Recognizing the

MASSIE CHAIR OF EXCELLENCE

Professorship of Engineering in the Environmental Disciplines
Distinguished supporter of the
33rd Annual University-Wide Research Symposium

Dr. Lonnie Sharpe, Jr., Chair

The Massie Chair of Excellence is sponsored by
the U.S. Department of Energy
Office of Environmental Management
33rd Annual University-Wide Research Symposium

March 14-18, 2011

Tennessee State University

Official 2011 Symposium Program

Cover photograph by Vando Rogers, Nashville, Tennessee. Graduate student researchers, Department of Biological Sciences featured: Sparkle D. Williams (seated); Marlika West (center); and Christianna Howard (right).

Editor, Nannette Carter Martin
March 14, 2011

Dear Colleagues:

Welcome to Tennessee State University, the “land of golden sunshine” celebrated in our Alma Mater sung since 1918, and to the 33rd Annual University-Wide Research Symposium.

On our eve of centennial celebration, research is and must be a student-centered educational component at Tennessee State University in order to continue to deliver a world-class education for our graduates in the 21st Century. A prime attribute of a competitive collegian is knowledge in the process of research, creativity, and discovery. The Symposium is a week-long forum for students and faculty to confer with and to present research endeavors to the campus and affiliated publics for an interactive and collaborative critique of the research process - content and conclusion.

As we confer, we also celebrate excellence in research as exemplified by our symposium keynote speaker James Hildreth, Ph.D., M.D., Professor of Internal Medicine and Director of the Center for AIDS Health Disparities Research, who hails from our university’s research and community partner, Meharry Medical College. Dr. Hildreth’s research has made a global impact and his presence as a model of success to our students promises to plant an additional seed of greatness in the next generation of researchers.

As you discuss the countless issues along the spectrum of knowledge during the research symposium, be cognizant that your presence and contribution represent a core dynamic of Think, Work, and Serve.

Sincerely,

Portia H. Shields, President
Tennessee State University
March 14, 2011

Dear Colleagues:

Welcome to the 33rd Annual University-Wide Research Symposium, which is our hallmark of research excellence on the 21st Century college campus of Tennessee State University.

The Symposium is comprised of a week of interdisciplinary presentations by faculty and students seeking competitive awards for their deliberative innovation that showcases the research process from classroom to solution.

The Symposium constitutes an annual capstone of university-wide research endeavors that deliver academic value to Tennessee State University undergraduate and graduate students, such as the Institute of Agricultural and Environmental Research (IAgER), the Undergraduate Research and Creative Activities (UReCA) Program, the Undergraduate Research and Mentoring (URM) Program in Ecology and Environmental Science, the NASA Science, Engineering, Mathematics, and Aerospace Academy (SEMAA), and the TSU Scholar’s Experience (“The Scholar in U”), which is an engaged model of experiential learning that provides a series of engagements in research, study abroad, career development, leadership, and service.

From the Symposium to SEMAA, Tennessee State University is committed to student-centered activities that enhance the competitiveness of our graduates in the global market place.

On behalf of the Division of Research and Sponsored Programs, we celebrate this campus environment of excellence which is produced by the collaborative competition that is fostered by the Symposium and the research that it represents.

Sincerely,

Maria Thompson, Ph.D.
Vice President
Research and Sponsored Programs
33RD ANNUAL UNIVERSITY-WIDE RESEARCH SYMPOSIUM

OPENING CEREMONY
AND PLENARY SESSION

MONDAY, MARCH 14, 2011
2:00 PM – 4:00 PM
E. T. GOINS RECITAL HALL, 174 IN THE PERFORMING ARTS CENTER

Prelude .................................................................................................................................................. Dorian Townsend, Soloist
Miranda Gladney, Pianist
Tennessee State University “Alma Mater”, Laura M. Averitte, 1918

Introduction of the Tennessee State University President
Dr. Maria Thompson
Vice President
Division of Research and Sponsored Programs

Welcome and Greetings
Dr. Portia Holmes Shields
President, Tennessee State University

Occasion
Mrs. Nannette C. Martin
Research Symposium Co-Chair

Introduction of Keynote Speaker
Dr. Maria Thompson
Vice President
Division of Research and Sponsored Programs

Keynote Address
Dr. James E. K. Hildreth, Ph.D., M.D.
The HIV Pandemic: Current Status and New Insights

Remarks and Presentation of Award
Dr. Maria Thompson
Vice President
Division of Research and Sponsored Programs

Acknowledgements and Announcements
Dr. Carolyn Caudle
Research Symposium Co-Chair

Postlude .................................................................................................................................................. Evelyn Laureano, Pianist

Reception to follow in the Rotunda

Dorian Townsend, Senior in Music
Miranda Gladney, Junior in Music Education
Evelyn Laureano, Graduate Student in Music Education
Dr. Hildreth was born and raised in Camden, Arkansas. In 1975, he graduated Valedictorian from Camden High School before attending Harvard University on an academic scholarship. He graduated magna cum laude from Harvard in 1979 with a bachelor’s degree in chemistry. Dr. Hildreth then attended Oxford University in England as the first African American Rhodes Scholar from Arkansas. He obtained a Ph.D. in immunology from Oxford in 1982 and returned to the United States to enter Johns Hopkins University School of Medicine. He graduated from Hopkins with an M.D. degree in 1987.

Dr. Hildreth joined the faculty at Johns Hopkins in 1987 as Assistant Professor of Pharmacology and rose to become the first African American tenured full professor in basic sciences in the long history of the school. He also served as the first Associate Dean for Graduate Students at the medical school. Dr. Hildreth’s research spans more than 20 years and he has made substantial contributions in the field of HIV research. He is known internationally for his work on the role of cholesterol in HIV biology. Dr. Hildreth has published over 90 scientific papers and holds 11 patents based on his research.

Dr. Hildreth has received numerous awards for his service and research including the Presidential Young Investigator Award. In 2008, he was elected to the Institute of Medicine of the National Academy of Sciences, one of the highest honors possible for physician scientists. He was elected to the Arkansas Black Hall of Fame in 2009; other members include Bill Clinton, Maya Angelou and Jocelyn Elders.

Dr. Hildreth continues his research to develop a microbicide to protect women against HIV transmission. In addition, he travels nationwide to speak on HIV as part of a Center for Disease Control (CDC) funded effort to strengthen partnerships between churches, health care providers, and researchers in the fight against the virus.
### Overview of Events

**Monday, March 14, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 8:00 a.m. - 1:30 p.m. | **Symposium Registration** – Program booklets available  
Research and Sponsored Programs Bldg, First Floor Lobby |

**ORAL PRESENTATIONS**  
Research and Sponsored Programs Building, Room 163

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 a.m. - 11:00 a.m.</td>
<td><strong>GRADUATE ENGINEERING I</strong></td>
</tr>
<tr>
<td>11:00 a.m. - 1:30 p.m.</td>
<td><strong>UNDERGRADUATE ENGINEERING I</strong></td>
</tr>
</tbody>
</table>

**School of Nursing Day** • 8:00 a.m. - 1:00 p.m. James E. Farrell – Fred E. Westbrook Building, 118

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 11:40 a.m. - 1:00 p.m. | **Luncheon – Speaker**  
Dr. Vanessa Jones-Briscoe, Assistant Professor of Medicine, Vanderbilt University Medical Center |

**RESEARCH SYMPOSIUM OPENING CEREMONY AND PLENARY SESSION**  
E. T. Goins Recital Hall, 174 in the Performing Arts Center

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
</table>
| 2:00 p.m. - 3:00 p.m. | **Keynote Address – Speaker**  
Dr. James Hildreth, Director, Center for AIDS Health Disparities  
Research; Professor, Department of Internal Medicine, Meharry Medical College, Nashville, TN |

**Tuesday, March 15, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 8:00 a.m. - 1:30 p.m. | **Symposium Registration** – Program booklets available  
Research and Sponsored Programs Bldg, First Floor Lobby |

**ORAL PRESENTATIONS**  
Research and Sponsored Programs Building, Room 163

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>8:30 a.m. - 10:45 a.m.</td>
<td><strong>GRADUATE ENGINEERING II</strong></td>
</tr>
<tr>
<td>11:30 a.m. - 2:15 p.m.</td>
<td><strong>GRADUATE SCIENCE I</strong></td>
</tr>
<tr>
<td>2:15 p.m. - 4:15 p.m.</td>
<td><strong>UNDERGRADUATE ENGINEERING II</strong></td>
</tr>
</tbody>
</table>

JUDGING for Undergraduate Posters– Jane Elliott Hall Auditorium  
9:30 a.m. - 11:30 a.m. and 1:30 p.m. - 3:30 p.m.

