33RD ANNUAL UNIVERSITY-WIDE RESEARCH SYMPOSIUM

MARCH 14-18, 2011

ESEARCH:

CELEBRATING

EXCELLENCE



PRODUCING THE NEXT GENERATION OF GLOBAL RESEARCHERS

Recognizing the

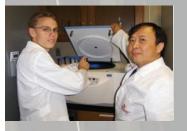
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ESEARCH: CELEBRATING EXCELLENCE

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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



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

OFFICE OF THE PRESIDENT



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,

Shields

Portia H. Shields, President Tennessee State University

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



OFFICE OF THE VICE PRESIDENT

ESIDENT

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.

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

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

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

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

Occasion

Mrs. Nannette C. Martin Research Symposium Co-Chair

DR. PORTIA HOLMES SHIELDS PRESIDENT, TENNESSEE STATE UNIVERSITY

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 Program

> Dr. Carolyn Caudle Research Symposium Co-Chair

Acknowledgements and Announcements

Reception to follow in the Rotunda

Dorian Townsend, Senior in Music Miranda Gladney, Junior in Music Education Evelyn Laureano, Graduate Student in Music Education



KEYNOTE SPEAKER

James E. K. Hildreth, Ph.D., M.D.

Director, Center for AIDS Health Disparities Research Professor, Department of Internal Medicine Meharry Medical College, Nashville, Tennessee

Professor, Department of Pharmacology and Molecular Sciences Johns Hopkins School of Medicine, Baltimore, Maryland



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	
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
8:30 a.m. – 11:00 a.m.	GRADUATE ENGINEERING I
11:00 a.m. – 1:30 p.m.	UNDERGRADUATE ENGINEERING I
School of Nursing Day • 8:00	a.m 1:00 p.m. James E. Farrell – Fred E. Westbrook Building, 118
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
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	
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
8:30 a.m. – 10:45 a.m.	GRADUATE ENGINEERING II
11:30 a.m. – 2:15 p.m.	GRADUATE SCIENCE I
2:15 p.m. – 4:15 p.m.	UNDERGRADUATE ENGINEERING II
JUDGING for Undergraduate Po	sters– Jane Elliott Hall Auditorium 9:30 a.m. – 11:30 a.m. and 1:30 p.m. – 3:30 p.m.
Pyschology Day • 1:00 p.m	6:00 p.m. James E. Farrell – Fred E. Westbrook Building, 118
4:00 p.m. – 5:00 p.m.	Workshop & Panel Discussion: "Contemporary and Professional Issues in Psychology"
WEDNESDAY, MARCH 16, 2011	
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
8:30 a.m. – 11:30 a.m.	GRADUATE SCIENCE II
1:30 p.m. – 3:30 p.m.	UNDERGRADUATE SCIENCE
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
9:00 a.m. – 12:00 noon	Critical Thinking Workshops
12:00 noon – 1:00 p.m.	Luncheon – Speaker
	Dr. James Stover, Tennessee Technology Development Corporation

Posters will be displayed in the Jane Elliott Hall Auditorium. Undergraduate and Faculty March 14-15, 2011 and Graduate from March 16-17, 2011

Overview of Events

WEDNESDAY, MARCH 16, 2011		
1:00 p.m. – 4:30 p.m.	Critical Thinking Workshops	
College of Health Sciences Da	y • 9:00 a.m 2:00 p.m. Clement Hall, 165	
12:00 noon – 1:00 p.m.	Luncheon – Speaker Dr. Mohamed Kanu, Assistant Professor, Department of Health Administration and Health Sciences, Tennessee State University	
THURSDAY, MARCH 17, 2011		
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".	
JUDGING for Graduate Posters– J	ane Elliott Hall Auditorium 9:30 a.m. – 11:30 a.m. and 1:30 p.m. – 3:30 p.m.	

Center of Academic Excellence in Intelligence Studies Day • 9:00 a.m.- 4:30 p.m. James E. Farrell – Fred E. Westbrook Building, 118

9:00 a.m 12:00 noon	Critical Thinking Workshops
12:00 noon – 1:00 p.m.	Luncheon – Speaker Darren Taylor, Central Intelligence Agency (CIA) Officer in Residence, Tennessee State University
1:00 p.m. – 4:30 p.m.	Critical Thinking Workshops

Association of Pre-Professional Life Scientists (APLS) Day • 10:00 a.m.- 5:30 p.m.

Research and Sponsored Programs Building

	5
10:00 a.m. – 12:00 noon	Room 107, APLS Professional Development Workshop Series
12:00 noon – 2:00 p.m.	Room 209, High School Oral Presentations Competition
1:15 p.m. – 2:45 p.m.	Nanoscience and Biotechnology CORE Facility; Forensic Genetics Workshop - Crime Scene Investigation
3:00 p.m. – 4:30 p.m.	Room 163, Life Science Challenge and Competition; Awards Ceremony
4:30 p.m. – 5:30 p.m.	APLS General Assembly
FRIDAY, MARCH 18, 2011	
8:00 a.m 10:00 a.m.	Symposium Registration – Program booklets available
	Research and Sponsored Programs Bldg, First Floor Lobby
ORAL PRESENTATIONS	Research and Sponsored Programs Building, Room 163
10:00 a.m. – 11:00 a.m.	FACULTY
Biological Sciences Day • Ho	lland Hall 102
11:30 a.m. – 12:30 p.m.	Speaker - Dr. Aramandla Ramesh, Associate Professor
	Department of Biochemistry and Cancer Biology, Meharry Medical College
Students Awards Ceremony	James E. Farrell – Fred E. Westbrook Building, 118
12:30 p.m. – 2:00 p.m.	Welcome, Luncheon, and The Message from the President
	VP, RSP Presentation of Awards Acknowledgements, Closing, and Adjournment



The Research Symposium

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 33 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 (2008-2010).

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. 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

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

Oral Presentations

Monday, March 14, 2011 GRADUATE ENGINEERING I STUDENTS

All Pres	entations	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, Sivapragasm; Advisor, Dr. Sivarpragasm Sathananthan. 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 Lyatuu, Isaac*, Knap, Michael, Sathananthan, Sivapragasam* and Keel, Lee; Advisor, Dr. Sivapragasam Sathananthan. 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*, Sathananthan, Sivapragasam and Keel, Lee; Advisor, Dr. Sivapragasam Sathananthan. 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, Vallaban*, 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*, Haley, 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 Computer Science
12:30	UE7	FEATURE EXTRACTION AND CLASSIFIER DESIGN FOR AIRCRAFT STRUCTURAL HEALTH MONITORING Marshall, Djauna*, Bodruzzaman, Mohammad and Zein-Sabatto, Mohamed; Advisor, Dr. Mohammad Bodruzzaman. Department of Electrical and Computer Engineering

