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- P70** **DOES MANAGEMENT OF RISK FACTORS TO AN ACL INJURY CREATE FURTHER INJURY OR ALTER PERFORMANCE?**
Anderson, A.* and Kizer, K.; Advisor, Dr. Thomas Bukoskey. Department of Physical Therapy
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- P71** **I AM NOT PART OF THE SIDESHOW: WOMEN AND TATTOOS, PERCEPTIONS OF BODY MODIFICATIONS**
Sisk, Lisa*; Advisor, Dr. Robin Oatis-Ballew. Department of Psychology
-
- P72** **WILL THE USE OF ORTHOTICS PREVENT TIBIAL STRESS FRACTURES IN MARCHING ACTIVITIES?**
Houchin, L.* and Stewart, T.; Advisor, Dr. Deborah Edmondson. Department of Physical Therapy
-
- P73** **PRADER-WILLI SYNDROME: FOUNDATIONAL INFORMATION FOR THE PHYSICAL THERAPIST**
Cunningham, Jim*, Christiansen, Shannon, Jeffers, Felicia, and Shelide, April; Advisor, Dr. David Lehman. Department of Physical Therapy
-
- P74** **PRADER-WILLI SYNDROME AND PHYSICAL THERAPY: A PROPOSED TREATMENT PROTOCOL**
Christiansen, Shannon*, Cunningham, Jim, Jeffers, Felicia, and Shelide, April; Advisor, Dr. David Lehman. Department of Physical Therapy
-
- P75** **RECOMMENDED PHYSICAL THERAPY INTERVENTIONS FOR IMPROVING PARTICIPATION IN CHILDREN WITH DUCHENNE'S MUSCULAR DYSTROPHY**
Elmore, S., Ochoa*, K., Sabbatini, M., and Strader, R.; Advisor, Dr. David A. Lehman. Department of Physical Therapy
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- P76** **QUESTIONS FOR AN SLP: A SURVEY OF ARTICULATION AND PHONOLOGICAL PRACTICES**
Johnson-Arnold, I., Gully, S*, Parker, J., Robertson, Q., and Rodriguez, I.; Advisor, Dr. Iris Johnson-Arnold. Department of Speech Pathology
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- P77** **ADULT ATTACHMENT AND HIGH RISK SEXUAL BEHAVIOR**
Pitts, Alexis*; Advisor, Dr. Marie Hammond. Department of Psychology
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- P78** **FATHER ABSENCE AND SELF-DESTRUCTIVE BEHAVIORS IN AFRICAN-AMERICAN WOMEN**
Tumbling, Shayla*; Advisor, Dr. Marie S. Hammond. Department of Psychology
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- P79** **COPING WITH VOICES AND STRESS: CORRELATIONS WITH VOICE RELATIONSHIPS**
Joppich, Heather*; Advisor, Dr. Marie Hammond. Department of Psychology
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- P80** **ATTRIBUTION AND SELF-INJURY AMONG COLLEGE STUDENTS AT A HISTORICALLY BLACK UNIVERSITY/COLLEGE**
Johnson, Sade*; Advisor, Dr. Guler Boyraz. Department of Psychology
-
- P81** **COLLEGE CRISIS: LINK BETWEEN PARENTAL DIVORCE AND A PREDISPOSITION TO DEPRESSION AMONG FEMALE UNDERGRADUATES**
Blackwood, Suzanne*; Advisor, Dr. Robin Oatis-Balew. Department of Psychology
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- P82** **THE IMPACT OF EMDR TREATMENT ON INDIVIDUAL RESILIENCE: A PILOT STUDY**
Walton, Maria F.*; Advisor, Dr. Marie Hammond. Department of Psychology
-
- P83** **NURTURE: CONSISTENT ALTERNATIVE ENVIRONMENTS AND ITS RELATION TO SELF-ESTEEM IN ADOLESCENTS**
Elam, Tamara*; Advisor, Dr. James Campbell. Department of Psychology
-
- P84** **MEDIA INFLUENCE ON BODY IMAGE DISSATISFACTION**
Gibbs, Makisha*; Advisor, Dr. Linda Guthrie. Department of Psychology
-
- P85** **RACIAL IDENTITY, THE AFROCENTRIC WORLDVIEW, AND DATING PREFERENCES AND BEHAVIORS OF AFRICAN AMERICANS**
Ocen, Michelle*; Advisor, Dr. Marie Hammond. Department of Psychology
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- P86** **SPIRITUALITY AND COPING WITH GRIEF AND LOSS AMONG AFRICAN AMERICAN COLLEGE STUDENTS**
Foster, Dana*; Advisor, Dr. Marie Hammond. Department of Psychology
-
- P87** **OBESITY AMONG AFRICAN AMERICAN AND LATINO ADOLESCENT GIRLS**
Smith, Carlisha*; Advisor, Dr. Pamela Hull. Center for Health Research
-
- P88** **PARENT AND PEER ATTACHMENT OF COLLEGE STUDENTS: FATHERLESS VERSUS DUAL-PARENT HOMES**
Narain, Ariane*; Advisor, Dr. Marie Hammond. Department of Psychology
-
- P89** **INCREASED INTIMACY SKILLS IN MEN REAP INCREASED RELATIONAL SATISFACTION**
Chester, Robin*; Advisor, Dr. Robin Oatis-Ballew. Department of Psychology
-

PRESENTATION SCHEDULES

- P90 TARGETING HEALTH DISPARITIES IMPROVING CHILD AND DRIVER SAFETY**
Massey, Krystal*; Advisor, Dr. Owen Johnson. Department of Health Sciences
- P91 EFFECTS OF STEP-FAMILY AND BLENDED FAMILY ENVIRONMENT UPON BIRTH ORDER AND ACHIEVEMENT**
Wolf, Jillian*; Advisor, Dr. Marie Hammond. Department of Psychology
- P92 CANCER SCREENING UTILIZATION IN COMMUNITY HEALTH CLINICS**
Sherrill, Angel*, Hull, Pamela, Reece, Michelle, Emerson, Janice, Cain, Van, Schlundt, David, and Levine, Robert;
Advisor, Dr. Pamela Hull. Center for Health Research

Poster Presentations Faculty and Staff Posters

Poster Presentations will be in the Research and Sponsored Programs Building, Lower Level