**Psychology Day** • 1:00 p.m. - 6:00 p.m. James E. Farrell – Fred E. Westbrook Building, 118

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00 p.m. - 5:00 p.m.</td>
<td><strong>Workshop &amp; Panel Discussion: “Contemporary and Professional Issues in Psychology”</strong></td>
</tr>
</tbody>
</table>

**Wednesday, March 16, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 8:00 a.m. - 4:00 p.m. | **Symposium Registration** – Program booklets available  
Research and Sponsored Programs Bldg, First Floor Lobby |

**8:00 a.m. - 4:30 p.m.**  
**Spring Break Academy**  
*High school junior and senior students visit campus for “The Life of a TSU Student”.*

**ORAL PRESENTATIONS**  
Research and Sponsored Programs Building, Room 163

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>8:30 a.m. - 11:30 a.m.</td>
<td><strong>GRADUATE SCIENCE II</strong></td>
</tr>
<tr>
<td>1:30 p.m. - 3:30 p.m.</td>
<td><strong>UNDERGRADUATE SCIENCE</strong></td>
</tr>
</tbody>
</table>

JUDGING for Graduate Posters– Jane Elliott Hall Auditorium  
9:30 a.m. - 11:30 a.m. and 1:30 p.m. - 3:30 p.m.

**College of Engineering Day** • 9:00 a.m. - 4:30 p.m. James E. Farrell – Fred E. Westbrook Building, 118

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 a.m. - 12:00 noon</td>
<td><strong>Critical Thinking Workshops</strong></td>
</tr>
</tbody>
</table>
| 12:00 noon - 1:00 p.m. | **Luncheon – Speaker**  
Dr. James Stover, Tennessee Technology Development Corporation |
## Overview of Events

**WEDNESDAY, MARCH 16, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 p.m. – 4:30 p.m.</td>
<td>Critical Thinking Workshops</td>
</tr>
<tr>
<td>College of Health Sciences Day • 9:00 a.m. - 2:00 p.m.</td>
<td>Clement Hall, 165</td>
</tr>
<tr>
<td>12:00 noon – 1:00 p.m.</td>
<td>Luncheon – Speaker Dr. Mohamed Kanu, Assistant Professor, Department of Health Administration and Health Sciences, Tennessee State University</td>
</tr>
</tbody>
</table>

**THURSDAY, MARCH 17, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m. - 4:00 p.m.</td>
<td>Symposium Registration – Program booklets available</td>
</tr>
<tr>
<td>8:00 a.m. - 4:30 p.m.</td>
<td>Spring Break Academy</td>
</tr>
<tr>
<td>JUDGING for Graduate Posters– Jane Elliott Hall Auditorium</td>
<td>9:30 a.m. – 11:30 a.m. and 1:30 p.m. – 3:30 p.m.</td>
</tr>
<tr>
<td>Center of Academic Excellence in Intelligence Studies Day • 9:00 a.m.- 4:30 p.m.</td>
<td>James E. Farrell – Fred E. Westbrook Building, 118</td>
</tr>
<tr>
<td>9:00 a.m. – 12:00 noon</td>
<td>Critical Thinking Workshops</td>
</tr>
<tr>
<td>12:00 noon – 1:00 p.m.</td>
<td>Luncheon – Speaker Darren Taylor, Central Intelligence Agency (CIA) Officer in Residence, Tennessee State University</td>
</tr>
<tr>
<td>1:00 p.m. – 4:30 p.m.</td>
<td>Critical Thinking Workshops</td>
</tr>
<tr>
<td>Association of Pre-Professional Life Scientists (APLS) Day • 10:00 a.m.- 5:30 p.m.</td>
<td>Research and Sponsored Programs Building</td>
</tr>
<tr>
<td>10:00 a.m. – 12:00 noon</td>
<td>Room 107, APLS Professional Development Workshop Series</td>
</tr>
<tr>
<td>12:00 noon – 2:00 p.m.</td>
<td>Room 209, High School Oral Presentations Competition</td>
</tr>
<tr>
<td>1:15 p.m. – 2:45 p.m.</td>
<td>Nanoscience and Biotechnology CORE Facility; Forensic Genetics Workshop - Crime Scene Investigation</td>
</tr>
<tr>
<td>3:00 p.m. – 4:30 p.m.</td>
<td>Room 163, Life Science Challenge and Competition; Awards Ceremony</td>
</tr>
<tr>
<td>4:30 p.m. – 5:30 p.m.</td>
<td>APLS General Assembly</td>
</tr>
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**FRIDAY, MARCH 18, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>Symposium Registration – Program booklets available</td>
</tr>
<tr>
<td>ORAL PRESENTATIONS</td>
<td>Research and Sponsored Programs Building, Room 163</td>
</tr>
<tr>
<td>10:00 a.m. – 11:00 a.m.</td>
<td>FACULTY</td>
</tr>
<tr>
<td>Biological Sciences Day • Holland Hall 102</td>
<td>Speaker - Dr. Aramandla Ramesh, Associate Professor Department of Biochemistry and Cancer Biology, Meharry Medical College</td>
</tr>
<tr>
<td>11:30 a.m. – 12:30 p.m.</td>
<td>Students Awards Ceremony – James E. Farrell – Fred E. Westbrook Building, 118</td>
</tr>
<tr>
<td>12:30 p.m. – 2:00 p.m.</td>
<td>Welcome, Luncheon, and The Message from the President VP, RSP Presentation of Awards Acknowledgements, Closing, and Adjournment</td>
</tr>
</tbody>
</table>
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 Scheick, 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.


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, Nanette 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. In 2009, as a part of TSU’s grand recruitment campaign for students, the Division of Research and Sponsored Programs, under the leadership of Dr. Maria Thompson introduced unit research days for various disciplines and programs; and in 2010, she initiated the Spring Break Academy for high school students. 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).
# The Spring Break Academy

The Life of a Tennessee State University (TSU) College Student

Outreach Program for Local High School Students

## Agenda  March 16-17, 2011

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<tr>
<th>TIME</th>
<th>Wednesday March 16, 2011</th>
<th>Thursday March 17, 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 A.M. - 9:00 A.M.</td>
<td>Welcome Check-in</td>
<td>Welcome Check-in</td>
</tr>
<tr>
<td>Research &amp; Sponsored Programs Building Room 209</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00 - 10:30</td>
<td>What Kind of America Do We Have? (TSU Careers Department) RSP Room 209</td>
<td>Financial Aid &amp; Entrance Requirement/ How to fill out an application RSP Room 209</td>
</tr>
<tr>
<td>10:45 - 12:00 NOON</td>
<td>TSU History/College Life- “TSU... The University I Selected” and Academics (Student Panel) RSP Room 209</td>
<td>College Life - Extra-curricular Activities - Scholarly Life Balance (Student Panel) RSP Room 209</td>
</tr>
<tr>
<td>12:00 NOON - 1:00 P.M.</td>
<td>Lunch at the Floyd-Payne Student Center/Accountability Check</td>
<td>Lunch at the Floyd-Payne Student Center/ Accountability Check</td>
</tr>
<tr>
<td>1:15 - 2:00</td>
<td>Tour of College of AG-Biotech &amp; Bio-Energy Research Labs Farrell-Westbrook Room 208</td>
<td>CSI-Crime Scene Investigation “Hands-On” Science Experiments with Lab Tour RSP 209 Ends at 2:45PM</td>
</tr>
<tr>
<td>2:15 - 3:00</td>
<td>College of Engineering “Hands-On” Student Activities-Visit to the Robotics Lab Holland Hall Room 323</td>
<td>Starts at 3:00 PM APLS Life Science Challenge/Game RSP Room 163</td>
</tr>
<tr>
<td>3:15 - 4:00</td>
<td>Support Programs for College Level Academics RSP Room 209 TLSAMP HBCU-UP</td>
<td>APLS Life Science Challenge/Game RSP Room 163</td>
</tr>
<tr>
<td>4:00 - 4:30</td>
<td>Connections &amp; Look to Tomorrow &amp; Accountability RSP Room 209</td>
<td>APLS Life Science Challenge/Game RSP Room 163</td>
</tr>
</tbody>
</table>
Oral Presentations

Monday, March 14, 2011

GRADUATE ENGINEERING I STUDENTS

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

8:30  GE1  ROBUST STABILITY AND STABILIZATION OF DISCRETE-TIME NON-LINEAR STOCHASTIC SYSTEMS
Strong, Andre*, Knap, Michael, and Sathanathan, Sivanragasm; Advisor, Dr. Sivanragasm Sathanathan.
Center of Excellence and Information Systems