PRESENTATION SCHEDULES

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

GRA	DUATE	ENGINEERING II STUDENTS
All Pres	entations	will be in the Research and Sponsored Programs Building Room 163
8:30	GE11	DEVELOPMENT OF COMPUTER AIDED DESIGN TECHNIQUE FOR SEAT COMFORT ANALYSIS Sead, Amer* and Onyebueke, Landon; Advisor, Dr. Landon Onyebueke. Department of Mechanical and Manufacturing Engineering
8:45	GE12	ADVANCED SIGNAL PROCESSING AND DECISION FUSION FOR AIRCRAFT STRUCTURE HEALTH MONITORING Mikhail, Maded* and Zein-Sabatto, Salah; Advisor, Dr. Salah Zein-Sabatto. Department of Electrical Engineering
9:00	GE13	DEVELOPMENT OF AN AUTONOMOUS AND INTELLIGENT MOBILE GROUND SENSOR FOR LAYERED SENSING SYSTEMS Moma, Kasonga*, and Mohamed, Zein-Sabatto; Advisor, Dr. Zein-Sabatto Mohamed. Department of Electrical Engineering
9:15	GE14	DATA BASED DESIGN OF PID CONTROLLERS FOR A MAGNETIC LEVITATION EXPERIMENT Kallakuri, Sirisha* and Keel, Lee Hyun; Advisor, Dr. Lee Hyun Keel. Department of Electrical and Computer Engineering
9:30	GE15	DEVELOPMENT OF DECISION FUSION SOFTWARE SYSTEM FOR TURBINE ENGINE'S FAULT DIAGNOSTICS Al-Salah, Tulha* and Zein-Sabatto, M. Saleh; Advisor, Dr. M.Saleh Zein-Sabatto. Department of Electrical and Computer Engineering
9:45	GE16	ROBUST NETWORKING ARCHITECTURE AND SECURE COMMUNICATION SCHEME FOR HETEROGENEOUS WIRELESS SENSOR NETWORKS McNeal, McKenzie* and Chen, Wei; Advisor, Dr. Wei Chen. Department of Computer Science
10:00	GE17	DESIGN OF INTELLIGENT SYSTEM FOR STRUCTURAL HEALTH MONITORING USING ARTIFICIAL INTELLIGENCE TECHNIQUES Tyrell, Kevin*and Zein-Sabatto, M. Saleh; Advisor, Dr. M.Saleh Zein-Sabatto. Department of Electrical and Computer Engineering
10:15	GE18	DEVELOPMENT OF ANALYTICAL TECHNIQUE, TOOL, AND METRIC FOR SEAT COMFORT PREDICTION Ojetola, Akindeji*, and Onyebueke, Landon; Advisor, Dr. Landon Onyebueke. Department of Mechanical and Manufacturing Engineering
10:30	GE19	FEASIBILITY OF WIND-INDUCED VIBRATION ENERGY HARVESTER FOR AUTOMOBILE Sweafford, Jerry* and Hamidzadeh, Hamid; Advisor, Dr. Hamid Hamidzadeh. Department of Mechanical and Manufacturing Engineering
GRAI	DUATE	SCIENCE I STUDENTS AGRICULTURAL AND CONSUMER SCIENCE
11:30	GS1	ISOLATION OF A PECTOBACTERIUM CAROTOVORUM MUTANT INCREASED IN THE PRODUCTION OF PLANT DISEASE CAUSING ENZYMES Kersey, Caleb* and Dumenyo, C. Korsi; Advisor, Dr. C. Korsi Dumenyo. School of Agriculture and Consumer Sciences
11:45	GS2	EVALUATION OF OPTIMUM CALCIUM AND PHOSPHORUS REQUIREMENT FOR PEARL GREY GUINEA FOWL REPLACEMENT PULLET Kelley, Gary* and Nahashon, Samuel; Advisor, Dr. Samuel Nahashon. School of Agriculture and Consumer Sciences
12:00	GS3	INTERACTION OF SOFT ROT BACTERIUM WITH HOST CHEMICAL SIGNALS Agyemang, Paul, Kersey, Caleb* and Dumenyo, C. Korsi; Advisor, Dr. C. Korsi Dumenyo. School of Agriculture and Consumer Sciences
12:15	GS4	PERPETUATION OF CHERRY LEAF SPOT DISEASE IN FLOWERING CHERRY Joshua, Jacqueline*, Mmbaga, Margaret and Mackasmiel, Lucas; Advisor, Dr. Margaret Mmbaga. School of Agriculture and Consumer Sciences
12:30	GS5	FURAZOLIDONE-INDUCED CARDIOMYOPATHY IN BROILER CHICKENS Boatswain, Thea* and Nahashon, Samuel; Advisor, Dr. Samuel Nahashon. School of Agriculture and Consumer Sciences
12:45	GS6	ENHANCEMENT OF SELENOCYSTEINE UTILIZATION IN CHICKENS USING DIRECT-FED PROBIOTICS AND

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
GS8	FACTORS INFLUENCING TENNESSEE LANDOWNERS ATTITUDES AND WILLINGNESS TO ENTER THE VOLUNTARY CARBON MARKET Allen, Derek *and Singh, Surendra; Advisor, Dr. Dr. Surendra Singh. School of Agriculture and Consumer Sciences Agribusiness
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
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.
	GS8 GS9

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 Keobounhom, 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 Agim, 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 Enginnering, Technology, & Computer Science
3:45	UE17	AN EXPERIMENTAL VALIDATION OF DATA-BASED PID CONTROLLER DESIGN FOR LINEAR TIME-INVARIANT 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, Philippi, 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? Peterson, Mitchell*, Sundstrom, Ashley, Thompson, Akeila, 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, Nickels, 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

PRESENTATION SCHEDULES

9:45	GS16	CANCER SCREENING UTILIZATION IN COMMUNITY HEALTH CLINICS Sherrill, Angel * and Hull, Pamela; Advisor, Dr. Pamela Hull. Center for Health Research
10:00	GS17	NOVEL MICROWAVE IRRADIATED PD-CATALYZED CROSS-COUPLING REACTION OF POTASSIUM ALLYLTRIFLUOROBORATE AND AROYL CHLORIDES Liu, Kwei*, Mohammad, Al-Masum; Advisor, Dr. Mohammad Al-Masum. Department of Chemistry
10:15	GS18	PENTACHLOROPHENOL DECREASES CELL SURFACE PROTEIN EXPRESSION IN NATURAL KILLER CELLS Hurd, Tasia*, Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Chemistry
10:30	GS19	TANTALUS' FORBIDDEN FRUIT: REVIEW OF CASUAL FACTORS FOR MINORITY UNDERREPRESENTATION IN THE SCIENCES Walden, Erin* and Arino de la Rubia, Leigh; Advisor, Dr. Leigh Arino de la Rubia. Dept. of Curriculum and Instruction
10:45	GS20	CAREER-THREATENING WRIST INJURIES IN PROFESSIONAL PIANISTS: CAUSES, PREVENTIONS, AND BEST PRACTICE AND PERFORMANCE ROUTINES Laureano, Evelyn.* Advisor, Dr. Robert Elliott. Department of Music
11:00	GS21	CHRONIC ETHANOL PROMOTES CELLULAR DEATHS IN HYPERTENSIVE VASCULAR SMOOTH MUSCLE CELLS THROUGH ALTERATIONS OF MITOGEN ACTIVATED PROTEIN KINASES Jackson, Catherine.* Advisor, Dr. Bennie Washington. Department of Biological Sciences
11:15	GS22	MAJOR INSULIN SIGNALING MOLECULES ALTERATION IN HYPERTENSIVE VASCULAR SMOOTH MUSCLE CELLS BY ETHANOL Williams, Sparkle.* Advisor, Dr. Bennie Washington. Department of Biological Sciences
UND	ERGRA	DUATE SCIENCE I STUDENTS
1:30	US1	HISTIDINE TRIAD NUCLEOTIDE BINDING PROTEIN-BASED SEX DIFFERENTIATION IN GUINEA FOWL Smith, Jenae*, Nahashon, Samuel, Young, Jeremy and Nahashon, Samuel; Advisor, Dr. Samuel Nahashon. School of Agricultural and Consumer Sciences