- F101 EQUIFINALITY AND UNCERTAINTY IN MODELING SOIL RESPIRATION**
Hui, Dafeng* and Shen, Weijun. Department of Biological Sciences
- F102 COMPARISON OF MANUKA OIL BAITED AND UNBAITED TRAPS FOR THE CAPTURE OF BUPRESTIDS AND CERAMBYCIDS**
Youssef, N. N.*, Oliver, J. B., and Basham, J. P. School of Agriculture and Consumer Sciences
- F103 EVALUATION OF INSECTICIDES, BIOPESTICIDES, AND STRESS TREATMENTS ON TREE ATTACKS BY AMBROSIA BEETLES**
Oliver, J. B.*, Ranger, C. M., Reding, M. E., Schultz, P. B., Youssef, N. N., and Moyseenko, J. J. School of Agriculture and Consumer Sciences
- F104 INCREASING DIVERSITY OF U.S. BLACK AND MINORITY FARM OPERATORS IN THE SOUTH**
Amenyenu, A.*, Singh, S. P., Tegegne, F., and Ekanem, E. School of Agriculture and Consumer Sciences
- F105 COMPARISONS OF MICROBIAL CONTAMINATION AND CLEANING PRACTICES OF HOME KITCHENS IN NASHVILLE, TN**
Chen, Fur-Chi*, Godwin, Sandria, L., Kilonzo-Nthenge, Agnes, Rotich, Emily, Sheshachala, Bhargavi, and Thompson, Cindy. School of Family and Consumer Sciences
- F106 THE INTERNET SHOPPING IN THE CUSTOMIZED APPAREL MARKETING**
Seo, Jung-Im.* School of Family and Consumer Sciences
- F107 EVALUATION OF OPTIMUM FLOOR SPACE REQUIREMENT OF THE PEARL GREY GUINEA FOWL**
Nahashon, Samuel.* School of Agriculture and Consumer Sciences
- F108 PREVALENCE AND ANTIMICROBIAL SUSCEPTIBILITY OF ENTEROBACTERIACEAE ISOLATES ON CONDIMENT JARS AND CONTAINERS IN DOMESTIC REFRIGERATORS**
Kilonzo-Nthenge, A.*, Rotich, R., Godwin, S., Chen, F., and Thompson, C. School of Family and Consumer Sciences
- F109 PEER SERVICE LEARNING: WORLD AIDS DAY PROMOTING HEALTHY BEHAVIORS THROUGH HIV/AIDS EDUCATION**
Foxy, Terri*, Brown, Elizabeth, and Samuels, A. Dexter. Department of Health Administration and Health Sciences
- F110 DRIVERS WITH A CHILD PASSENGER ARE MORE AT RISK FOR INJURY THAN THEIR CHILD PASSENGER DUE TO THE DRIVER NOT WEARING A SEATBELT**
Foxy, Terri*, Samuels, Dexter A., Brown, Elizabeth, Johnson, Owen, and Massey, Krystal. Department of Health Administration and Health Sciences
- F111 USING SERVICE LEARNING TO EDUCATE CONSUMERS ON KEEPING FOOD SAFE DURING AN EMERGENCY**
Stone, Richard*, Godwin, Sandria, and Coppings, Richard. School of Family and Consumer Sciences
- F112 POTENTIAL FOR CROSS CONTAMINATION OF FOODS THROUGH IMPROPER STORAGE IN HOME REFRIGERATORS**
Godwin, Sandria*, Chen, Fur-chi, and Stone, Richard. School of Family and Consumer Sciences
- F113 MYROTHECIUM RORIDUM AS A NEW DISEASE IN GARDEN HYDRANGEA**
Mmbaga, Margaret T.* and Sauve, Roger J. Department of Plant and Soil Science
- F114 LEAF SPOT DISEASE ON ORNAMENTAL FLOWERING CHERRY**
Mmbaga, Margaret* and Sauve, Roger. Department of Plant and Soil Science
- F115 IDENTIFICATION OF PHOMA LEAF SPOT IN BIG LEAF HYDRANGEA**
Mmbaga, Margaret T.* Department of Plant and Soil Science

School of Nursing Day

REFORM FOR HEALTHCARE PROFESSIONALS: OVERCOMING OBSTACLES AND MOVING INTO COLLABORATION

Pamela C. Hull, Ph.D., is Associate Director of the Center for Health Research at Tennessee State University. Dr. Hull is a medical sociologist with expertise in health and race and ethnicity; prevention, early detection and management of chronic conditions including obesity, diabetes, and cancer; the impact of community factors on health; access to health care; and program evaluation. Dr. Hull conducts community-based participatory research in collaboration with community partners in the Nashville Hispanic and African American communities. She also collaborates with researchers from Vanderbilt University and Meharry Medical College, including the Cancer Outreach Core of the Meharry-Vanderbilt Cancer Partnership. Some of Dr. Hull's research focuses on developing and evaluating community-based programs to improve health, while other research projects involve statistical analysis of large databases. Dr. Hull earned a Bachelor's degree in Sociology from Duke University, and a Masters and Ph.D. in Sociology from Vanderbilt University. She has additional background in immigration and Latin American studies, and is fluent in Spanish.



Pamela C. Hull, Ph.D., *Speaker*

Monday, March 15, 2010

Schedule of Events

James E. Farrell - Fred E. Westbrook Building, 118

8:00 am	Registration and Continental Breakfast
8:30 am	Occasion and Welcome by Dr. Kathy L. Martin, <i>Dean - School of Nursing</i>
8:30 am - 9:15 am	MSN and BSN Poster Presentations
9:20 am - 10:55 am	Concurrent Sessions
11:00 am - 10:55 am	Presentation by Sponsors
11:30 am - 12:00 noon	Luncheon
12:10 pm - 12:40 pm	Keynote Address Keynote Speaker - Dr. Pamela C. Hull , <i>Associate Director</i> Center for Health Research, Tennessee State University

APLS Day

THE ASSOCIATION OF PRE-PROFESSIONAL LIFE SCIENTISTS

APLS is a multi-disciplinary, multi-institutional professional organization, founded at TSU in 2007, focused on providing a more well-rounded college experience to students in the Life Sciences. Through academic enrichment, professional development, life science education and student advocacy, APLS seeks to become an important resource supplement to its members' undergraduate and/or graduate training. As of January 2010, APLS boasts a membership roster of over 150 students, faculty and staff at Tennessee State University, Meharry Medical College, Vanderbilt University and, most recently, Middle Tennessee State University.