8:45  GE2  ROBUST PASSIVITY AND SYNTHESIS OF DISCRETE-TIME STOCHASTIC SYSTEMS WITH NOISE
DEPENDENT STATES AND INPUTS UNDER MARKOVIAN SWITCHING
Lyatu, Isaac*, Knap, Michael, Sathanathan, Sivanragasm* and Keel, Lee; Advisor, Dr. Sivanragasm Sathanathan.
Center of Excellence and Information Systems

9:00  GE3  ROBUST STABILITY AND STABILIZATION OF A CLASS OF NON-LINEAR STOCHASTIC SYSTEMS WITH STATE AND
CONTROLLER DEPENDENT NOISE
Knap, Michael*, Sathanathan, Sivanragasm and Keel, Lee; Advisor, Dr. Sivanragasm Sathanathan.
Center of Excellence in Information Systems

9:15  GE4  SUPERVISED LEARNING ALGORITHM FOR PROTEOMIC IDENTIFICATION
Biswal, Biswajit* and Shetty, Sachin; Advisor, Dr. Sachin Shetty. College of Engineering, Technology and Computer
Sciences-Computer Information Systems Engineering

9:30  GE5  DESIGN OF SVM AND PID CONTROLLERS IN INTRUSION DETECTION
Mukkavilli, SaiKiran* and Shetty, Sachin; Advisor, Dr. Sachin Shetty. College of Engineering, Technology and Computer
Sciences-Computer Information Systems Engineering

9:45  GE6  ENVIRONMENTAL IMPACTS OF A 100-YEAR FLOOD ON GROUNDWATER AND SURFACE WATER IN
NASHVILLE, TN
Roland, Victor*, Armstrong, Patrice*, Byl, Tom; Advisor, Dr. Thomas Byl. Department of Civil and Environmental Engineering

10:00  GE7  BIOMASS PRODUCTIVITY POTENTIAL BY SELECTED CELLULOSIC HERBACEOUS PERENNIALS IN ACID
IMPACTED SOIL
Murugesan, Vallabhan*, Dzantor, Kudjo, Hui, Dafeng, Painter, Roger; Advisor, Dr. Roger Painter. Department of Civil and
Environmental Engineering

10:15  GE8  OPERATIONAL, SAFETY AND DESIGN EVALUATION OF UNIVERSITY CAMPUS PARKING SYSTEM
Boykin, Jr., Andre** and Chimba, Deo; Advisor, Dr. Deo Chimba. Department of Civil and Environmental Engineering

10:30  GE9  DEVELOPMENT OF OPTIMAL DEFENSE AGAINST JAMMING ATTACKS IN COGNITIVE RADIO NETWORKS
Thanu, Meena* and Shetty, Sachin*; Advisor, Dr. Sachin Shetty. Department of Electrical and Computer Engineering

10:45  GE10  PHYSICAL LAYER KEY GENERATION IN MIMO NETWORKS USING CHANNEL ESTIMATION
Thanu, Meena* and Shetty, Sachin*; Advisor, Dr. Sachin Shetty. Department of Electrical and Computer Engineering

UNDERGRADUATE ENGINEERING I STUDENTS

11:00  UE1  COMPARING THE TANKS-IN-SERIES AND CONTINUOUS-STIRRED FLOW REACTOR MODELS TO
PREDICT CONTAMINANT REMOVAL IN A WETLAND
Cobb, Carlton*, Johnson, Jameka, Byl, Tom and Sharpe, Lonnie; Advisor, Dr. Tom Byl. Department of Civil and Environmental Engineering

11:15  UE2  POTENTIAL FOR BIO-REMEDIATION OF A CRUDE OIL SPILL ON CLEAR CREEK, OBED WILD AND SCENIC
RIVER NATIONAL PARK
Brooks, Jaala*, Spear, Loreal, Williams, Aaron, Bradley, Mike, Byl, Tom; Advisor, Dr. Tom Byl. Department of Civil and Environmental Engineering

11:30  UE3  OUTDOOR ROBOTIC SECURITY SYSTEM
Brook, Kyle*, Hailey, Justin, Douglas, Carleton and Sekmen, Ali; Advisor, Dr. Ali Sekmen. Department Computer Science

11:45  UE4  MOBILE INDOOR SECURITY SYSTEM
Cannon, Irvin* and Sekmen, Ali; Advisor, Dr. Ali Sekmen. Department of Computer Science

12:00  UE5  DEVELOPMENT OF AN INVISIBLE FENCE FOR INTRUDER DETECTION
Hockett, Harold* and Sekmen, Ali; Advisor, Dr. Ali Sekmen. Department of Computer Science

12:15  UE6  COOPERATIVE RELAY ON COGNITIVE RADIO NETWORKS
Kameron, Moore*, Justin, Brooks and Chen, Wei; Advisor, Dr. Wei Chen. Department of Electrical and Computer Engineering

12:30  UE7  FEATURE EXTRACTION AND CLASSIFIER DESIGN FOR AIRCRAFT STRUCTURAL HEALTH MONITORING
Marshall, Djuna*, Bodruzzaman, Mohammad and Zein-Sabatto, Mohamed; Advisor, Dr. Mohammad Bodruzzaman. Department of Electrical and Computer Engineering

All abstracts can be found at www.tnstate.edu/research

*Denotes Presenter
12:45  UE8  DESIGN OF POWER EFFICIENT WIRELESS BODY SENSOR NETWORK
Moore, Paul*; Coleman, Ashia and Shetty, Sachin; Advisor, Dr. Sachin Shetty. Department of Electrical and Computer Engineering

1:00  UE9  DESIGN OF FEATURE DECISION FUSION SYSTEM FOR AIRCRAFT STRUCTURAL HEALTH MONITORING
Cox, LaTasha* and Zein-Sabatto, M. Saleh; Advisor, Dr. Dr. M. Saleh Zein-Sabatto. Department of Electrical and Computer Engineering

1:15  UE10  ANOMALY-BASED INTRUSION DETECTION SYSTEM
Wilson, Corie*, Gray, Grantland and Beane, Carlos; Advisor, Dr. Carlos Beane. Department of Electrical Engineering

**Oral Presentations**
**Tuesday, March 15, 2011**

**GRADUATE ENGINEERING II STUDENTS**
All Presentations will be in the Research and Sponsored Programs Building Room 163

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
<th>Advisor(s)</th>
<th>Department(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30</td>
<td>GE11</td>
<td>DEVELOPMENT OF COMPUTER AIDED DESIGN TECHNIQUE FOR SEAT COMFORT ANALYSIS</td>
<td>Sead, Amer* and Onyebueke, Landon; Advisor, Dr. Landon Onyebueke.</td>
<td>Department of Mechanical and Manufacturing Engineering</td>
<td></td>
</tr>
<tr>
<td>8:45</td>
<td>GE12</td>
<td>ADVANCED SIGNAL PROCESSING AND DECISION FUSION FOR AIRCRAFT STRUCTURE HEALTH MONITORING</td>
<td>Mikhail, Madded* and Zein-Sabatto, Salah; Advisor, Dr. Salah Zein-Sabatto.</td>
<td>Department of Electrical Engineering</td>
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<td>Moma, Kasonga*, and Mohamed, Zein-Sabatto; Advisor, Dr. Zein-Sabatto Mohamed.</td>
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<td>McNeal, McKenzie* and Chen, Wei; Advisor, Dr. Wei Chen.</td>
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<td>Ojetola, Akindeji*, and Onyebueke, Landon; Advisor, Dr. Landon Onyebueke.</td>
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**GRADUATE SCIENCE I STUDENTS AGRICULTURAL AND CONSUMER SCIENCE**

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*Denotes Presenter  
All abstracts can be found at www.tnstate.edu/research
1:00 GS7 NEURONAL EXPRESSION OF THE GLUCOSE-DEPENDENT INSULINOTROPIC POLYPEPTIDE GENE IN AVIANS IS REVEALED BY BIOINFORMATICS ANALYSES
Tyus, James* and Nahashon, Samuel; Advisor, Dr. Samuel Nahashon. School of Agriculture and Consumer Sciences

1:15 GS8 FACTORS INFLUENCING TENNESSEE LANDOWNERS ATTITUDES AND WILLINGNESS TO ENTER THE VOLUNTARY CARBON MARKET
Allen, Derek* and Singh, Surendra. Advisor, Dr. Surendra Singh. School of Agriculture and Consumer Sciences Agribusiness

1:30 GS9 DEVELOPMENT OF RECOMBINANT ANTIBODIES FOR RAPID DETECTION OF SALMONELLA TYPHIMURIUM
Darris, Carl*, Nahashon, Samuel and Chen, Fur-Chi; Advisor, Dr. Samuel Nahashon. Department of Biological Sciences and School of Agriculture and Consumer Sciences