1:45 US2 MICROBIAL, MINERAL, AND SOIL RESPIRATION VARIATIONS IN TOPSOIL FROM MULTIFARIOUS TERRESTRIAL ECOSYSTEMS Davidson, Chloe*, Dzantor, Kudjo, and Hui, Dafeng; Advisor, Dr. Dafeng Hui. Department of Biological Sciences

- 2:00 US3 OVERALL EFFFECTS OF RETINOPATHY ON THE CARDIOVASCULAR SYSTEM DUE TO DIABETES MELLITUS Tibbs, Teric*, Modena, Shantae and Harlston, Lois ; Advisor, Dr. Lois Harlston. Department of Biological Sciences
- 2:15 US4 CURRENT ADVANCES IN DIABETES RESEARCH FROM 2000-2010 ACCORDING TO AGE, GENDER, RACE AND BIOTHERAPY Capre, Timothy*, Young, Dondre and Harlston, Lois; Advisor, Dr. Lois Harlston. Department of Biological Sciences
- 2:30 US5 HYBRID IMPULSIVE CONTROL OF STOCHASTIC SYSTEMS WITH NOISE DEPENDENT STATES AND INPUTS UNDER MARKOVIAN SWITCHING Noel Jordan, Jameson*, Sathananthan, Sivapragasam, Lyatuu, Isaac and Keel, Lee; Advisor, Dr. Sivapragasam Sathananthan. Center of Excellence in Information Systems
 2:45 US6 THE COMPLEXATION STUDY OF FE(II) AND FE(III) WITH THE BIDENTAE LIGAND 4-AMINOTHIOPHENOL Dean, V., Warren* and Siddiquee, Tasneem; Advisor, Dr. Tasneem Siddiquee. Department of Chemistry
- 3:00 US7 NEW METHOD FOR THE SYNTHESIS OF MANGANESE OXIDE NANOPARTICLES Pennington, Marcus, Bradley, Ashley, Moore, Joshua and Sutton, Susan; Advisor, Dr. Tasneem Siddiquee. Department of Chemistry and Division of Research and Sponsored Programs
- 3:15 US8 IMPACT OF IRRIGATION PRACTICES ON WATER QUALITY OF TWO COMMUNITY GARDENS Frederick, Alex*, Stone, Richard, Long, Deborah, Chen, Fur-Chi and Godwin, Sandria; Advisor, Dr. Sandria Godwin. Department of Family and Consumer Sciences

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 English* Mafuyai Ekanem Many Tagagna Eisseba Singh Surendra ar

Ekanem, Enefiok*, Mafuyai-Ekanem, Mary, Tegegne, Fisseha, Singh, Surendra and Thompson, Cindy. School of Agriculture and Consumer Science

10:15	F2	REMARKABLE DEVELOPMENTS OF PD-CATALYZED CROSS-COUPLING REACTIONS FOR C-C AND C-N BOND FORMATION REACTIONS Al-Masum, Mohammad*. Department of Chemistry
10:30	F3	SPATIAL DISTRIBUTION OF CALCIUM-GATED CHLORIDE CHANNELS IN OLFACTORY CILIA Badamdorj, Dorjsuren*, French, Donald and Kleene, Steven. Department of Mathematics and Physics
10:45	F4	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
Mon	day &	PresentationsJudging for Undergraduate Poster Tuesday, March 14-15, 9:00A.M 4:30P.M.DUATE STUDENTSJudging for Undergraduate Poster Tuesday, March 15, 20 Even Numbered Posters 9:30am to 11:30a Odd Numbered Posters 1:30pm to 3:30pm
Poster	Presentatio	ons will be in the Jane Elliott Hall, Auditorium
P1		ELATION BETWEEN ACADEMIC PERFORMANCE AND SLEEP DISTURBANCES AMONG COLLEGE STUDENTS on, Steve* and Jackson, Cynthia ; Advisor, Dr. Cynthia Jackson. Department of Psychology
P2	UNDERSTANDING RHIZODEGRADATION FOR USE IN PHYTOREMEDIATING SOILS CONTAMINATED WITH THE PYRETHROID INSECTICIDE CYFLUTHRIN Blacksmith, Marie*, Dzantor, E. Kudjo and Dzantor, E.; Advisor, Dr. E. Kudjo Dzantor. School of Agriculture and Consumer Sciences	
P3	CORRELATION BETWEEN ACADEMIC PERFORMANCE AND PEER PRESSURE Buckles, Brett* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology	
P4	PD-CATALYZED CROSS-COUPLING REACTION OF POTASSIUM ARYLTRIFLUOROBORATES WITH AMINOETHANOLS Cain, Laurance* and Al-Masum, Mohammad; Advisor, Dr. Mohammad Al-Masum. Department of Chemistry	
P5	ANALYZING KARST SPRINGS PRE AND POST FLOOD Cobb, Carlton*, Cobb, Brandon, West, Ashley and Byl, Tom; Advisor, Dr. Tom Byl. Dept of Civil and Environmental Engineering	
P6	FURTHER VALIDATION OF THE NCBRS (NEED FOR COGNITION ABOUT BEHAVIOR IN RELATIONSHIPS SCALE) Connor, Rachel* and Ault, Lara; Advisor, Dr. Lara Ault. Department of Psychology	
P 7	EFFECTS OF MEDIA INFLUENCE ON COLLEGE STUDENTS BODY IMAGES Denton, Jasmine* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology	
P8	SELF EFFICACY, SELF-ESTEEM & ITS EFFECT ON ACADEMIC PERFORMANCE Dixon, Ryan* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology	
P9	ACTIVATION OF MITOGEN-ACTIVATED PROTEIN KINASES IN HUMAN NATURAL KILLER CELLS BY TRICLOSAN Ellis, Crystal* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Chemistry	
P10	IS THERE A CORRELATION BETWEEN SELF-ESTEEM AND LONGEVITY OF A RELATIONSHIP Green, Shannon* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology	
P11	IS SEL	F ESTEEM HIGHER IN FEMALE COLLEGE STUDENTS WHO ARE IN RELATIONSHIPS RATHER THAN THOSE WHO

- P11 IS SELF ESTEEM HIGHER IN FEMALE COLLEGE STUDENTS WHO ARE IN RELATIONSHIPS RATHER THAN THOSE WHO ARE SINGLE Griffin, Pretoria*and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology
- P12 AN ANALYSIS OF NEGATIVE PARENTING STYLES ON RELATIONSHIPS Hawkins, Ja'Nay* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology
- P13 NANOGRAFTING THIOLS ON GOLD SUBSTRATES USING A NANOGRAFTING PROGRAM PURCHASED FROM AGLIENT TECHNOLOGIES Holman, Thomas*, Sutton, Susan, Parker, Adrian, Reynolds, Jonathon, Eakinsand, Kimberly, Hargrove, Samuel; Advisor, Dr. Samuel Hargrove. Department of Mechanical Engineering
- P14 ISOLATION AND CHARACTERIZATION OF BACILLUS THURINGIENSIS FROM 3 COUNTIES IN MIDDLE TENNESSEE Ingram, Adia*, Burgess, Tiffany, Chimezie, Stephanie, Bellamy, April and Ejiofor, Anthony; Advisor, Dr. Anthony Ejiofor. Department of Biological Sciences

