RE**SEARCH** 

September | 2019

## **University of Memphis Receives** \$1.89 Million to Combat Opioid Faculty across campus will lead the two

grants The University received two grants from the Health Resources and Services Administration (HRSA) of the U.S.

Department of Health and Human Services to train future behavioral health services providers in substance abuse and opioid treatment. Three professors in psychology – **Dr.** 

Meghan McDevitt-Murphy (principal investigator), Dr. James Murphy and Dr. Frank Andrasik – received a Graduate Psychology Education (GPE) grant. The GPE will provide support to clinical psychology doctoral students who focus on learning therapy techniques for substance use disorders with an emphasis on opioid addiction. Partners for this grant include the

UT Health Science Center for Addiction is \$991,446.

Science and Church Health. The total award The second grant, an interdisciplinary team received an Opioid Workforce Expansion Program (OWEP) Paraprofessionals award from HRSA to establish the Memphis Opioid Workforce Paraprofessional Expansion training and stipends to undergraduate

Program (MOW-PEP). This grant will provide students from counseling, criminal justice, human services, psychology and social work who complete a certificate in substance abuse with an emphasis on opioid addiction. Dr. Melissa Hirschi (principal investigator) of the School of Social Work is leading this grant in collaboration with **Dr**. Michelle Brasfield and Dr. Stephen Zanskas, Department of Counseling, Educational Psychology, and Research; Dr. **Deranda Lester**, Department of Psychology; Dr. James McCutcheon, Department of Criminology and Criminal Justice; and Dr.

Susan Neely-Barnes, School of Social Work. Partners for this grant include Church Health, Case Management, Inc., the Memphis Area Prevention Coalition, the Hospitality Hub, the Wellness & Stress Clinic and Quinco Community Mental Health Center Inc. The total award is \$897,342. Read full press release here. **UofM partnering with UTHSC on Adverse Childhood Experiences** Research Call for Proposals

**Purpose**: To stimulate innovative, interdisciplinary, team-based adverse childhood experiences research (inclusive of T0 to T4), that involves investigators from University of Tennessee Health Science Center (UTHSC) and University of Memphis. The Award is designed to promote new lines of research and provide seed money to give rise to future external funding. It is not intended as bridging funds or a mechanism to extend ongoing funded research. **Timeline**: Submissions are due by Monday, Sept.16, 2019. For more information about applying, visit our website. Review: Submitted proposals will be

For questions, contact: Lisa Youngentob, director - Research Development, <u>lyoungen@uthsc.edu</u> Cody Behles, associate director - Innovation and Research Support, cbehles@memphis.edu To view the guidelines or to apply, visit the

Research and Innovation website.

reviewed by a committee chosen by the

A year-end progress report will be due at the

UTHSC/UofM leadership.

close of the grant.

Director Speaks on **Political Activist** Legacy Shedding light on Ida B. Wells Daphene R. McFerren, executive director of

the Benjamin L. Hooks Institute for Social

Change, was recently featured in an August

2019 article by Politifact, a Pultizer winning

website at the Poynter Institute, which fact-

**Benjamin L. Hooks** 

checks websites for their accuracy. Relying on interviews with McFerren, a *New York* Times reporter, and a noted historian, Politifact analyzed the historical context in which Ida B. Wells (1862-1931), a civil and women's rights activist, lived to show inaccuracies in a viral Facebook post that alleged Wells's contributions were being ignored because she was a Republican.

McFerren is an executive producer of a documentary on the life of Ida B. Wells produced by the Hooks Institute. The film is

expected to be completed this fall. To read

more about the Hooks Institute, visit their

website.

Receives

treating

\$300,000 Grant

Research focus on

atherosclerosis

the full article in Politifact, view here. To learn

**UofM Professor** 

National Geographic

**Lands Grant with** 

Global impact of UofM research **Dr. Keri Brondo**, Department of Anthropology Chair and Professor, has been awarded a \$31,800 grant from the National Geographic Society's Committee for Research and Exploration. The project, "Our Voices: Bridging the Gap between Conservation and Cultural Heritage on Utila, Honduras," is a community-led documentary about Utila that aims to unite conservation efforts and local cultural history. With this funding, the project will give international awareness to Utila's cause and educate future generations on its culture. **UofM School of Health Studies Professor** 

**Dr. Brandt Pence**, associate professor in the

American Heart Association. The three-year,

\$300,000 grant will allow Pence to examine

how the regulation of mitochondrial function

cardiovascular disease. Co-investigators and

(University of Washington), Dr. Robert Read (University of Memphis) and Dr. Thomas

(OEMs) used the services of the Integrated Microscopy Center (IMC) for quality control of some of their products. This analysis was

performed by energy dispersive

spectroscopy and scanning electron

microscopy. By combining these two

methods, it was possible to map the

obtain valuable information about the

efficiency of the production process.