2:00 GS10 STRUCTURAL CHANGES IN U.S. AGRICULTURE AND SMALL FARMS
Golkonda, Ravindra Bangari* and Singh, Surendra; Advisor, Dr. Surendra Singh. School of Agriculture and Consumer Sciences

UNDERGRADUATE ENGINEERING II STUDENTS

2:15 UE11 DEVELOPMENT OF A VIRTUAL REALITY MODEL FOR THE ECP INDUSTRIAL EMMULATOR
Phillips, Terrell* and Keel, L.H.; Advisor, Dr. L. H. Keel. Department of Electrical Engineering

2:30 UE12 DESIGN OF A VIRTUAL REALITY GAME FOR CIRCUIT ANALYSIS
Keobounhoum, Chanthavone*, and Shetty, Sachin; Advisor, Dr. Sachin Shetty. Dept. of Electrical Engineering

2:45 UE13 DESIGN OF AUGMENTED REALITY SYSTEM FOR VIRTUAL ASSEMBLY
Starling, Stephanie* and Shetty, Sachin; Advisor, Dr. Sachin Shetty. Department of Electrical Engineering

3:00 UE14 SEAT MATERIALS AND PROPERTIES THAT PROMOTE COMFORT
Agirm, Paschal*, Iweorah, Charity and Onyebueke, Landon; Advisor, Dr. Landon Onyebueke. Dept of Mechanical Engineering

3:15 UE15 EMBEDDED DESIGN AND PROGRAMMING OF HANDHELD LCD VIDEO GAMES
Nelson, Dwight* and Shetty, Sachin; Advisor, Dr. Sachin Shetty. College of Engineering, Technology, and Computer Science

3:30 UE16 DEVELOPMENT OF DATA MINING SYSTEM FOR NETWORK INTRUSION DETECTION
Smith, Shandoyn* and Shetty, Sachin; Advisor, Dr. Sachin Shetty. College of Engineering, Technology, & Computer Science

3:45 UE17 AN EXPERIMENTAL VALIDATION OF DATA-BASED PID CONTROLLER DESIGN FOR LINEAR TIME-ININVARIANT SYSTEMS
Stratton, Timothy* and Keel, L.H; Advisor, Dr. L.H. Keel. Department of Mechanical and Manufacturing Engineering

4:00 UE18 THE FUNDAMENTAL FACTORS OF COMFORT AND THEIR AFFECT ON NEW SEAT DESIGN
Staples, Chistin*, Onyebueke, Nancy and Onyebueke, Landon; Advisor, Dr. Landon Onyebueke. Department of Mechanical Engineering

Oral Presentations

Wednesday, March 16, 2011

GRADUATE SCIENCE II STUDENTS

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

8:30 GS11 PLANTAR FASCIITIS AND MEDIAL TIBIAL STRESS SYNDROME: TO SHOD OR NOT TO SHOD
Dean, Thomas*, Kachelman, Joseph, Philipp, Nathan, Winters, Charity and Bukoskey, Thomas; Advisor, Dr. Thomas Bukoskey. Department of Physical Therapy

8:45 GS12 ADOLESCENT IDIOPATHIC SCOLIOSIS: THE Efficacy OF EXERCISE FOR MINOR CURVATURE
Letson, Bryan*, Miller, Zachary, Player, Dominique, Workman, Tyler and Housel, Natalie; Advisor, Dr. Natalie Housel. Department of Physical Therapy

9:00 GS13 DOES RESISTIVE CYCLING INCREASE THE RATE OF BONE HEALING IN A COMPLETE TRANSVERSE FEMORAL FRACTURE?
Petersen, Mitchell*, Sundstrom, Ashley, Thompson, Akella, Trail, Lauren, Wheeler, Jason, Raynes, and Raynes, Edilberto; Advisor, Dr. Edilberto Raynes. Department of Physical Therapy

9:15 GS14 THE Efficacy OF PATELLAR TAPING ON PAIN AND GAIT KINEMATICS IN RUNNERS WITH PATELLOFEMORAL PAIN
Elliott, Daniel*, Bedwell, Adam, Nichols, Joe, Rhodes, Mark and Pitt, Rosalyn; Advisor, Dr. Rosalyn Pitt. Department of Physical Therapy

9:30 GS15 BAREFOOT VERSUS SHOD RUNNING: AN EVIDENCE BASED APPROACH TO PATELLOFEMORAL PAIN AND OSTEOARTHRITIS ASSOCIATED WITH DIFFERENT RUNNING STYLES
Morris, Marjorie*, Jones, Jeremy*, McCurry, Alex, Morris, Marjorie, Norfleet, Anna and Bukoskey, Thomas; Advisor, Dr. Thomas Bukoskey. Department of Physical Therapy
Oral Presentations

Friday, March 18, 2011

FACULTY - STAFF

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

10:00 F1 ETHIC AND DIFFERENCES IN FOOD SAFETY TRAINING INTEREST
Ekanem, Enefiok*, Mafuyai-Ekanem, Mary, Tegegne, Fisseha, Singh, Surendra and Thompson, Cindy. School of Agriculture and Consumer Science

*Denotes Presenter All abstracts can be found at www.tnstate.edu/research
REMARKABLE DEVELOPMENTS OF PD-CATALYZED CROSS-COUPLING REACTIONS FOR C-C AND C-N BOND FORMATION REACTIONS
Al-Masum, Mohammad* - Department of Chemistry

SPATIAL DISTRIBUTION OF CALCIUM-GATED CHLORIDE CHANNELS IN OLFACTORY CILIA
Badamdorj, Dorjsuren*, French, Donald and Kleene, Steven - Department of Mathematics and Physics

FUNCTIONAL GENOMICS OF PECTOBACTERIUM SPECIES, THE BACTERIAL SOFT ROT PATHOGENS
Dumenyo, C. Korsi*, Kersey, Caleb, Agyemang, Paul and Hageman, Bryan - School of Agriculture and Consumer Sciences
## Poster Presentations

**Wednesday & Thursday, March 16-17, 9:00 – 4:30**

**GRADUATE STUDENTS**

Poster Presentations will be in the Jane Elliott Hall, Auditorium

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<td>Bartone, Anne* and Hammond, Marie; Advisor, Dr. Marie Hammond.</td>
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<td>Department of Civil and Environmental Engineering</td>
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<td>Muldowney, Kerry, Moore, Candice, Boyd, Rachel and Lehman, David;</td>
<td>Department of Physical Therapy</td>
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<tr>
<td>MACHADO-JOSEPH DISEASE</td>
<td>Advisor, Dr. David Lehman.</td>
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<tr>
<td>P36 SUPERVISION WITHIN COUNSELING PSYCHOLOGY</td>
<td>Novotny, Meggan and Hull, Pamela; Advisor, Dr. Pamela Hull.</td>
<td>Center for Health Research</td>
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*Denotes Presenter  All abstracts can be found at www.tnstate.edu/research
### Poster Presentations