P15 WHO DRIVES THE PULVINAR Jabeen, Asiya*, Casagrande, Vivien, Jiang, Yaoguang and Kelly, Kiesa; Advisor, Dr. Kiesa Kelly. Department of Psychology

- P16 ON THE USE OF NETWORKS IN INTERNATIONAL RELATIONS Jackson, Elais*and Russell, Brian; Advisor, Dr. Brian Russell. Department of History, Geography, and Political Science
- P17 SEARCHING FOR TRENDS IN UNDERGRADUATE STUDENTS' EPISTEMOLOGIES OF SCIENCE Jackson, Elais* and Russell, Brian; Advisor, Dr. Brian Russell. History, Geography, and Political Science

P18	GENDER DIFFERENCES ON ALCOHOL CONSUMPTION AMONG COLLEGE STUDENTS Jones, Kayla and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology
P19	AN ANALYSIS AMONG SLEEP HABITS OF COLLEGE STUDENTS Kimbrough, Brittney* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson, Department of Psychology
P20	AFRICAN AMERICAN ENGLISH AND HIP HOP/RAP MUSIC: A RELATIONAL ANALYSIS Love Baker, Cierra*, Flatt, Daniel, Howard, Jalesa, LaNier, Jeanna, Chareva, McCullough and Johnson-Arnold, Iris; Advisor, Dr. Iris Johnson-Arnold. Department of Speech Pathology
P21	PD-CATALYZED CONVERSION OF ARYLVINYLTRIFLUOROBORATES TO ARYLVINYLNITRITES McGhee, Vera* and Al-Masum, Mohammad; Advisor, Dr. Mohammad Al-Masum. Department of Chemistry
P22	MOTION TRACKING ON A SURFACE WITH TISCH Moore, Gary* and Rogers, Tarmara; Advisor, Dr. Tamara Rogers. Department of Computer Science
P23	AN ANALYSIS OF VERBAL AND NON-VERBAL NURSING HOMES RESIDENTS: COMPROMISED CARE Nandzo, Theresa* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology
P24	EFFECT OF COLLEGE STUDENTS AND ALCOHOL ABUSE Pinckney, India* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology
P25	MEDIA EFFECT OR RELATIONSHIP OF EATING DISORDERS AND SELF-ESTEEM IN TODAY'S WORLD Polk, Arnishia* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology
P26	BROMINATED FLAME RETARDANTS, HEXABROMCYLODODECANE AND TETRABROMOBISPHENOL A, DECREASE SECRETION OF INTERFERON GAMMA FROM HUMAN NATURAL KILLER CELLS Reid, Jacqueline* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Chemistry
P27	DNA COPY NUMBER VARIATION AT ZFR LOCUS ON CHROMOSOME 1 INVOLVES LONG TERMINAL REPEAT Ruff, Amanda* and Wang, Xiaofei; Advisor, Dr. Xiaofei Wang. Department of Biological Sciences
P28	DESIGN OF GUI FOR ONLINE MONITORING OF STRUCTURAL HEALTH Sasic, Adis* and Bodruzzaman, Mohammad; Advisor, Dr. Mohammad Bodruzzaman. Department of Electrical and Computer Engineering
P29	ABSTRACT EATING DISORDER AMONG ETHNIC MINORITY FEMALE STUDENTS Sharif, Amina* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology
P30	ACTIVATION OF MITOGEN-ACTIVATED PROTEIN KINASE KINASES IN HUMAN NATURAL KILLER LYMPHOCYTES BY TETRABROMOBISPHENOL A Simmons, Nadia* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Chemistry
P31	FT-IR SPECTROSCOPY STUDY OF THE SYNTHESIS OF GOLD AND SILVER NANOPARTICLES USING POLYSACCHARIDES Simmons, Kiara*, Tyler, Lauren and Vercruysse, Koen; Advisor, Dr. Koen Vercruysse. Department of Chemistry
P32	AN AB INITIO STUDY OF STRUCTURES, VIBRATIONAL SPECTRA, AND ENERGETICS OF XPO SPECIES (H,F,CL,&BR) Sledge, Alexis* and Guha, Sujata; Advisor, Dr. Sujata Guha. Department of Chemistry
P33	DESIGN OF INTELLIGENT CONTROL SYSTEM FOR TURBINE ENGINES Smith, Jonathan* and Zein-Sabatto, M. Saleh; Advisor, Dr. M. Saleh Zein-Sabatto. Department of Electrical and Computer Engineering
P34	APPLYING GEOGRAPHIC INFORMATION SYSTEM (GIS) TO VISUALIZE THE INTERACTION BETWEEN TREES AND CONTAMINATED GROUNDWATER Spear, Lore'al*, Brooks, Jaala and Byl, Tom; Advisor, Dr. Tom Byl. Department of Civil and Environmental Engineering
P35	AN ANALYSIS OF HOMOSEXUAL OPINIONS BASED ON CLASSIFICATION OF COLLEGE STUDENTS Swain, Quentin* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology
P36	UV/VIS SPECTROSCOPIC STUDY OF THE SYNTHESIS OF GOLD AND SILVER NANOPARTICLES USING POLYSACCHARIDES Tyler, Lauren*, Robinson, Sherene, Verberne-Sutton, Susan, Moore, Joshua and Vercruysse, Koen; Advisor, Dr. Koen Vercruysse. Department of Chemistry
P37	EFFECTS OF FOOD SAFETY EDUCATION ON CONSUMERS KNOWLEDGE OF FOODBORNE ILLNESS PREVENTION DURING A DISASTER Weakley, Jennifer*, Godwin, Sandria and Stone, Richard; Advisor, Dr. Sandria Godwin. Department of Family and Consumer Sciences
P38	PROTECTING THE UNIQUE ECOSYSTEM FROM CONTAMINATED STORM RUNOFF AT MAMMOTH CAVE, KY West, Ashley* and Byl, Tom; Advisor, Dr. Thomas Byl. Department of Civil and Environmental Engineering
P39	FREQUENCY OF ZINC FINGER RNA BINDING PROTEIN INSERTION/DELETION VARIATION IN GALLUS GALLUS Wilson, Shatira* and Wang, Xiaofei; Advisor, Dr. Xiaofei Wang. Department of Biological Sciences
P40	AN ANALYSIS OF ACADEMIC CLASSIFICATION AND STRESS LEVELS Khadijah, Rahim* and Jackson, Cynthia; Advisor, Dr. Cynthia Jackson. Department of Psychology

POSTER PRESENTATIONS

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

Judging for Graduate Posters Wednesday, March 16, 2011 Even: 9:30am to 11:30am / Odds: 1:30pm to 3:30pm Thursday, March 17, 2011 Odds: 9:30am to 11:30am / Evens: 1:30pm to 3:30pm

GRADUATE STUDENTS

Poster Presentations will be in the Jane Elliott Hall, Auditorium

- P1 DEVELOPMENT OF CLUSTERING AND CLASSIFICATION SOFTWARE SYSTEM FOR STRUCTURE HEALTH MONITORING Alsalah, Abdalla* and Zein-Sabatto, Saleh; Advisor, Dr. Saleh Zein-Sabatto. Department of Electrical and Computer Engineering
- P2 GENDER DIFFERENCES IN SOCIAL COGNITIVE MEASURES AND THE ACADEMIC ACHIEVEMENT OF AFRICAN AMERICAN STUDENTS

Armstrong, Aisha*and Hammond, Marie; Advisor, Dr. Marie Hammond. Department of Psychology