The APLS community outreach objective is to engage K-12 students from limited-resource families and communities through STEM-based activities and to provide public education in those areas. During the 2008-2009 academic year, APLS logged over 215 hours of community service and engaged over 1700 K-12 students and parents at local community centers, churches, and schools. The current APLS administration, under the leadership of APLS President Christianna Howard, is poised to do some wonderful things this year, both on campus and in the community. Students and faculty with an interest in the life sciences, technologies or research are encouraged to visit APLS at www.aplsglobal.org or email us at info@aplsglobal.org.



2010 APLS Leadership:

- Christianna Howard, President and Chair of Enrichment Activities
- LaKeshia Glover, Vice President and Chair of Service Activities
- Syrira Murray, Treasurer and Chair of Finance Committee
- Rendie McHenry, Secretary
- Carl Darris, Co-Executive Director James Tyus, Co-Executive Director Ashley Pellerin, Executive Secretary

Monday, March 15, 2010

Schedule of Events

Research and Sponsored Programs Building

Conference Room 209

- 1:00 pm – 4:00 pm **APLS Webinar Theater**
- *Science Careers Away from the Bench*
 - *Effective Laboratory Skills: Managing People, Projects and Money*
 - *Open Innovation and Social Networking*

Nanoscience and Biotechnology Core Facility

- 1:00 pm – 2:00 pm **Genetics Workshop with High School Students:**
Crime Scene Investigation

Conference Room 163

- 2:00 pm – 3:30 pm **APLS Life Science Challenge and Competition**
- 3:30 pm – 5:00 pm **Panel Discussion with Faculty and Administrators:**
"Success in Science: Beyond the Classroom"

First Floor Lobby

- 5:00 pm – 6:00 pm **Reception and Professional Mixer**

Floyd-Payne Campus Center

- 6:00 pm – 9:00 pm **Featured Film**

Engineering, Technology and Computer Science Day

Dr. S. Keith Hargrove was recently appointed the Dean of the College of Engineering, Technology and Computer Science at Tennessee State University (TSU). He previously served as Chairperson of the Department of Industrial, Manufacturing & Information Engineering in the Clarence Mitchell, Jr. School of Engineering at Morgan State University in Baltimore, MD. Dr. Hargrove received his B.S. degree in Mechanical Engineering from TSU in 1985, M.S. degree from the Missouri University of Science & Technology in Rolla, MO. as a National Consortium for Graduate Degrees for Minorities in Engineering and Science, Inc. (GEM) Fellow, and the Ph.D. degree from the University of Iowa as a Committee of Institutional Consortium (CIC) Fellow. Dr. Hargrove was a Boeing Welliver Faculty Fellow (2008), and a Harvard Fellow with the Division of Engineering & Applied Sciences, Harvard University (2005-2006). He served as Assistant to the Dean and Associate Professor of Mechanical Engineering at Tuskegee University, and has worked for General Electric, Battelle Pacific Northwest Laboratories, National Institute of Standards and Technology (NIST), Oak Ridge Laboratories, and General Motors. Dr. Hargrove has conducted research projects with Sikorsky Aircraft, Boeing, NASA, and the US Army in systems engineering, design, and manufacturing. He is an Associate Member of the Society of Manufacturing Engineers, Institute of Industrial Engineers, American Society for Engineering Education (ASEE), and the Tennessee Society of Professional Engineers. His current research interests are in virtual and augmented reality, advanced manufacturing systems, systems engineering and management, and minority engineering education. As Dean of the College of Engineering, Technology and Computer Science, he is promoting strategic initiatives that focus on ACCESS (recruitment), AFFORDABILITY (scholarships and research funding), and ATTRITION (innovative curriculum and retention).



S. Keith Hargrove, Ph.D., *Speaker*

Tuesday, March 16, 2010

Schedule of Events

James E. Farrell - Fred E. Westbrook Building, 118

11:30 am - 1:00 pm

Luncheon

Introduction of Speaker, **Dr. Mohan Malkini**, *Associate Dean of Engineering*
 Presentation by **Dr. S. Keith Hargrove**, *speaker*
 Dean, College of Engineering, Technology and Computer Science
Preparing the Global Engineer for the 21st Century

Holland Hall, Room 323 Robotics Laboratory

3:00 pm

Robotics demonstration for high school students

School of Agriculture and Consumer Sciences Day

A native of Brazil, Dr. Maria Lenira Leite-Browning is a Doctor of Veterinary Medicine and an animal reproduction specialist. She became involved in goat research and extension in 1980 as a research scientist and field veterinarian in northern Brazil. Currently, she is an animal extension scientist at Alabama A&M University.

Dr. Leite-Browning is a goat management consultant with extensive experience in goat production. This experience leads her to conduct seminars, workshops and conferences throughout the United States with the objective of educating producers, extension county agents, industry representatives and veterinarians on several issues of goat farming including nutrition, genetics, husbandry, health, reproductive management and marketing. An author of several scientific articles published in peer review journals, her work has been presented at national and international scientific conferences. Dr. Leite-Browning has a distinguished record of grantsmanship for supporting goat research.

She has been a pioneer in goat extension service in Tennessee since 2000 and successfully organized the goat industry in Tennessee. These activities were instrumental in forming the Tennessee Goat Producers Association. Dr. Leite-Browning was inducted into the “Teachers Hall of Fame” by the International Kiko Goat Association in 2009 because of such accomplishments.

Dr. Leite-Browning earned the Doctor of Veterinary Medicine (DVM) in 1980 from the Universidade Federal da Bahia in Bahia, Brazil and earned the Master of Science degree in theriogenology in 1985 from the Universidade Federal Fluminense in Rio de Janeiro, Brazil.

She is married to Dr. Richard Browning, Jr., a prominent goat research scientist, who initiated, and continues today, the goat research program at Tennessee State University.