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<td><strong>Exploring the Understanding of the OT Profession Among Undergraduate Students Enrolled in Four Year Institutions</strong></td>
<td>Patterson, Carrie*, Parks, Alkebu, Bell, Britani and Bradshaw, Michelle; Advisor, Dr. Michelle Bradshaw.</td>
<td>Department of Occupational Therapy</td>
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<tr>
<td>P38</td>
<td><strong>Forgiveness and Self-Awareness in Men Whose Significant Other Commits an Act of Infidelity</strong></td>
<td>Rackey, Joshua* and Hammond, Marie; Advisor, Dr. Marie Hammond.</td>
<td>Department of Psychology</td>
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<tr>
<td>P39</td>
<td><strong>DIBUTYLtin Exposure Decreases Protein Kinase D Activity in Human Natural Killer Cells</strong></td>
<td>Rana, Krupa* and Whalen, Margaret; Advisor, Dr. Margaret Whalen.</td>
<td>Department of Biological Sciences</td>
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<tr>
<td>P40</td>
<td><strong>Effects of DIBUTYLtin on Protein Kinase D Activity in Human Natural Killer Cells</strong></td>
<td>Rana, Krupa* and Whalen, Margaret; Advisor, Dr. Margaret Whalen.</td>
<td>Department of Biological Sciences</td>
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<td>P41</td>
<td><strong>Cross-Sectional Analysis of Nanoparticle Pattern Arrays</strong></td>
<td>Reynolds, Jonathan*, Hargrove, Dr. Samuel and Parker, Adrian; Advisor, Dr. Samuel Hargrove.</td>
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<td>P42</td>
<td><strong>Promotion of Balance in Children Through a Wii Balance Board Intervention: A Pilot Study</strong></td>
<td>Roach, Holly Beth*, Spivey, Jessica, Seaman, Kaitlyn and Snyder, Larry; Advisor, Dr. Larry Snyder.</td>
<td>Department of Occupational Therapy</td>
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<td>P43</td>
<td><strong>Are Non HealthCare Students More at Risk of Becoming Obese Than Allied HealthCare Students: A Pilot Study</strong></td>
<td>Ryan, Blake* and Snyder, Larry; Advisor, Dr. Larry Snyder.</td>
<td>Department of Occupational Therapy</td>
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<td>P44</td>
<td><strong>Assessing Threats to Mussel Diversity Within the Duck River Watershed</strong></td>
<td>Skelton, Tyler* and Harrison, Robert; Advisor, Dr. Robert Harrison.</td>
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<td>P45</td>
<td><strong>Evidence-Based Practice: A Study of Middle Tennessee Occupational Therapists</strong></td>
<td>Southall, Ashley*, Kato, Cara and Snyder, Larry; Advisor, Dr. Larry Snyder.</td>
<td>Department of Occupational Therapy</td>
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<td>P46</td>
<td><strong>Characterization of Strains of Erwinia Tracheiphila, the Pathogen That Causes Bacterial Wilt of Cucurbits</strong></td>
<td>Taylor, Sean*, Kersey, Caleb and Dumenyo, C. Korso; Advisor, Dr. C. Korsi Dumenyo.</td>
<td>School of Agriculture and Consumer Sciences</td>
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<td>P47</td>
<td><strong>Growth Characteristics and Phylogenetic Studies of Chromobacterium Violaeeum Strains Isolated from the Tennessee Copper Basin</strong></td>
<td>Trabue, Sydnee*, Ejiofor, Anthony and Johnson, Terrance; Advisor, Dr. Terrance Johnson.</td>
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<td>P48</td>
<td><strong>Comparative Genomics: Hypothalamic Expression of Transthyretin in Guinea Fowl</strong></td>
<td>Tyus, James*, Bonner, Niesha and Nahashon, Samuel; Advisor, Dr. Samuel Nahashon.</td>
<td>School of Agriculture and Consumer Sciences</td>
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<td>P49</td>
<td><strong>The Study of Aggression in Collegiate and Non-Collegiate African-American Males</strong></td>
<td>Vernon, Nichole* and Hammond, Marie; Advisor, Dr. Marie Hammond.</td>
<td>Department of Psychology</td>
<td></td>
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<tr>
<td>P50</td>
<td><strong>Stroke Treatment Interventions</strong></td>
<td>Ward, Kathryn*, Siren, Emily, Eklund, Julie and Snyder, Larry; Advisor, Dr. Larry Snyder.</td>
<td>Department of Occupational Therapy</td>
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<tr>
<td>P51</td>
<td><strong>Watersheds and Water Quality in Davidson County</strong></td>
<td>Reece, Michelle*. Advisor, Dr. Owen Johnson.</td>
<td>Department of Public Health</td>
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<td>P52</td>
<td><strong>Creating Public Health Leaders in the WiFi Generation</strong></td>
<td>Paul, Michael* and Massey, Krystal. Advisor, Dr. Owen Johnson.</td>
<td>Department of Public Health</td>
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<td>P53</td>
<td><strong>Effectiveness of Interactive Gaming Versus Traditional Rehabilitation Methods in Balance Training Post Stroke</strong></td>
<td>Jordan, Kathryn*, Ashley, Bailey, Frick, Astin, and Turner, Terah; Advisor, Dr. Deborah Edmondson.</td>
<td>Department of Physical Therapy</td>
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<td>P54</td>
<td><strong>Spatial Model of Severity Risk of Southern Middle Tennessee Nurseries for Phytophtthora Species</strong></td>
<td>Kilbourne, Katherine*; Advisor, Dr. Robert Harrison.</td>
<td>School of Agriculture and Consumer Sciences</td>
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<td>P55</td>
<td><strong>Potassium- A Potential Buffer Against Climate Change</strong></td>
<td>Lewis, Stephen*, and Kennedy, Steven; Advisor, Dr. Dharmalingam Pitchay.</td>
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<td>P56</td>
<td><strong>Does the Response of Blueberry Development and Growth Depend on Rizosphere Ph and Substrate</strong></td>
<td>Kennedy, Steven*; Advisor, Dr. Dharmalingam Pitchay.</td>
<td>School of Agriculture and Consumer Sciences</td>
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<td>F1</td>
<td>EFFECT OF AGRICULTURE AND OTHER LAND USE ACTIVITIES ON THE COLLINS RIVER SUB-WATERSHED IN TENNESSEE</td>
<td>Akuley-Amenyenu, Anonya* and Dennis, Sam. School of Agriculture and Consumer Sciences</td>
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<td>F2</td>
<td>FOOD SAFETY TRAINING: FOCUS GROUP FINDINGS IN THE MISSISSIPPI DELTA</td>
<td>Ekanem, Enefiok*, Adamu, Usman, Tegegne, Fisseha and Mafuyai-Ekanem, Mary. School of Agriculture and Consumer Sciences</td>
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<td>MEAT GOAT MARKETING OPPORTUNITIES IN TENNESSEE</td>
<td>Ekanem, Enefiok*, Singh, Surendra, Tegegne, Fisseha, Browning, Richard, Thompson, Cindy and Mafuyai-Ekanem, Mary. School of Agricultural and Consumer Sciences</td>
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<td>F4</td>
<td>A COMPARATIVE STUDY OF VEGETATION PHENOLOGY USING MODIS AND AMERIFLUX DATA</td>
<td>Hui, Dafeng*, Chandola, Varun, Wilson, Corie, Gu, Lianhong and Vatsavai, Ranga Raju. Department of Biological Sciences</td>
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<td>OCCURRENCE OF ANTIMICROBIAL RESISTANT E. COLI ISOLATED FROM SOIL AND ANIMAL MANURE</td>
<td>Kilonzo-Nthenge, Agnes*, Rotich, Emily, Chen, Fur-Chi and Godwin, Sandria. School of Agriculture and Consumer Sciences</td>
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<td>F6</td>
<td>BIOLOGICAL CONTROL AGENTS AND HOST RESISTANCE CAN SUBSTANTIALLY REDUCE FUNGICIDE USAGE IN DOGWOOD POWDERY MILDEW CONTROL</td>
<td>Mackasmiel, Lucas* and Mmbaga, Margaret; School of Agriculture and Consumer Science</td>
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<td>F7</td>
<td>EFFECTS APD AND PHONOLOGICAL PROCESSING ON COGNITIVE EFFORT</td>
<td>Matlock, Valeria* and Fitzgeral, Mary. Department of Speech Pathology and Audiology</td>
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<td>F8</td>
<td>STAKEHOLDER GROUPS’ PERCEPTION S OF BRIDGES COMMUNITY SERVICES</td>
<td>Matlock, Valeria*, Fitzgerald, Mary Dale, Saliba, Jennifer and Tharpe, Tanesha. Department of Speech Pathology and Audiology</td>
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<td>F9</td>
<td>CHANGES IN METABOLIC PROFILES ASSOCIATED WITH FURAZOLIDONE-INDUCED CARDIOMYOPATHY IN GUINEA FOWL</td>
<td>Nahashon, Samuel* and Hill, Kellee. School of Agriculture and Consumer Sciences</td>
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<td>F10</td>
<td>MORTALITY OF IMPORTED FIRE ANTS TO BIOPESTICIDE-TREATED SOIL IN LABORATORY BIOASSAYS</td>
<td>Ochieng, Samuel*, Barlow, Abigail and Mrema, Frank. School of Agriculture and Consumer Sciences</td>
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<td>F11</td>
<td>TECHNIQUES TO MEASURE AMBROSIA BEETLE SEASONAL INCIDENCE AND DIURNAL FLIGHT TIMING AROUND NURSERIES</td>
<td>Oliver, Jason*, Eschenbacher, Victoria and Youssef, Nadeer. School of Agriculture and Consumer Science</td>
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<tr>
<td>F12</td>
<td>DIFFERENT ASPECTS OF INTERNET ADOPTION BY RETAILERS: COMPARISON OF HIGH AND LOW PERFORMED E-RETAILERS</td>
<td>Seo, Jung-Im*. School of Agriculture and Consumer Sciences</td>
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<td>F13</td>
<td>DO TSU STUDENTS ENROLLED IN THE HARD SCIENCES HAVE MORE FAVORABLE ATTITUDES TOWARDS BIOTECHNOLOGY THAN THOSE IN THE SOCIAL SCIENCE DISCIPLINE?</td>
<td>Tegegne, Fisseha*, Aziz, Ahmad and Wiemers, Roger. School of Agriculture and Consumer Sciences and the College of Education</td>
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<tr>
<td>F14</td>
<td>HISTOCHEMICAL DIAGNOSIS INVOLVING NORMAL AND ABNORMAL BETA CELL PRODUCTION IN THE PANCREAS</td>
<td>Wofford Harlston, Lois*. Department of Biological Sciences</td>
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<td>F15</td>
<td>REVERSING DIABETES, AN ANALYTICAL MODEL INVOLVING TREATMENT, DIET AND MANAGEMENT</td>
<td>Wofford Harlston, Lois*. Department of Biological Sciences</td>
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<tr>
<td>F16</td>
<td>EVALUATION OF MANUKA AND PHOEBE OIL BAITED PURPLE STICKY TRAPS FOR THE CAPTURE OF BUPRESTIDS AND CERAMBYCIDS (COLEOPTERA) IN MIDDLE TENNESSEE</td>
<td>Youssef, Nadeer*, Oliver, Jason and Basham, Joshua. School of Agriculture and Consumer Science</td>
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<td>F17</td>
<td>CONSUMER CONFIDENCE IN FOOD RELATED PRACTICES: IS IT A VALID MEASURE OF FOOD SAFETY?</td>
<td>Godwin, Sandria*, Stone, R., Chen, F., and Kilonzo-Nthenge, A. Department of Family and Consumer Sciences, School of Agriculture and Consumer Sciences</td>
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*Denotes Presenter