P3 THE ANALYSIS OF THE RELATIONSHIP BETWEEN THE APPROPRIATE WEIGHT AND DURATION WHEN USING A WEIGHTED VEST AND THE PERCEIVED EFFECTIVENESS

Ball, Leah*, Hill, Shaquina, Lambert, Jennifer, Snyder, Larry; Advisor, Dr. Larry Snyder. Department of Occupational Therapy

P4 VALIDATING THE GROSS NATIONAL HAPPINESS ABRIDGED SURVEY IN A SAMPLE OF COLLEGE STUDENTS IN THE UNITED STATES

Bartone, Anne* and Hammond, Marie; Advisor, Dr. Marie Hammond. Department of Psychology

P5 FAMILY LIFE EVENTS IMPACT ON MENTAL HEALTH OF UNDERGRADUATE STUDENTS ATTENDING A HISTORICALLY BLACK UNIVERSITY

Battle, Lisa* and Hammond, Marie; Advisor, Dr. Marie Hammond. Department of Psychology

- P6 ACCESSING RNA DEGRADATION BY COMPARING AMPLIFICATIONS OF SHORT TO LONG FRAGMENTS USING RT-QPCR Bohannon-Stewart, Ann* and Wang, Xiaofei; Advisor, Dr. Xiaofei Wang. Department of Biological Sciences
- P7 METHODS OF ANALYZING ECCENTRICALLY BRACED FRAMES Boyd, Omari* and Huff, Tim; Advisor, Dr. Tim Huff. Department of Civil and Environmental Engineering
- P8 CHARACTERIZATION OF NANOPARTICLES SYNTHESIZED IN THE PRESENCE OF POLYSACCHARIDES: THE SEARCH FOR THE NEEDLE IN THE HAYSTACK

Bradley, Ashley*, Vercruysse, Koen and Pennington, Marcus; Advisor, Dr. Koen Vercruysse. Department of Chemistry

P9 IDENTIFYING EFFECTS OF PERSONALITY TRAITS ON MUSIC SELECTION AND BEHAVIORAL TENDENCIES AMONG SCHOOL-AGED ADOLESCENTS

Brown, Johanna* and Hammond, Marie; Advisor, Dr. Marie Hammond. Department of Psychology

- P10 SUICIDE AND DELINQUENT BEHAVIOR TRENDS OF ADOLESCENTS IN A RURAL JUVENILE JUSTICE SYSTEM Buck Pursell, Kathryn* and Hammond, Marie; Advisor, Dr. Marie Hammond, PhD. Department of Psychology
- P11 EFFECT OF PARENTAL ALCOHOLISM ON OFFSPRING SELF-PERCEIVED FAMILY-OF-ORIGIN FUNCTIONING Bucknor, Carmen* and Hammond, Marie; Advisor, Dr. Marie Hammond. Department of Psychology
- P12 MITOGEN-ACTIVATED PROTEIN KINASE KINASE KINASE (MAP3K) AND GTPASE ACTIVITY IN HUMAN NATURAL KILLER (NK) CELLS EXPOSED TO DIBUTYLTIN (DBT) Celada, Lindsay* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Biological Sciences
- P13 EXPLORING THE COPING MECHANISMS OF CAREGIVERS FOR PARENTS RESIDING IN LONG-TERM CARE Chapman, Taylor*, Habib, Sally, Henderson, Jennifer and Bradshaw, Michelle ; Advisor, Dr. Michelle Bradshaw. Department of Occupational Therapy
- P14 EXPRESSED SEQUENCE TAG PROFILING OF THE GUINEA FOWL PANCREATIC FUNCTIONS Darris, Carl*, Tinnon, Ashley and Nahashon, Samuel; Advisor, Dr. Samuel Nahashon. Department of Biological Sciences
- P15 DESIGN OF A TWO-DIMENSIONAL TRUSS ANALYSIS PROGRAM USING VISUAL BASIC 2008 PROGRAMMING LANGUAGE Drake, James* and Mishu, Farouk; Advisor, Dr. Farouk Mishu. Department of Civil Engineering
- P16 ADVANCES IN NANO-TEMPLATE PRODUCTION USING PARTICLE LITHOGRAPHY Eakins, Kimberly*, Garno, Jayne and Verberne-Sutton, Susan; Advisor, Dr. Susan Verberne-Sutton. Division of Research and Sponsored Programs
- P17 CHANGING DIETARY PATTERNS AND EMERGENCE OF FOOD RETAILING IN INDIA: ISSUES AND CONCERNS Golkonda, Swetha Bangari* and Singh, Surendra; Advisor, Dr. Surendra Singh. School of Agriculture and Consumer Sciences