Maria Lenira Leite-Browning, D.V.M., Speaker

Tuesday, March 16, 2010

Schedule of Events

School of Agriculture - Agriculture Information and Technology Center

1:00 p.m.	<p>Occasion by Dr. Carter Catlin, Associate Dean for Research - School of Agriculture and Consumer Sciences</p> <p>Welcome by Dr. Chandra Reddy, Dean, Director of Research and Administrator of Extension — School of Agriculture and Consumer Sciences</p> <p>Introduction of Speaker by Nannette C. Martin, School of Agriculture and Consumer Sciences</p> <p>Presentation by Dr. Maria Browning, speaker – Extension Professor, Alabama A&M University <i>Veterinary Science: The 21st Century Perspective</i></p>
1:30 p.m.	<p>The Virtual Learner in Agriculture and Consumer Sciences Presentation Jonell Hinsey, School of Agriculture and Consumer Sciences</p>
1:50 p.m. – 2:45 p.m.	<p>Agriculture and Consumer Sciences Research Demonstrations Biotechnology and Food Safety</p>

The Center of Academic Excellence in Intelligence Studies (CAEIS) Day

The Center for Academic Excellence in Intelligence Studies (CAEIS) is a student development program through which the U.S. Intelligence Community assists TSU's efforts to develop a diverse pool of analytical leaders and to positively influence student interest in the intelligence profession and service to the nation, in general. The CAEIS facilitates students becoming more culturally aware global citizens, encourages the learning of secondary languages, and most importantly, builds solid U.S. citizen graduates who are capable of making immediate contributions to professional organizations in providing solutions to 21st Century challenges.

Maura Burns, Speaker

The guest speaker for the CAEIS luncheon is Maura Burns, a 22-year veteran with the Central Intelligence Agency (CIA). Her area of focus is on the analysis of foreign weapons programs. Currently, she is an Issue Manager in the Weapons Intelligence, Nonproliferation, and Arms Control Center (WINPAC). She is a 1985 graduate from the University of Kentucky. Ms. Burns will discuss the development of critical thinking skills.

Wednesday, March 17, 2010

Schedule of Events

Agricultural Information and Technology Center

9:10 a.m. - 10:10 a.m. **Globalization and Terrorism Workshop**

Farrell-Westbrook Building, 118

10:20 a.m. - 11:20 a.m. **Intelligence Community Career Fair**

11:30 a.m. - 1:00 p.m. **Luncheon**

Presentation by Maura Burns, Issue Manager, Central Intelligence Agency, "Critical Thinking Skills"
 Panel Discussion by representatives from Intelligence Community

1:00 p.m. - 1:20 p.m. **Intelligence Community Career Fair**

Floyd-Payne Center

1:30 p.m. - 2:15 p.m. **790th AFROTC Detachment Tour**

McCord Hall 204

2:30 p.m. - 3:20 p.m. **Introduction to Biological Sciences**
 Biological Sciences Laboratory Demonstrations

Research and Sponsored Programs, Room 209

3:30 p.m. - 4:30 p.m. **Globalization and Terrorism Workshop**

Research and Sponsored Programs Lobby

4:30 p.m. - 5:30 p.m. **Scholars Reception**

Celebrate Chemistry Day

Ruth Woodall serves as the director of the Tennessee Scholars program, a rewards and recognitions program started by the Tennessee Chamber of Commerce & Industry in Nashville, Tennessee.

Prior to joining the Tennessee Chamber of Commerce & Industry, Woodall taught chemistry in Tennessee public school systems – Metropolitan-Nashville, Shelby County, and Dyer County. She has led groups of students to study chemistry in Russia and Siberia, and marine biology and zoology in New Zealand and Australia.

Presently, Woodall holds the office of councilor for the Nashville Section of the American Chemical Society (ACS). In her 19 years as an ACS member, she has served as chair of the Nashville Section, Public Relations chair in two local sections, NCW coordinator in two local sections, Government Relations chair; and she has served on the American Chemical Society Committee on Community Activities for 16 years and the Committee on Public Relations and Communications for six years. She is the past chair of the Tennessee Science Teachers Association, chair of the ACS Tennessee Government Affairs committee, a member of Tennessee ACT Policy Council, NSTA Life Members Advisory Committee chair, helped draft the current Tennessee Diploma Path for high school graduation, and is on the board of directors of the Neurological Sciences Foundation to help educate the public about neurological diseases of the brain.



Ruth Woodall, Speaker

Woodall graduated from Union University in Jackson, Tennessee where she received a degree in chemistry in 1977. She was named *Alumni of the Year* in 2004 from the Chemistry Department. In 1984, Woodall earned a Masters degree in science education from the University of Memphis. She earned another Masters degree in 1984 and has continued to earn graduate hours in chemistry and education since.

In her personal time, Woodall enjoys traveling, golfing, singing, music, swimming, playing with her three nieces and four nephews, and doing chemistry activities.

Thursday, March 18, 2010

Schedule of Events

Alger V. Boswell Building

9:00 am - 10:00 am	Tour of Chemistry Department
9:00 am - 12:00 noon	Career Fair
10:00 am - 11:00 am	Chemistry Demonstrations
11:00 am - 12:00 noon	Chemistry Challenge
12:00 noon - 2:30 pm	Student Research Poster Presentations
2:40 pm - 4:00 pm	Introduction of Speaker by Dr. Cosmas Okoro, Chemistry presentation by Ruth Woodall, Director of Tennessee Scholars Program, speaker

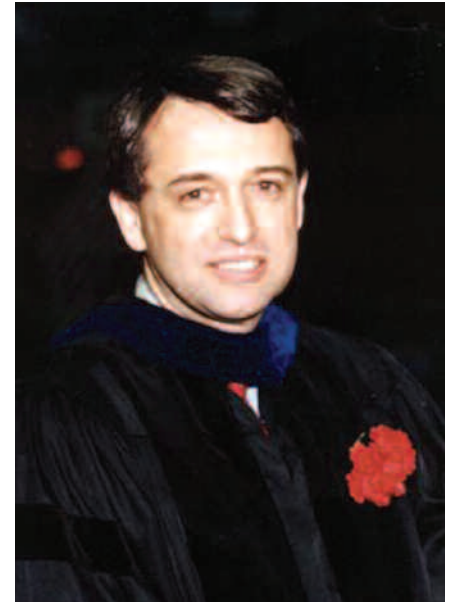
James E. Farrell - Fred E. Westbrook Building, 118

5:00 pm	Awards Dinner
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Psychology Day

James M. O'Neil, Ph.D. is Professor of Educational Psychology and Family Studies at the University of Connecticut and a licensed psychologist in private practice in South Windsor, Connecticut. In 1975, he received his doctorate from the Department of Counseling and Personnel Services at the University of Maryland.