All abstracts can be found at www.tnstate.edu/research
Vanessa Jones-Briscoe, Ph.D., is a Research Assistant Professor of Medicine at Vanderbilt University Medical Center. Her past accomplishments in clinical research have been in the areas of metabolic syndrome, hypoglycemia and exercise. With regards to hypoglycemia, her research efforts demonstrated drug mechanisms that amplify key counter-regulatory responses to hypoglycemia in both normal subjects and patients with type 1 diabetes. Her current research focus involves community based participatory research. Through the Division of Cardiovascular Medicine, her current research activities address cardiovascular health disparities in minority and underserved populations. Also, Dr. Briscoe is an adjunct professor at Tennessee State University in the School of Nursing. This long association has allowed her to continue her passion of contributing to the education and mentoring of future nurse leaders.

Monday, March 14, 2011

Schedule of Events

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

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<td>8:30 am</td>
<td>Occasion by Dr. Carol Bompart, Chairperson</td>
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<td>8:45 am</td>
<td>Welcome by Dr. Kathy L. Martin – School of Nursing</td>
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<tr>
<td>9:00 am - 9:30 am</td>
<td>MSN and BSN Poster Presentations</td>
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<tr>
<td>9:35 am - 11:15 am</td>
<td>Concurrent Sessions</td>
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<td>11:15 am - 11:35 am</td>
<td>Presentation by Sponsors</td>
</tr>
<tr>
<td>11:40 am - 12:15</td>
<td>Luncheon</td>
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<tr>
<td>12:20 pm - 1:00 pm</td>
<td>Address</td>
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Speaker - Dr. Vanessa Jones-Briscoe, Assistant Professor of Medicine, Vanderbilt University Medical Center
# Psychology Day

**CONTEMPORARY AND PROFESSIONAL ISSUES IN PSYCHOLOGY**

**Tuesday, March 15, 2011**

**Schedule of Events**

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

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<tr>
<th>Time</th>
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</table>
| 1:00 p.m. – 2:00 p.m. | **Workshop & Panel Discussion:**  
“Contemporary and Professional Issues in Psychology”  
Dr. Stacie Putman-Yoquelet, Associate Professor, Department of Psychology, TSU  
Dr. Robin Otis-Ballew, Associate Professor, Department of Psychology, TSU  
Dr. Guler Boyraz, Assistant Professor, Department of Psychology, TSU |
| 2:00 p.m. – 4:00 p.m. | **Poster presentations**                                             |
| 4:00 p.m. – 5:00 p.m. | **Workshop & Panel Discussion:**  
“Contemporary and Professional Issues in Psychology”  
Dr. Stacie Putman-Yoquelet, Associate Professor, Department of Psychology, TSU  
Dr. Robin Otis-Ballew, Associate Professor, Department of Psychology, TSU  
Dr. Guler Boyraz, Assistant Professor, Department of Psychology, TSU |
| 5:00 p.m. – 6:00 p.m. | **Awards**                                                           |
James Stover, Ph.D., is Vice President of Operations for TTDC and responsible for developing, overseeing and managing all aspects of operations and strategic programming activities including the Technology Maturation Fund, Rural Seed Fund, and SBIR/STTR Phase 0/00 Program. Prior to joining TTDC, James was a life science and technology analyst with Square 1 Bank in San Diego, CA, and a senior research fellow in medicinal chemistry at the Scripps Research Institute. He has consulted with a number of early-stage companies in the areas of capital formation and management recruitment. He is a member of the Southeast Venture Group, serves on the public policy committee for the National Association of Seed and Venture Funds, and is a Board member for Cumberland Emerging Technologies. James was recently recognized with a Tibbetts Award by the Small Business Administration (SBA) as one of the nation’s leading individuals making outstanding contributions to its Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs. James holds a B.S. in Biochemistry from the University of Virginia and a Ph.D. in Chemistry from Vanderbilt University, where he was a National Institute of Health Grant recipient. As a member of the Vanderbilt football team, James was also a First-Team Academic selection in the Southeastern Conference.

**College of Engineering, Technology and Computer Science Day**

**HOW RESEARCH CAN LEAD TO ENTREPRENEURSHIP**

James Stover, Ph.D., is Vice President of Operations for TTDC and responsible for developing, overseeing and managing all aspects of operations and strategic programming activities including the Technology Maturation Fund, Rural Seed Fund, and SBIR/STTR Phase 0/00 Program. Prior to joining TTDC, James was a life science and technology analyst with Square 1 Bank in San Diego, CA, and a senior research fellow in medicinal chemistry at the Scripps Research Institute. He has consulted with a number of early-stage companies in the areas of capital formation and management recruitment. He is a member of the Southeast Venture Group, serves on the public policy committee for the National Association of Seed and Venture Funds, and is a Board member for Cumberland Emerging Technologies. James was recently recognized with a Tibbetts Award by the Small Business Administration (SBA) as one of the nation’s leading individuals making outstanding contributions to its Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs. James holds a B.S. in Biochemistry from the University of Virginia and a Ph.D. in Chemistry from Vanderbilt University, where he was a National Institute of Health Grant recipient. As a member of the Vanderbilt football team, James was also a First-Team Academic selection in the Southeastern Conference.

**Wednesday, March 16, 2011**

**Schedule of Events**

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<td>9:00 am - 12:00 pm</td>
<td>Critical Thinking Workshop – AM Session</td>
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<tr>
<td>12:00 pm - 1:00 pm</td>
<td>Luncheon</td>
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<tr>
<td>Speaker, – Dr. James Stover, Vice President of Operations, Tennessee Technology Development Corporation</td>
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<tr>
<td>1:00 pm - 4:30 pm</td>
<td>Critical Thinking Workshop – PM Session</td>
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Mohamed Kanu, Ph.D., MPH, MA, is an assistant professor in the Department of Health Administration and Health Sciences at Tennessee State University. He received his Master’s and Doctoral degrees from Saint Louis University - School of Public Health in St. Louis, Missouri. He also holds a Master’s degree in Anthropology from the University of Memphis in Memphis, Tennessee.

Over the past several years, Dr. Kanu has been involved in several research grants such as the Tennessee Alcohol and Drug Prevention Outcome Longitudinal Evaluation (TADPOLE), Office of Minority Health (OMH), HIV/STD Evaluation Study, Community-Based TADPOLE and international health research.

Wednesday, March 16, 2011

Schedule of Events

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<td>Registration</td>
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<td>10:00 am – 12:00 noon</td>
<td>Poster Presentations</td>
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<td>10:00 am – 12:00 noon</td>
<td>Departmental Sessions</td>
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<tr>
<td>12:00 noon – 1:00 pm</td>
<td>Luncheon. Speaker Dr. Mohamed Kanu, Assistant Professor, Department of Health Administration and Health Sciences, Tennessee State University</td>
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Center of Academic Excellence in Intelligence Studies 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.

Darren Taylor, Speaker
Central Intelligence Agency (CIA)
Officer in Residence, Tennessee State University.