 P27 CHANGES IN THE PROTEOME AND METABOLIC PROFILES OF BROILER CHICKENS DURING ADIPOSE TISSUE ACCRETION Kelley, Gary*, Nahashon, Samuel, Chen, Fur-Chi and Stewart, Ann; Advisor, Dr. Samuel Nahashon. School of Agriculture and Consumer Sciences P28 ASSESSING INTERACTIVE RESPONSES IN LITTER DECOMPOSITION IN MIXED SPECIES OF SUGAR MAPLE, SCARLET OAK, AND TULIP TREE: A ONE YEAR STUDY Kiser, Diana* and Hui, Dafeng; Advisor, Dr. Dafeng Hui. Department of Biological Sciences P29 EFFECTIVENESS OF RESPONSE TO INTERVENTION WITH CHILDREN CONSIDERED AT-RISK FOR LEARNING DISABILITY Knowles, Martha* and Hammond, Marie ; Advisor, Dr. Marie Hammond. Department of Psychology P30 COMPARATIVE MOLECULAR MARKERS' BASED ANALYSES OF COTTON LINES Kommireddy, VL Sahithi* and Aziz, Ahmad; Advisor, Dr. Ahmad Aziz. School of Agriculture and Consumer Sciences 			
 PECTORACTERIUM ATROSEPTICUM Hageman, Bryan', Keney, Caleb and Dumenyo, C. Korai! Advisor, Dr. C. Korsi Dumenyo. School of Agriculture and Consumer Sciences P20 ABANDOMENT OF ASSISTIVE DEVICES FOR FUNCTIONAL MOBILITY WITH ADULTS EIGHTEEN AND OLDER WHO LIVE IN THEIR NATURAL HOME ENVIRONMENT Harris, Michael', Williams, Sherell, Catron, Laretia and Bradshaw, Michelle ; Advisor, Dr. Michelle Bradshaw. Department of Occupational Therapy P21 RELATIONSHIP BETWEEN TEST AWXETY AND ACADEMIC DEPROPMANCE Head, Shenita' and Hammond, Marie, Advisor, Dr. Marie Hammond. Department of Psychology P22 MIRACT OF GENDER ON STADDARDIZED TESTING: A META-ANALYSIS OF EXISTING STUDIES 1987-2007 Hendrix, Nicole' and Totter, Stephen', Advisor, Dr. Zon Stephen Trotter. Department of Psychology P23 MICROORGANISMS ASSOCIATED WITH AGARWOODS Jaha, Deaa', Ejelor, Anthony and Johnson, Terrance, Advisor, Dr. Terrance Johnson. Department of Biological Sciences P44 A STUDY OF MENTAL HEALTH AND CHILDHOOD SEXUAL ABUSE Johnson, Clydd and Hammond, Marie Advisor, Dr. Marie Hammond. Department of Psychology P25 ISOLATION OF TRANSPOSON MUTANTS IN HOST EXTRACTS INDUCIBLE GENES OF PECTOBACTERIUM CAROTOVORUM Johnson, Roodie', Agremang, Paul and Dumenyo, C. Korsi JAMson, Dr. C. Konsi Dumenyo, School of Agriculture and Consumer Sciences P44 P44, Marite, Marjorie, Morfleet, Anna, and Housel, Natalie ; Advisor, Dr. Natalise Housel. Department of Physical Therapy P26 P445, CL, THERAPY UTREVENTION WITH POST DEPARTIVE MENUNGOSCEL E AND MELDORENNOCOCELE Kachelman, Joseph', Morris, Marjorie, Morfleet, Anna, and Housel, Natalie ; Advisor, Dr. Samuel Nahashon. School of Agriculture and Consumer Sciences P26 P445, CL, THERAPY UTREVENTION AND AGRI SLOWERD SCHOLE PSCIES OF SUGAR MAPLE, SCARLET OAK, AND TU	P18		
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P38	FORGIVENESS AND SELF-AWARENESS IN MEN WHOSE SIGNIFICANT OTHER COMMITS AN ACT OF INFIDELITY Rackey, Joshua* and Hammond, Marie; Advisor, Dr. Marie Hammond. Department of Psychology
P39	DIBUTYLTIN EXPOSURE DECREASES PROTEIN KINASE D ACTIVITY IN HUMAN NATURAL KILLER CELLS Rana, Krupa* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Biological Sciences
P40	EFFECTS OF DIBUTYLTIN ON PROTEIN KINASE D ACTIVITY IN HUMAN NATURAL KILLER CELLS Rana, Krupa* and Whalen, Margaret; Advisor, Dr. Margaret Whalen. Department of Biological Sciences
P41	CROSS-SECTIONAL ANALYSIS OF NANOPARTICLE PATTERN ARRAYS Reynolds, Jonathan*, Hargrove, Dr. Samuel and Parker, Adriane; Advisor, Dr. Samuel Hargrove. College of Engineering, Technonology and Computer Science
P42	PROMOTION OF BALANCE IN CHILDREN THROUGH A WII BALANCE BOARD INTERVENTION: A PILOT STUDY Roach, Holly Beth*, Spivey, Jessica, Seaman, Kaitlyn and Snyder, Larry ; Advisor, Dr. Larry Snyder. Department of Occupational Therapy
P43	ARE NON HEALTHCARE STUDENTS MORE AT RISK OF BECOMING OBESE THAN ALLIED HEALTHCARE STUDENTS: A PILOT STUDY Ryan, Blake* and Snyder, Larry ; Advisor, Dr. Larry Snyder. Department of Occupational Therapy
P44	ASSESSING THREATS TO MUSSEL DIVERSITY WITHIN THE DUCK RIVER WATERSHED Skelton, Tyler* and Harrison, Robert; Advisor, Dr. Robert Harrison. School of Agriculture and Consumer Sciences
P45	EVIDENCE-BASED PRACTICE: A STUDY OF MIDDLE TENNESSEE OCCUPATIONAL THERAPISTS Southall, Ashley*, Kato, Cara and Snyder, Larry; Advisor, Dr. Larry Snyder. Department of Occupational Therapy
P46	CHARACTERIZATION OF STRAINS OF ERWINIA TRACHEIPHILA, THE PATHOGEN THAT CAUSES BACTERIAL WILT OF CUCURBITS Taylor, Sean*, Kersey, Caleb and Dumenyo, C. Korso; Advisor, Dr. C. Korsi Dumenyo. School of Agriculture and Consumer Sciences
P47	GROWTH CHARACTERISTICS AND PHYLOGENETIC STUDIES OF CHROMOBACTERIUM VIOLACEUM STRAINS ISOLATED FROM THE TENNESSEE COPPER BASIN Trabue, Sydnee*, Ejiofor, Anthony and Johnson, Terrance ; Advisor, Dr. Terrance Johnson. Department of Biological Sciences
P48	COMPARATIVE GENOMICS: HYPOTHALAMIC EXPRESSION OF TRANSTHYRETIN IN GUINEA FOWL Tyus, James*, Bonner, Niesha and Nahashon, Samuel ; Advisor, Dr. Samuel Nahashon. School of Agriculture and Consumer Sciences
P49	THE STUDY OF AGGRESSION IN COLLEGIATE AND NON-COLLEGIATE AFRICAN-AMERICAN MALES Vernon, Nichole* and Hammond, Marie; Advisor, Dr. Marie Hammond, Department of Psychology
P50	STROKE TREATMENT INTERVENTIONS Ward, Kathryn*, Siren, Emily, Eklund, Julie and Snyder, Larry. Advisor, Dr. Larry Snyder. Department of Occupational Therapy
P51	WATERSHEDS AND WATER QUALITY IN DAVIDSON COUNTY Reece, Michelle*. Advisor, Dr. Owen Johnson, Department of Public Health
P52	CREATING PUBLIC HEALTH LEADERS IN THE WIFI GEERATION Paul, Michael* and Massey, Krystal. Advisor, Dr. Owen Johnson, Department of Public Health
P53	EFFECTIVENESS OF INTERACTIVE GAMING VERSUS TRADITIONAL REHABILITATION METHODS IN BALANCE TRAINING POST STROKE Jordan, Kathryn*, Ashley, Bailey, Frick, Astin, and Turner, Terah; Advisor, Dr. Deborah Edmondson. Department of Physical Therapy
P54	SPATIAL MODEL OF SEVERITY RISK OF SOUTHERN MIDDLE TENNESSEE NURSERIES FOR PHYTOPHTHORA SPECIES Kilbourne, Katherine*; Advisor, Dr. Robert Harrison. School of Agriculture and Consumer Sciences
P55	POTASSIUM- A POTENTIAL BUFFER AGAINST CLIMATE CHANGE Lewis, Stephen*, and Kennedy, Steven; Advisor, Dr. Dharmalingam Pitchay. School of Agriculture and Consumer Sciences
P56	DOES THE RESPONSE OF BLUEBERRY DEVELOPMENT AND GROWTH DEPEND ON RIZOSPHERE PH AND SUBSTRATE Kennedy, Steven*; Advisor, Dr. Dharmalingam Pitchay. School of Agriculture and Consumer Sciences

Poster Presentations Monday & Tuesday, March 14-15, 9:00 – 4:30

FACULTY AND STAFF POSTERS

Poster Presentations will be in the Jane Elliott Hall, Auditorium

F1 EFFECT OF AGRICULTURE AND OTHER LAND USE ACTIVITIES ON THE COLLINS RIVER SUB-WATERSHE TENNESSEE Akuley-Amenyenu, Anonya* and Dennis, Sam. School of Agriculture and Consumer Sciences	
ET EFEET OF ACRICULTURE AND OTHER LAND USE ACTIVITIES ON THE COLUNC RIVER OUR WATERCIES	d in