Dr. O'Neil is one of the founding members of the Society for the Psychological Study of Men and Masculinity (SPSMM), Division 51 of the American Psychological Association. SPSMM named him Researcher of the Year in 1997 for his 20-year research program on men's gender role conflict. He is the author of the Gender Role Conflict Scale, a widely used measure of men's conflict with their gender roles. In 1995, he was awarded Teaching Fellow status by the University of Connecticut for his outstanding excellence and dedication to the university teaching profession.



James M. O'Neil, Ph.D., *Speaker*

In August 2008, Dr. O'Neil received the Distinguished Professional Service Award from Division 51 of the American Psychological Association for his 25-year research program on men's gender role conflict and his advocacy for teaching of the psychology of men in the United States. His article, "Summarizing 25 years of research on men's gender role conflict using the Gender Role Conflict Scale: New research paradigms and clinical implications" won the SAGE and The Counseling Psychologist Outstanding Contribution Award in 2009. He has advocated professional activism with gender role and social justice issues throughout his 35 years as a counseling psychologist.

Thursday, March 18, 2010

Schedule of Events

James E. Farrell - Fred E. Westbrook Building, 118

11:30 am **Luncheon** Presentation by Dr. James M. O'Neil, speaker
*Summarizing 25 years of Men's Gender Role Conflict Research:
What We Know and Its Implications for Men, Women, and the Psychology of Men*

Research and Sponsored Programs Building, Room 209

1:00 pm - 2:30 pm **Poster Session** (Student Research Poster Presentations)

2:30 pm - 4:00 pm **Workshop:** *Forgiveness: An Important but Misunderstood Process that Can Heal the Wounded and the World We Live in*
Presentation by Dr. James M. O'Neil, speaker

2:30 pm - 4:00 pm **Panel Discussion:** *Completing Your Senior Project, Thesis, and Dissertation*

5:45 pm - 7:00 pm **Awards Ceremony**

RESEARCH:

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Friday, March 19, 2010 11:30 a.m. - 1:00 p.m.

Student Awards Ceremony

James E. Farrell - Fred E. Westbrook Building, 118

Welcome

Dr. Brenda McAdory, Symposium Co-Chair

Luncheon

Presentation of Awards

Dr. Maria Thompson, Vice President for Research and Sponsored Programs

Acknowledgements and Closing Remarks

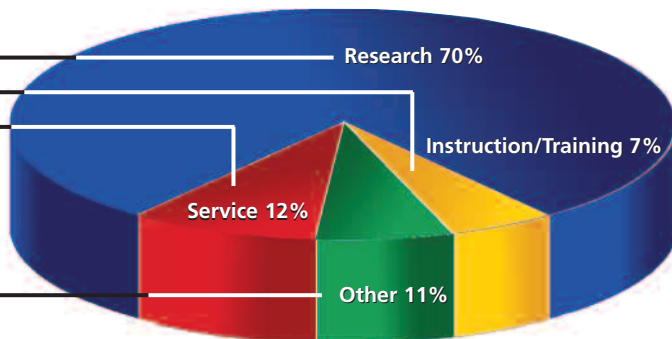
Valerie Williams, Symposium Co-Chair

Adjournment

Research and Sponsored Project Awards FY 2009

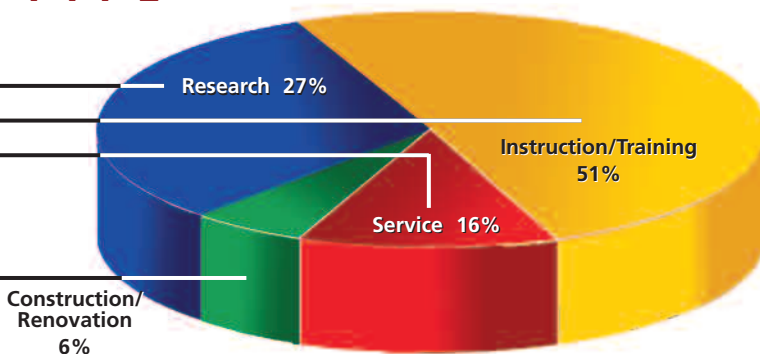
SUBMISSIONS BY PROJECT TYPE

Research	\$84,990,182	(118)
Instruction/Training	\$8,102,031	(23)
Service	\$15,315,708	(16)
Other	\$13,024,937	(20)
TOTAL	\$121,432,858	(177)



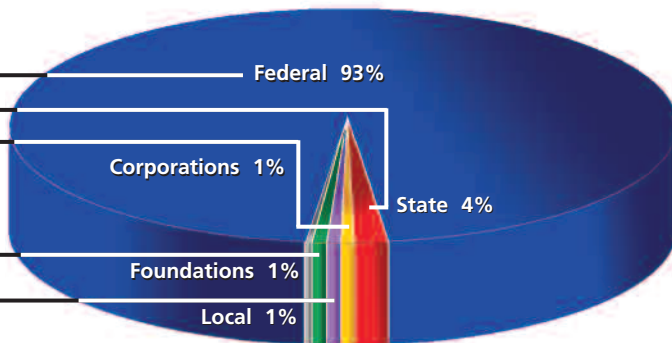
AWARDS BY PROJECT TYPE

Research	\$10,933,381	(60)
Instruction/Training	\$20,487,379	(69)
Service	\$6,318,643	(20)
Construction/Renovation	\$2,606,903	(3)
TOTAL	\$40,346,306	(152)



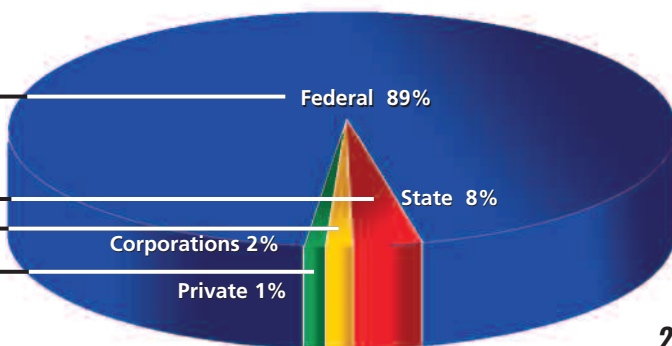
SUBMISSIONS BY SOURCE

Federal	\$113,520,060	(112)
State	\$5,335,510	(39)
Corporations	\$492,053	(3)
Private Foundations	\$970,531	(9)
Local	\$1,052,100	(10)
Other	\$62,605	(4)
TOTAL	\$121,432,858	(177)