Thursday March 17, 2011

Schedule of Events

<table>
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<tbody>
<tr>
<td>9:00 a.m. – 12:00 noon</td>
<td>Critical Thinking Workshop - AM Session</td>
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<tr>
<td>11:30 a.m.</td>
<td>Intelligence Community Information Booths Open (Information and Networking Opportunities with Exhibitors)</td>
</tr>
<tr>
<td>12:00 noon - 1:00 p.m.</td>
<td>Luncheon Speaker - Darren Taylor, Central Intelligence Agency (CIA) Officer in Residence, Tennessee State University</td>
</tr>
<tr>
<td>1:00 p.m. - 4:30 p.m.</td>
<td>Critical Thinking Workshop - PM Session</td>
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</table>
APLS is a multi-disciplinary, multi-institutional professional organization 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 2011, 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 2009-2010 academic year, APLS logged over 150 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
Doris Appiah, Vice President. Community Service Chair
Famitah Buchanan, Treasurer and Chair of Finance Committee
Clarissa Parks, Secretary
Leslie Hughes, Press Secretary
Carl Darris, Co-Executive Director
James Tyus, Co-Executive Director
Ashley Pellerin, Executive Secretary

Thursday, March 17, 2011

Schedule of Events

Research and Sponsored Programs Building

Conference Room 107
10:00 am – 12:00 noon  APLS Professional Development Workshop Series:
 Strategies for Effective Self-marketing: CVs, Networking and Online Presence
   Mr. Dan Ryan, Ryan Search and Consulting
   Dr. Leslie Lynch, Tennessee Technology Development Corporation
   Dr. WilliA.M. Gittens, TSU Center for Career Development

Conference Room 209
12:00 noon – 2:00 pm  High School Oral Presentations Competition--

Nanoscience and Biotechnology Core Facility
1:15 pm – 2:45 pm  Forensic Genetics Workshop with High School Students:
   Crime Scene Investigation

Conference Room 163
3:00 pm – 4:30 pm  APLS Life Science Challenge and Competition
4:30 pm – 5:30 pm  APLS General Assembly
Biological Sciences Day

Dr. Aramandla Ramesh is an Associate Professor in the Department of Biochemistry and Cancer Biology. The research in Dr. Ramesh’s laboratory focuses on colon cancer caused by benzo(a)pyrene (BaP), a fat-soluble, widely distributed environmental chemical that belongs to the polycyclic aromatic hydrocarbon (PAH) family of compounds. Studies in his laboratory have shown that exposure of rats and mice to BaP and other PAHs through saturated fat cause induction of cytochrome P450 (CYP) family of enzymes resulting in the formation and distribution of reactive metabolites which stay in target tissues for a longer time and cause enhanced DNA damage. Dr. Ramesh’s research also looks at how bioavailable doses of environmental chemicals and their disposition in target tissues govern their metabolic fate in laboratory animal models and humans. Ongoing research in his laboratory will eventually address the issue of how environmental factors (exposure to toxicants) and dietary practices (excessive intake of animal meat and fat products tainted with BaP) contribute to colorectal cancer in African Americans (third leading cause of cancer related mortalities) relative to other racial/ethnic groups.

Before joining the faculty at Meharry in 2001, Dr. Ramesh was a research specialist in the Departments of Family & Preventive Medicine, and Pharmacology at Meharry. His earlier research focused on acute and subchronic toxicity of PAHs found in hazardous waste sites that were in close proximity to minority communities. Dr. Ramesh’s association with the MMC-VU ARCH consortium allows him to combine his long standing research experience in classical PAH toxicology and work collaboratively with Vanderbilt colleagues from the Basic Sciences and Community Medicine departments to investigate the interplay between diet and environmental contaminant exposure using state-of-the-art analytical and molecular approaches.

Dr. Ramesh earned his first Ph.D. in Marine Microbiology from Annamalai University, India in 1986. He earned his second Ph.D. in Environmental Toxicology from Ehime University, Japan in 1992. He served as a consultant to the Commonwealth Foundation, UK, International Development Research Centre, Canada, and Natural Environment Research Council, UK. Currently he serves on the editorial boards of Toxicology Mechanisms & Methods, and Polycyclic Aromatic Compounds.

Friday, March 18, 2011

Schedule of Events

Holland Hall 102

11:30 am - 12:30 pm  Exacerbation of Environmentally-Induced Colorectal Cancer by Dietary Fat

Speaker – Dr. Aramandla Ramesh, Associate Professor, Department of Biochemistry and Cancer Biology, Meharry Medical College
Friday, March 18, 2011 12:30 P.M. – 2:00 P.M.

Students Awards Ceremony

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

Welcome Mrs. Nannette C. Martin, Symposium Co-Chair

Luncheon

The Message from the President Dr. Portia Holmes Shields, President, Tennessee State University

Presentation of Awards Dr. Maria Thompson, Vice President for Research and Sponsored Programs
Student Awards
Research Mentor Award
Induction of Million Dollar Research Members for 2011
APLS Awards

Acknowledgements and Closing Remarks Dr. Carolyn Caudle, Symposium Co-Chair

Adjournment
Judges

Maria del Pilar Aguinaga, Ph.D., DLM, Meharry Medical College
Leah Alexander-Otupke, Ph.D., Meharry Medical College
Twum Ansah, Ph.D., Meharry Medical College
Anthony J. Baucum, II, Ph.D., Vanderbilt University
Jacqueline Butler-Mitchell, D.D.S., Integrity Dental Care - Smyrna
Helen Coleman, D.D.S., Correctional Medical Services
James H. Dickerson, II, Ph.D., Vanderbilt University
Saudat A. Fadeyi, Ph.D., Meharry Medical College
Mr. Charles Greer, NSWC Crane
Robert Holt, Ph.D., Meharry Medical College
Sharon Jenkins, Ph.D., University of Phoenix
Tiffany G. Latham, ANP-BC, Vanderbilt University
Nona M. Setler-Logan, M.D., Not For Women Only, INC.
Mohammed A. Maleque, Ph.D., Meharry Medical College
Diana Marver, Ph.D., Meharry Medical College
Heinrich Matthies, Ph.D., Vanderbilt University
Sydika McKissic, Ph.D., Vanderbilt University
Leah Miller, Ph.D., Vanderbilt University
Dedrick Moulton, M.D., Vanderbilt Medical College
Armandla Ramesh, Ph.D., Meharry Medical College
Mr. James Sanders, NSWC Crane
Angela Southwell, D.D.S., Associated Children’s Dentistry
Marilyn E. Thompson-Odom, Ph.D., Belmont University

2011 Research Symposium Committee

Sarahjit Bhatti, School of Agriculture and Consumer Sciences
Guler Boyraz, Psychology
Mark Brinkley, Center for Academic Excellence and Intelligence Studies, RSP
Reginald Cannon, Research and Sponsored Programs
Carolyn Caudle, Biological Sciences, (Symposium Co-chair)
David Danner, Research and Sponsored Programs
Phyllis Danner, Research and Sponsored Programs
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Everett Jolley, Admissions
Deborah Long, School of Agriculture and Consumer Sciences
Mohan Malkani, Engineering, Technology and Computer Science
Nannette Martin, Research and Sponsored Programs, (Symposium Co-chair)
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Yvonne Myles, Biological Sciences
Marilyn Parks, Center for Academic Excellence and Intelligence Studies
Belinda Patterson, Nursing
John Robinson, Biological Sciences
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James Tyus, APLS
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Michael Freeman, Ph.D., Vice-President, Student Affairs
Brenda McAdory, Biological Sciences, (former Symposium Co-chair)
Valerie Williams, Center of Excellence for Learning Sciences, (former Symposium Co-chair)
Research and Sponsored Project Awards FY 2010

SUBMISSIONS BY PROJECT TYPE

- Research $87,964,112.52 (108)
- Instruction/Training $14,996,259.53 (41)
- Service $22,764,873.94 (30)
- Other $51,173,398.59 (21)

TOTAL $176,898,644.58 (200)

AWARDS BY PROJECT TYPE

- Research $9,286,969 (50)
- Instruction/Training $22,817,791 (91)
- Service $7,776,377 (20)
- Construction/Renovation $2,349,630 (2)

TOTAL $42,230,767 (163)

SUBMISSIONS BY SOURCE

- Federal $129,237,681.50 (155)
- State $45,861,213.49 (20)
- Corporations $812,898.41 (9)
- Private Foundations $466,401.00 (13)
- Other $520,450.18 (3)

TOTAL $176,898,644.58 (200)

AWARDS BY SOURCE

- Federal $40,131,926 (138)
- State $1,306,244 (16)
- Corporations $730,046 (5)
- Private $62,551 (4)