- Ekanem, Enefick*, Adamu, Usman, Tegegne, Fisseha and Mafuyai-Ekanem, Mary. School of Agriculture and Consumer Sciences
- F3 MEAT GOAT MARKETING OPPORTUNITIES IN TENNESSEE Ekanem, Enefiok*, Singh, Surendra, Tegegne, Fisseha, Browning, Richard, Thompson, Cindy and Mafuyai-Ekanem, Mary. School of Agricultural and Consumer Sciences
- F4 A COMPARATIVE STUDY OF VEGETATION PHENOLOGY USING MODIS AND AMERIFLUX DATA Hui, Dafeng*, Chandola, Varun, Wilson, Corie, Gu, Lianhong and Vatsavai, Ranga Raju. Department of Biological Sciences
- F5 OCCURRENCE OF ANTIMICROBIAL RESISTANT E. COLI ISOLATED FROM SOIL AND ANIMAL MANURE Kilonzo-Nthenge, Agnes*, Rotich, Emily, Chen, Fur-Chi and Godwin, Sandria. School of Agriculture and Consumer Sciences
- F6 BIOLOGICAL CONTROL AGENTS AND HOST RESISTANCE CAN SUBSTANTIALLY REDUCE FUNGICIDE USAGE IN DOGWOOD POWDERY MILDEW CONTROL Mackasmiel, Lucas* and Mmbaga, Margaret; School of Agriculture and Consumer Science
- F7 EFFECTS APD AND PHONOLOGICAL PROCESSING ON COGNITIVE EFFORT Matlock, Valeria* and Fitzgerald, Mary. Department of Speech Pathology and Audiology
- F8 STAKEHOLDER GROUPS' PERCEPTION S OF BRIDGES COMMUNITY SERVICES Matlock, Valeria*, Fitzgerald, Mary Dale, Saliba, Jennifer and Tharpe, Tanesha. Department of Speech Pathology and Audiology
- F9 CHANGES IN METABOLIC PROFILES ASSOCIATED WITH FURAZOLIDONE-INDUCED CARDIOMYOPATHY IN GUINEA FOWL Nahashon, Samuel* and Hill, Kellee. School of Agriculture and Consumer Sciences
- F10 MORTALITY OF IMPORTED FIRE ANTS TO BIOPESTICIDE-TREATED SOIL IN LABORATORY BIOASSAYS Ochieng, Samuel*, Barlow, Abigael and Mrema, Frank. School of Agriculture and Consumer Sciences
- F11 TECHNIQUES TO MEASURE AMBROSIA BEETLE SEASONAL INCIDENCE AND DIURNAL FLIGHT TIMING AROUND NURSERIES

Oliver, Jason*, Eschenbacher, Victoria and Youssef, Nadeer. School of Agriculture and Consumer Science

F12 DIFFERENT ASPECTS OF INTERNET ADOPTION BY RETAILERS: COMPARISON OF HIGH AND LOW PERFORMED E-RETAILERS

Seo, Jung-Im*. School of Agriculture and Consumer Sciences

- F13 DO TSU STUDENTS ENROLLED IN THE HARD SCIENCES HAVE MORE FAVORABLE ATTITUDES TOWARDS BIOTECHNOLOGY THAN THOSE IN THE SOCIAL SCIENCE DISCIPLINE? Tegegne, Fisseha*, Aziz, Ahmad and Wiemers, Roger. School of Agriculture and Consumer Sciences and the College of Education
- F14 HISTOCHEMICAL DIAGNOSIS INVOLVING NORMAL AND ABNORMAL BETA CELL PRODUCTION IN THE PANCREAS Wofford Harlston, Lois*. Department of Biological Sciences
- F15 REVERSING DIABETES, AN ANALYTICAL MODEL INVOLVING TREATMENT, DIET AND MANAGEMENT Wofford Harlston, Lois*. Department of Biological Sciences
- F16 EVALUATION OF MANUKA AND PHOEBE OIL BAITED PURPLE STICKY TRAPS FOR THE CAPTURE OF BUPRESTIDS AND CERAMBYCIDS (COLEOPTERA) IN MIDDLE TENNESSEE Youssef, Nadeer*, Oliver, Jason and Basham, Joshua. School of Agriculture and Consumer Science
- F17 CONSUMER CONFIDENCE IN FOOD RELATED PRACTICES: IS IT A VALID MEASURE OF FOOD SAFETY? Godwin, Sandria*, Stone, R., Chen, F., and Kilonzo-Nthenge, A. Department of Family and Consumer Sciences, School of Agriculture and Consumer Sciences





Vanessa Jones-Briscoe, Ph.D., Speaker

School of Nursing Day

RESEARCH 101: HOW TO MAKE IT WORK FOR YOU

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. W	estbrook Building, 118
8:00 am	Registration and Continental Breakfast
8:30 am	Occasion by Dr. Carol Bompart, Chairperson
8:45 am	Welcome by Dr. Kathy L. Martin, Dean – School of Nursing
9:00 am - 9:30 am	MSN and BSN Poster Presentations
9:35 am - 11:15 am	Concurrent Sessions
11:15 am - 11:35 am	Presentation by Sponsors
11:40 am - 12:15	Luncheon
12:20 pm - 1:00 pm	Address
	Speaker - Dr. Vanessa Jones-Briscoe, Assistant Professor of Medicine,
	Vanderbilt University Medical Center



CONTEMPORARY AND PROFESSIONAL ISSUES IN PSYCHOLOGY

Tuesday, March 15, 2011

Schedule of Events James E. Farrell - Fred E. Westbrook Building, 118		
James E. Farrell - Fred	E. Westbrook Building, 118	
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

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James Stover, Ph.D., Speaker

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

Critical Thinking Workshop – AM Session
Luncheon
Speaker, – Dr. James Stover, Vice President of Operations,
Tennessee Technology Development Corporation
Critical Thinking Workshop – PM Session

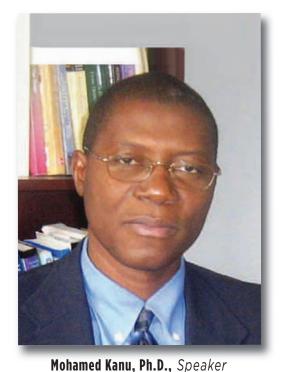
College of Health Sciences Day

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.

Schedule of Events Clement Hall, 165	
10:00 am – 12:00 noon	Poster Presentations
10:00 am – 12:00 noon	Departmental Sessions
12:00 noon – 1:00 pm	Luncheon. Speaker Dr. Mohamed Kanu, Assistant Professor, Department of Health Administration and Health Sciences, Tennessee State University

Wednesday, March 16, 2011







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. CLENTER FOR ACADEMIC EXCELLENCE 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.

OFFICE OF THE DIRECTOR OF NATIONAL INTELLIGENCE INTELLIGENCE COMMUNITY

IN INTELLIGINCE STUDIES



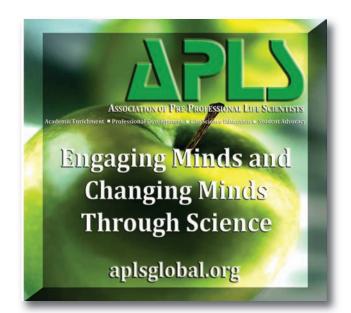
Thursday March 17, 2011

Schedule of Events James E. Farrell – Fred E. Westbrook Building, 118		
9:00 a.m. – 12:00 noon Critical Thinking Workshop - AM Session		
11:30 a.m.	Intelligence Community Information Booths Open (Information and Networking Opportunities with Exhibitors)	
12:00 noon - 1:00 p.m.	Luncheon Speaker - Darren Taylor, Central Intelligence Agency (CIA) Officer in Residence, Tennessee State University	
1:00 p.m 4:30 p.m.	Critical Thinking Workshop - PM Session	

APLS Day THE ASSOCIATION OF PRE-PROFESSIONAL LIFE SCIENTISTS

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 10	7
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 Bio	technology 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