AWARDS BY SOURCE

Federal	\$36,175,748	(124)
State	\$3,204,435	(14)
Corporations	\$685,083	(6)
Private	\$281,040	(8)
TOTAL	\$40,346,306	(152)



RESEARCH: CELEBRATING EXCELLENCE

Student Awards

R E S E A R C H S Y M P O S I U M 2 0 0 9

Graduate Student Oral Competition - Health, Education & Social Sciences

First Place	A6	Meegan Lambert, Ayile' Arnett
Second Place	A5	Christan Bishop, Gregg Hamilton, Shelina Heerdink, Raven Ingram
Third Place	A4	Adina Gociu, Selina Hill

Undergraduate Student Oral Competition - Health, Education & Social Sciences

First Place	A1	Whitney White
Second Place	A2	Susan West

Graduate Student Oral Competition - Humanities and Arts

First Place	A9	Kerry Simon
Second Place	A8	Jason Peterson
Third Place	A7	Ai Ishihara

Graduate Student Oral Competition - Engineering and Sciences

First Place	C4	James Tyus
Second Place	C2	Prashant Bajaj
Third Place	C10	Akindejii Ojetola
Third Place	C3	Christianna Howard

Undergraduate Student Oral Competition - Engineering and Sciences

First Place	B3	Warren Dean
Second Place	B2	Carlton Cobb
Third Place	B5	Olukemi Gbemisola Jolayemi

Graduate Student Poster Presentation - Health, Education & Social Sciences

First Place	P7	Kyle Cochrane, Lauren Eskew-Rogers, Kiel Huston, Jamette Hickman
Second Place	P5	Lauren Rudd, Marcus Pearson, Nikki Orazine
Third Place	P6	Alan Bungler, Dona Davis, Swaina Dhawan, LaNedra Lee

Undergraduate Student Poster Presentation - Health, Education & Social Sciences

First Place	P40	Michael Davidson
Second Place	P38	Amber Clayborne
Third Place	P42	Josh White, Susan West, McKinley Woodson, Michael Thompson

Graduate Student Poster Presentation - Life and Molecular Sciences

First Place	P18	Caleb Kersey, Xuan Le
Second Place	P20	Sabah Odman-Ghazi
Third Place	P12	Abraham Abraha
Third Place	P17	Natasha Hinkson

Undergraduate Student Poster Presentation - Life and Molecular Sciences

First Place	P49	Esther Coline Kibakaya
Second Place	P53	Felicia Udoji
Third Place	P55	Jinj Zhou
Third Place	P45	Gregory Coates

Graduate Student Poster Presentation - Engineering, Computational & Physical Sciences

First Place	P27	Olorupo Charles Agbaje
Second Place	P32	Murali Krishna Marneni
Third Place	P26	Shahrina Alam

Undergraduate Student Poster Presentation - Engineering, Computational & Physical Sciences

First Place	P67	Leon Tillman
Second Place	P68	Ashley West
Third Place	P57	Rachel Etherton, Falaknaz Gundi

Oral Presentations

1st Place - \$250
2nd Place - \$100
3rd Place - \$50

Poster Presentations

1st Place - \$150
2nd Place - \$75
3rd Place - \$25

Judges

Dr. Twum Ansah, Meharry Medical College
Dr. Anthony Baucum, Vanderbilt University
Dr. Jacqueline Burgess, Integrity Dental Care
Dr. Sanika Chirwa, Meharry Medical College
Dr. Saudat Fadeyi, Meharry Medical College
Dr. Hugh Fentress, Vanderbilt University
Dr. Robert Holt, Meharry Medical College
Dr. Heinrich Matthies, Vanderbilt University

Dr. Justus Ike, Fisk University
Dr. Mohammed A. Maleque, Meharry Medical College
Dr. Leah Miller, Vanderbilt University
Dr. Marilyn Odom, Belmont University
Aramandla Ramesh, Meharry Medical College
Dr. Jimmy B. Sheats II, Sheats Endodontic Group
Dr. James Farmer, U.S. Geological Survey
Dr. Rosalyn Webb, formerly Vanderbilt University

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S. Keith Hargrove, Engineering, Technology, and Computer Science
Christianna Howard, APLS
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David Miller, Psychology
Yvonne Myles, Biological Sciences
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and Management
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James Tyus, APLS
Verla Vaughan, Nursing
Valerie Williams, Center of Excellence for Learning Sciences
(symposium co-chair)

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Environmental Engineering
Dr. Amir Shirkhodaie, College of Engineering, Technology,
and Computer Science
Dr. Marcus W. Shute, Research and Sponsored Programs
Dr. Willard Smith, Center for Excellence in Information Systems
Engineering and Management

Congratulations to the 21 members of the Million Dollar Club. This is an exclusive club populated by scholars who, due to their commitment to excellence, are on the cutting edge in research, teaching, and service. The steady increase in sponsored research and program support is a direct result of the million dollar projects awarded to these 21 distinguished scientists, engineers, and educators. Their efforts, although measurable in dollars, are immeasurable in terms of the positive impact their work has had on the University's ability to achieve its mission.