TOTAL $42,230,767 (163)
## Student Awards

**RESEARCH SYMPOSIUM 2010**

**Graduate Student Oral Presentation - Sciences (Morning)**
- First Place: TA8 Caleb Kersey
- Second Place: TA6 Lakesha Glover
- Third Place: TA3 Thea Boatswain

**Graduate Student Oral Presentation - Sciences (Afternoon)**
- First Place: TP19 Michael Knap
- Second Place: TP13 Thyneice Taylor
- Third Place: TP14 Paul Agyemang

**Undergraduate Student Oral Presentation - Sciences**
- First Place: RA7 Hartman Madu
- Second Place: RA5 Felicia Udoji
- Third Place: RA8 Eunice Ng

**Graduate Student Oral Presentation - Health, Education & Social Sciences**
- First Place: WA1 J. Ballard, J. Studer, and A. Young
- Second Place: WA4 Matthew Corn, Don Kallial, Darian Payne, and Terry Burlock
- Third Place: WA3 Michael Davidson

**Graduate Student Oral Presentation - Engineering**
- First Place: WP6 Akindeji Ojetola
- Second Place: WP5 McKenzie McNeal
- Third Place: WP8 Charles D. McCurry

**Undergraduate Student Oral Presentation - Engineering**
- First Place: RP13 Carlton Cobb
- Second Place: RP12 Carmen Hollingsworth

**Graduate Student Poster Presentation - Agricultural & Consumer Sciences**
- First Place: P27 Stephen Lewis
- Second Place: P29 Stephen Lewis
- Third Place: P24 Niharika Ogha

**Graduate Student Poster Presentation - Biological Sciences**
- First Place: P39 Tromondae Feaster
- Second Place: P45 Olena McDowell
- Third Place: P43 Carl Darris

**Undergraduate Student Poster Presentation - Biological Sciences**
- First Place: P3 Rachel Etherton
- Second Place: P2 Tamara Martin
- Third Place: P4 Catherine Jackson

**Graduate Student Poster Presentation - Chemistry**
- First Place: P47 Lindsay Celada
- Second Place: P11 Murcellus St. Louis

**Undergraduate Student Poster Presentation - Chemistry**
- First Place: P92 Angel Sherrill
- Second Place: P64 April Shelide and Faith Buchanan
- Third Place: P74 Shannon Christiansen, Jim Cunningham, Felicia Jeffers, and April Shelide

**Graduate Student Poster Presentation - Health Education & Social Sciences**
- First Place: P02 Alex Frederick
- Second Place: P16 Gia Barden, Megan Hudson, Salome Ranson, Holly Sipes, and Kera Taylor
- Third Place: P18 Amber Clayborne

**Undergraduate Student Poster Presentation - Engineering**
- First Place: P14 Gary Moore, Jr.
- Second Place: P13 Chanthavone Keobounhom
- Third Place: P15 Peter Riad and Thanu Meena

### Oral Presentations
- 1st Place: $250
- 2nd Place: $100
- 3rd Place: $50

### Poster Presentations
- 1st Place: $150
- 2nd Place: $75
- 3rd Place: $25

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### 2010 Research Mentorship Award Winner

**Margaret Whalen, Ph.D.**

Congratulations to Dr. Margaret Whalen, Professor, Department of Chemistry, the inaugural winner of the Research Mentorship Award.

Dr. Whalen was awarded this honor for serving as mentor/advior to the greatest number of winning student research entries during the 32nd Annual University-Wide Research Symposium, 2010. Five of Dr. Whalen's twelve student entries placed in the student research competitions. She received $1,000 cash in recognition of her research mentorship.

### List of Dr. Whalen's Winning Student Research Mentees

**Graduate Poster Presentation—Chemistry**
- 1st Place, Lindsay Celada

**Undergraduate Poster Presentation—Biological Sciences**
- 1st Place, Rachel Etherton
- 2nd Place, Tamara Martin

**Graduate Oral Presentation—Chemistry**
- 1st Place, P47 Lindsay Celada

**Undergraduate Oral Presentation—Sciences**
- 2nd Place, Thyneice Taylor and E. Kimbakaya

**Graduate Oral Presentation—Biological Sciences**
- 1st Place, Rachel Etherton
- 2nd Place, Tamara Martin

**Undergraduate Oral Presentation—Engineering**
- 2nd Place, Felicia Udoji
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Congratulations to the Newest Million Dollar Club Members

Maria Thompson, Ph.D.

Dr. Maria Thompson serves as vice president of Research and Sponsored Programs at Tennessee State University (TSU) where she oversees $40 million in externally funded projects annually. She is principal investigator for more than $2 million in grant-funded projects. She received a B.S. from TSU and a M.S. from The Ohio State University. She received her doctorate in textile science and textile economics from the University of Tennessee, Knoxville. She is the founder of the Capital City Resource Consortium (CCRC), an organization established to foster economic and academic growth in the areas of science, technology, engineering and mathematics and to create and promote long-term economic development and job creation.

Mr. Ronnie Brooks is a licensed professional engineer in Illinois and Tennessee. He received a bachelor’s in Civil Engineering from The University of South Carolina and a master’s in Civil Engineering from Illinois Institute of Technology. Presently, he is pursuing a doctorate in education at The University of Memphis. Prior to coming to TSU in 2008, he was associate director of the physical plant at The University of Memphis from 1995-2008. He is a board member of the Association of Higher Education Facilities Officers and a member of the Southeastern Regional and the Tennessee Associations of Physical Plant Administrators.

Ronnie Brooks, MSCE

S. Keith Hargrove, Ph.D.

Dr. S. Keith Hargrove serves as Dean of the College of Engineering, Technology and Computer Science at Tennessee State University (TSU). He received his B.S. in Mechanical Engineering from TSU, his M.S. from the Missouri University of Science and Technology, and his Ph.D. from the University of Iowa. Dr. Hargrove completed post-doctoral research at the University of Michigan and has industry experience with General Electric Company. His research interests are in virtual and augmented reality, advanced manufacturing systems, systems engineering and management, and minority engineering education.

Dr. Pamela C. Hull is the associate director of the TSU Center for Health Research, earned a B.A. in Sociology from Duke University and an M.A. and Ph.D. in Sociology from Vanderbilt University. Dr. Hull’s research focuses on the development and testing of multi-level public health interventions to prevent and detect cancer and obesity and to reduce racial/ethnic health disparities. She conducts community-based participatory research with community partners in the Hispanic and African American communities.

Pamela C. Hull, Ph.D.
Jennifer Stewart-Wright, Ph.D.

Dr. Jennifer Stewart-Wright began her service to TSU as a chemistry professor with her Ph.D. in biochemistry. She used her enthusiasm and creativity to help fellow scientists and students find unusual opportunities. These skills became even more useful to the Vice President for Research and Sponsored Programs in facilitating grant proposals and successful grant management. Jennifer has served RSP in various roles for the past six years, and currently serves as the director of the Center of Excellence for Learning Sciences.

Katari Coleman, M.Ed.

Mrs. Katari Coleman is the statewide program director for the Tennessee Early Childhood Training Alliance (TECTA) for Tennessee State University’s Center of Excellence for Learning Sciences. She received her B.A. in sociology from the University of Illinois, her M.Ed. in child development from Erikson Institute (Loyola University) and is currently working on her doctorate in education at Loyola University. She is a board member of the Tennessee Association for the Education of Young Children and a national committee chair for the National Association of University Women.

Peter Millet, Ph.D.

Dr. Peter Millet is Dean of the College of Education at Tennessee State University. He received both his M.S. and Ph.D. degrees in Clinical Psychology from The Ohio State University. He holds a B.A. in Clinical Psychology from Oakland University. Dr. Millet currently serves as chairman of the Elam Mental Health Center Advisory Board at Meharry Medical College and as a consulting clinical psychologist for Matthew Walker Community Health Center, both in Nashville. Prior to becoming the education dean, he served as chairman of TSU’s Department of Psychology.

Million Dollar Club Members

Ronnie G. Brooks, Facilities Management
Dr. Michael Busby, Center for Excellence in Information Systems Engineering and Management
Mrs. Katari Coleman, Center of Excellence for Learning Sciences
Dr. Satinderpal Devgan, College of Engineering, Technology, and Computer Science
Dr. Soumen N. Ghosh, Office of Business and Economic Research
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Dr. Maria Thompson, Division of Research and Sponsored Programs
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PROGRAMS AND PROJECTS
- Head Start Career Advancement Partnership Program (HS-CAPP)
- Tennessee Childcare Online Training System (TCOTS)
- 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:
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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

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