Aramandia Ramesh, Ph.D., Speaker

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 Common Wealth 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			
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 andClosing RemarksDr. Carolyn Caudle, Symposium Co-Chair

Adjournment

2011



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 University 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

Sarabjit 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 Todd Gary, Research and Sponsored Programs Linda Lewis Goodman, Research and Sponsored Programs Princess, Gordon-Patton, Research and Sponsored Programs S. Keith Hargrove, Engineering, Technology and Computer Science Christianna Howard, APLS Pamela Hull, Center for Health Research Michael Ivy, Biological Sciences Owen Johnson, College of Health Sciences 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) E. Lewis Myles, Biological Sciences

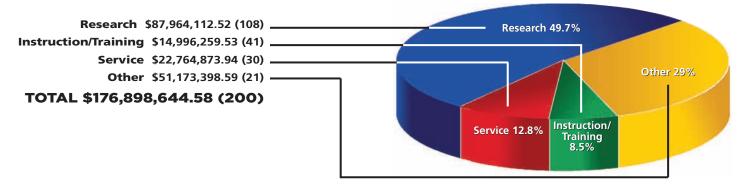
Yvonne Myles, Biological Sciences Marilyn Parks, Center for Academic Excellence and Intelligence Studies Belinda Patterson, Nursing John Robinson, Biological Sciences Moinuddin Sarkar, Physics and Astronomy David Shen-Miller, Psychology Cindy Thompson, Research and Sponsored Programs James Tyus, APLS Corrine Vaughn, Research and Sponsored Programs Susan Verberne-Sutton, Research and Sponsored Programs Abu N. M. Wahid, College of Business Stacie Yoquelet, Psychology

EX-OFFICIO MEMBERS

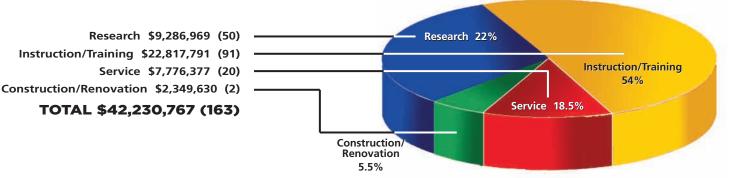
Maria Thompson, Ph.D., Vice-President, Research and Sponsored Programs
Gloria Johnson, Ph.D., Interim Dean, College of Arts and Sciences
Michael Freeman, Ph.D., Vice-President, Student Affairs
Brenda McAdory, Biological Sciences, (former Symposium Co-chair)
Valerie Williams, Center of Excellence for Learning Sciences, (former Symposium Co-chair)

Research and Sponsored Project Awards FY 2010

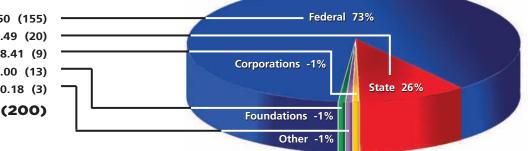
SUBMISSIONS BY PROJECT TYPE



AWARDS BY PROJECT TYPE

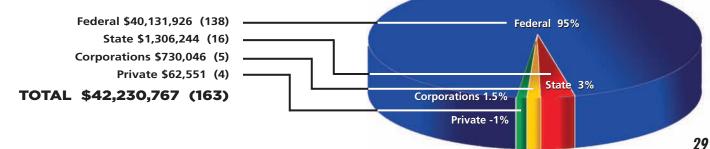


SUBMISSIONS BY SOURCE



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





Student Awards RESEARCH SYMPOSIUM

		al Presentation - Sciences (Morning)
First Place	TA8	Caleb Kersey
Second Place Third Place	TA6 TA3	Lakesha Glover Thea Boatswain
		al Presentation - Sciences (Afternoon)
First Place	TP19	Michael Knap
Second Place Third Place	TP13 TP14	Thyneice Taylor Paul Agyemang
First Place	re Stude RA7	ent Oral Presentation - Sciences
Second Place	RA7 RA5	Hartman Madu Felicia Udoji
Third Place	RAS	Eunice Ng
		5
First Place	WA1	al Presentation - Health, Education & Social Sciences
Second Place	WA1	J. Ballard, J. Studer, and A. Young Matthew Corn, Don Kallail, Darian Payne, and Terry Burlock
Third Place	WA4	Matthew Corri, Don Kanan, Danan Payne, and leny burlock Michael Davidson
	11/10	
Graduate Stu First Place	WP6	Akindoji Ojotola
Second Place	WP5	Akindeji Ojetola McKenzie McNeal
Third Place	WP8	Charles D. McCurry
		,
First Place	re Stude RP13	ent Oral Presentation - Engineering
Second Place	RP13 RP12	Carlton Cobb Carmen Hollingsworth
		ster Presentation - Agricultural & Consumer Sciences
First Place Second Place	P27	Stephen Lewis
Third Place	P29 P24	Stephen Lewis Niharika Ogha
		-
First Place	P39	ster Presentation - Biological Sciences Tromondae Feaster
Second Place	P39 P45	Olena McDowell
Third Place	P43	Carl Darris
First Place	P3	ent Poster Presentation - Biological Sciences
Second Place	P3 P2	Rachel Etherton Tamara Martin
Third Place	P4	Catherine Jackson
First Place	P47	ster Presentation - Chemistry
		Lindsay Celada
		ent Poster Presentation - Chemistry
First Place	P11	Murcellus St. Louis
		ster Presentation - Health Education & Social Sciences
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
		ent Poster Presentation - Health Education & Social Sciences
First Place	P17	Alex Frederick
Second Place	P16	Gia Barden, Megan Hudson, Salome Ranson, Holly Sipes, and Kera Taylor
Third Place	P18	Amber Clayborne
		ent Poster Presentation - Engineering
First Place	P14	Gary Moore, Jr.
Second Place	P13	Chanthavone Keobounhom
Third Place	P15	Peter Riad and Thanu Meena
Ora	l Presei	ntations Poster Presentations

2 0 1 0

1st Place - \$150 • 2nd Place - \$75

3rd Place - \$25



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/advisor 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 Calada

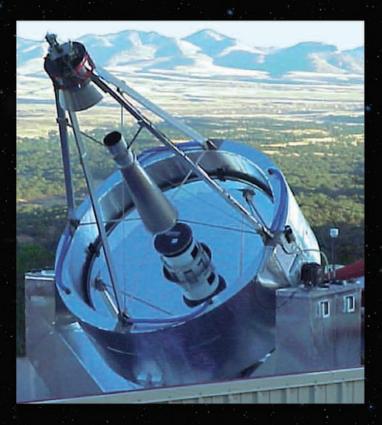
Undergraduate Poster Presentation—Biological Sciences 1st Place, Rachel Etherton 2nd Place, Tamara Martin

Graduate Oral Presentation—Sciences 2nd Place, Thyneice Taylor and E. Kimbakaya

Undergraduate Oral Presentation—Sciences 2nd Place, Felicia Udoji

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

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



MILLION DOLLAR CLUB CELEBRATES RESEARCHERS AWARDED \$1,000,00 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

Ronnie Brooks, MSCE

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.





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

Pamela C. Hull, Ph.D.

health interventions to prevent and detect cancer and obesity and to reduce racial/ethnic health disparities. She conducts communitybased participatory research with community partners in the Hispanic and African American communities.



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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.

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 Katari Coleman, M.Ed. is currently working on her

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.

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