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PROGRAMS AND PROJECTS

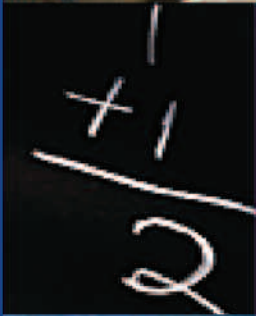
- Head Start Career Advancement Partnership Program (HS-CAPP)
- Davidson County Child Care Resource and Referral (CCR&R)
- Tennessee Early Childhood Training Alliance (TECTA)
- Tennessee State University-TN CAREs Early Head Start
- Social Services Competency Based Training (SSCBT)

RESEARCH INITIATIVES

- STEM Education
- Teaching and Learning
- Early Intervention Models
- Student Learning Measurement
- Early Childhood Educator Professional Development
- P-16 Instructor and Administrator Professional Development
- Birth to Three Curriculum, Program and Professional Development

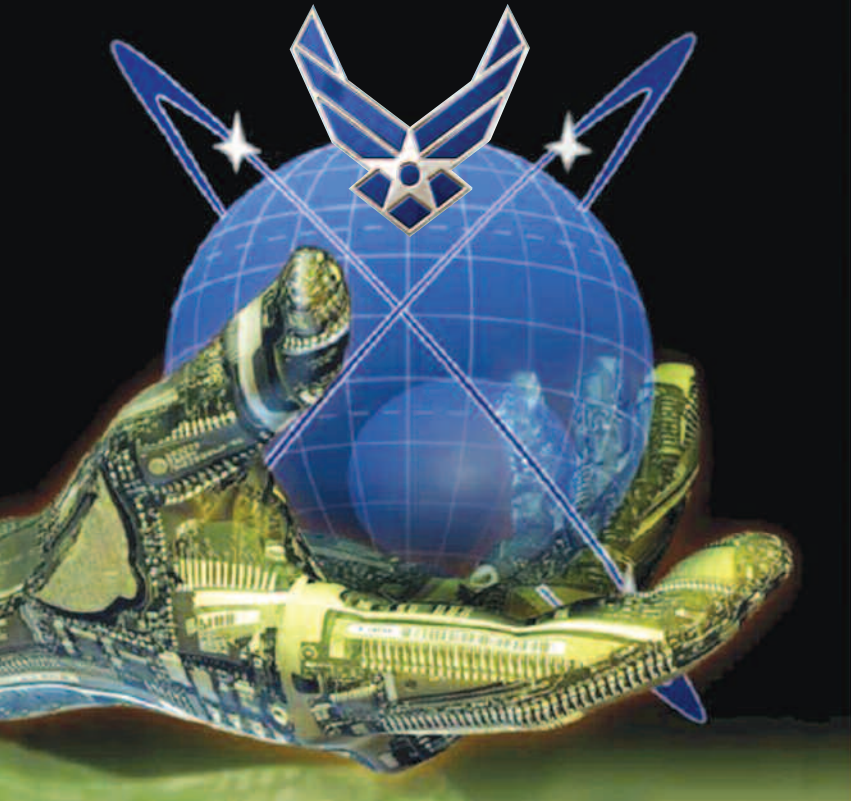
For more information, please contact:

Tennessee State University
Center of Excellence for Learning Sciences
3500 John A. Merritt Blvd., Box 9500
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- Public Administration

For More Info Contact: Phone: 615.963.5901 Email: gradschool@tnstate.edu Web: www.tnstate.edu/grad

School of Agriculture and Consumer Sciences
Transforming the Agricultural Environment and Changing Lives

We teach in *state-of-the-art* classrooms and laboratories, and conduct a multi-million dollar research program at three locations in Middle Tennessee:



The Research and Education Center at Nashville
 Research and Education Center at Cheatham County
 The Otis L. Floyd Nursery Research Center at McMinnville



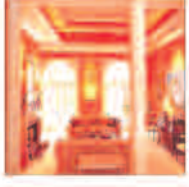
We perform public service throughout the State of Tennessee in areas of food, agriculture, the environment and consumer sciences.

Academic Degree Offerings

Department of Agricultural Sciences

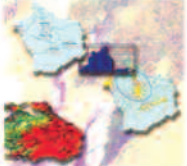
We offer the Bachelor of Science degree in Agricultural Sciences with concentrations in:

- Agribusiness
- Animal Science/Pre-Veterinary Medicine
- Food Technology
- Agricultural Education
- Applied Geospatial Information Systems
- Plant and Soil Science



We offer the Master of Science degree in Agricultural Sciences with options in:

- Agribusiness
- Animal Science
- Agricultural Education
- Plant Science



GIS Graduate Certificate

Ph.D. in Agricultural Biotechnology through the Biological Sciences Department

Department of Family and Consumer Sciences

We offer the Bachelor of Science degree in Early Childhood Education, and Family and Consumer Sciences with concentrations in:

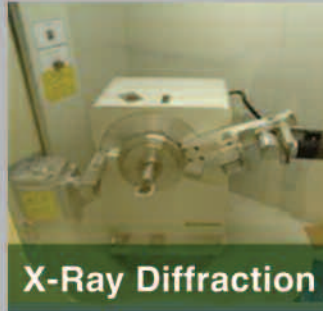
- Child Development and Family Relations
- Fashion Merchandising
- Food Service Management
- Design
- Food and Nutrition
- Family and Consumer Sciences Education



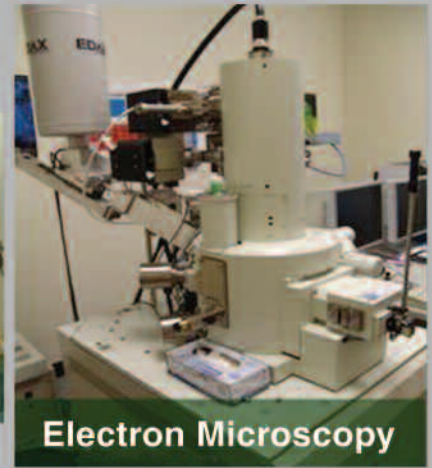
Teaching * Research * Extension

Chandra Reddy, Ph.D.

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X-Ray Diffraction



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Spectrophotometry



Dynamic Light Scattering

For more information contact:

Susan Sutton
Laboratory Director
RSP Building, Room 226
615-963-2537
sverbernesutto@tnstate.edu

The Core Research Facility houses contemporary analytical tools open to all faculty on campus. Located on the second floor of the *Research and Sponsored Programs* building, the laboratories welcome researchers to discover the power these instruments can add to their research.



THE CENTER FOR ACADEMIC EXCELLENCE IN INTELLIGENCE STUDIES (CAEIS)

Salutes

the 32nd Annual University-Wide Research Symposium

The Center for Academic Excellence in Intelligence Studies (CAEIS) is the program through which the U.S. Intelligence Community assists Tennessee State University's efforts to develop a diverse pool of analytical leaders; to positively influence student interest in the intelligence profession and service to the nation in general; to facilitate students to become more culturally aware citizens; to encourage the learning of a secondary language; and most importantly, to build solid U.S. citizen graduates who are capable of serving the nation in any capacity.



THE SCHOLAR'S EXPERIENCE AT TENNESSEE STATE UNIVERSITY (TSU)

The Scholar in U experience engages students more deeply in their learning and contributes to their intellectual, professional, and personal growth in unique ways. The undergraduate student is challenged to include the scholarly experiences - leadership, service learning, research, globalization, and pre-professional organizations - into their degree programs. Students develop competence in the principles of undergraduate learning to include, core communication and quantitative skills, analysis, critical thinking, integration and application of knowledge. Accountability, morals, and ethics are stressed through curricular and co-curricular activities.

The Scholar in U experience enhances the teaching and learning process that occurs during formal class work. These experiences build on TSU's long tradition and commitment to "Think, Work, and Serve." The Scholar in U is a virtuous cycle of value creation for the student. Each module incorporates qualified experiences, integration of knowledge, reflection, and assessment and will be documented on the student's records. The student's undergraduate experiences include continuous intellectual growth; and they graduate with greater preparation to face global challenges.

The Scholar in U experience is distinctive because it intentionally uses experiential learning to prepare students for graduate school, careers, and citizenship. It provides skills, knowledge, and experiences that are highly prized by employers and establishes the foundation for future leaders.



Mr. Mark Brinkley, Director
Telephone (615) 963-7660
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MISSION:

The mission of the College of Business is to educate future business professionals through innovative teaching and applied research focused on contemporary business operations for the global economy, complemented with outreach services directed toward enhancing entrepreneurship and economic development.

UNDERGRADUATE PROGRAM - BBA

The College of Business offers Bachelor of Business Administration (BBA) programs to undergraduates in:

- Accounting
- Business Administration
- Business Information Systems
- Economics and Finance

GRADUATE PROGRAM - MBA

The MBA program offers the following concentrations:

- Accounting
- Management of Information Systems
- Healthcare Economics and Management
- Supply Chain Management

Dr. Tilden Curry, Dean

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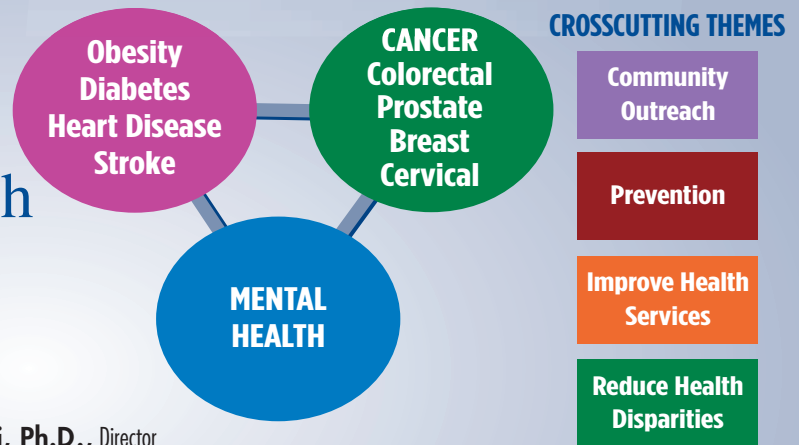
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TENNESSEE
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Center for Health Research

RESEARCH AREAS



Baqar A. Husaini, Ph.D., Director
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 Phone: (615) 320-3005 • Fax: (615) 320-3071 • www.tnstate.edu/healthresearch



MISSION: To conduct interdisciplinary research aimed at improving health outcomes and reducing health disparities.

College of Arts & Sciences

PROGRAMS

Africana Studies

Art

Biological Sciences

Chemistry

Communications

Criminal Justice

History

Geography

Political Science

Foreign Languages

English

Philosophy

Music

Physics

Mathematics

Social Work

Sociology

Interdisciplinary Studies

Teacher Certification

International Affairs

Women's Studies

The College of Arts and Sciences is committed to excellence in teaching and advising, research and creative activity, and public service. The College aims to provide students with a solid academic foundation upon which to pursue lifelong learning and build successful lives and careers.



We believe that the promotion of active, inquiry-based learning communities, revolving around faculty and student research is paramount in the preparation of students for careers in the 21st century. In building these learning communities, we are proud of the work of our faculty in securing external funds to support their research and to provide research training opportunities for students.

As the College of Arts and Sciences continues to build on a legacy of scholarly excellence and service, we are indebted to the faculty and students who present research papers to scholarly audiences, publish books and journal articles and apply research findings to advance public policy. The scholarly contributions of these faculty and students will help to sustain this University for future generations.



Gloria C. Johnson, Ph.D.
Interim Dean

Degrees Offered

B.A. • B.S. • M.A. • M.S. • M.C.J. • Ph.D.



For Information, contact:
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Tennessee State University
Division of Research and Sponsored Programs
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Telephone 615-963-7631 • FAX 615-963-5068
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Website: www.tnstate.edu
Publication number: TSU-10-0028 (B)-8a-61050



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College of Engineering, Technology and Computer Science

S. Keith Hargrove, Ph.D., *Dean*

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Architectural Engineering

Civil Engineering

Electrical Engineering

Mechanical Engineering

Computer Science

Aeronautical and Industrial Technology

M.S. Degree

Computer and Information Systems Engineering

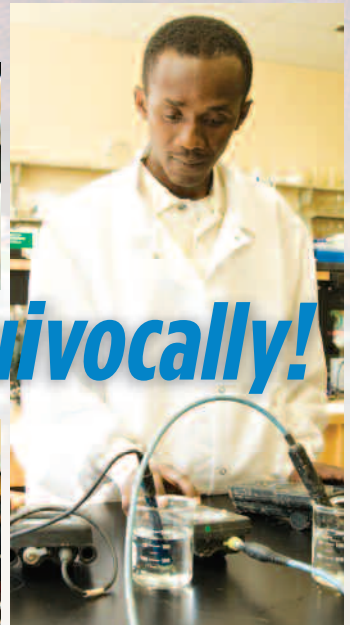
Master of Engineering (M.E.) Degree

Ph.D. Degree

Computer and Information Systems Engineering

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