The IMC is a fee-for-service, shared

instrumentation, technical support and

education to the University of Memphis

research community, as well as to other regional academic institutions and industries.

To learn more about the IMC, visit the

**New Research Awards** 

Dr. Meghan McDevitt-Murphy, professor in the Department of Psychology, was awarded \$991,446 from Health Resources and

Services Administration (HRSA) for her

Dr. Melissa Hirschi, assistant professor in the School of Social Work, was awarded

project "Building the Memphis Opioid Workforce - Graduate Psychology Education."

\$897,342 from Health Resources and Services Administration (HRSA) for her

project "Memphis Opioid Workforce

Single Step Meta and Para C-H

the Department of Instruction and

Research, & Language Alliance (UMBReLA)."

\$300,000 from the American Heart

immuno metabolic regulator to treat

Dr. Loretta Rudd, clinical associate

Urban Child Institute for her project "Continuation of Coordinated Effort to

**Dr. Laura Casey**, professor in the

Association for his project "Mdivi-1 as an

professor in Child Development and Family Studies, was awarded \$283,512 from The

Enhance Development (CEED): Childcare

Department of Instruction and Curriculum

DoEd) in collaboration with the Tennessee

Department of Education (TDoEd) for her project "TEIS vendor services - provision of

statewide early intervention services to

birth through two years of age."

awarded \$247,609 from the U.S.

collaboration with the Tennessee

project "Land Use."

eligible infants & toddlers with disabilities

**Dr. Sabya Mishra**, associate professor in the Department of Civil Engineering, was

Department of Education (U.S. DoEd) in

Department of Education (TDoEd) for his

Dr. Gregory Washington, professor in the School of Social Work, was awarded

Leadership (ICL), was awarded \$250,000 from the U.S. Department of Education (U.S.

Directors, Childcare Teachers, Parents, and Young Children."

Functionalization.

atherosclerosis."

website.

August 2019

research facility offering high-end

distribution of chemical elements on the surface of the product of interest and to

consultants on the project include Dr. Liza

Makowski (University of Tennessee Health Science Center), Dr. Daniel Raftery

School of Health Studies, received a

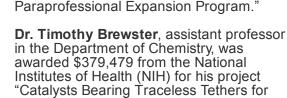
in macrophages can be used to treat

atherosclerosis, a leading cause of

**Sutter** (University of Memphis).

Transformational Project Award from the





**Dr. James Meindl**, associate professor in

Curriculum Leadership (ICL), was awarded \$330,651 from The Urban Child Institute for his project "University of Memphis Behavior,

**Dr. Brandt Pence**, assistant professor in the School of Health Studies, was awarded

\$232,935 from The Urban Child Institute for his project "Lifelong Initiative for Family Empowerment." **Dr. Kathryn Ramsey**, assistant professor in the Cecil C. Humphreys School of Law, was awarded \$229,273 from The Urban Child Institute for her project "Memphis Legal Partnership." Dr. Michail Gkolias, associate professor in the Department of Civil Engineering, was awarded \$200,000 from the U.S. Department of Education (U.S. DoEd) in

Department of Education (TDoEd) for his

Dr. Katie Howell, associate professor in the

(TUCI) for her project "Promoting Resilience

Dr. Katie Howell, associate professor in the

(TUCI) for her project "Promoting Health and Well-being in Children and Families:

Evaluating a Prenatal Intervention Program."

Department of Health (TDoH) for her project

"Lowenberg College of Nursing - Lactation

**Dr. Genae Strong**, associate professor in the Lowenberg College of Nursing, was

awarded \$148,000 from the Tennessee

Department of Psychology, was awarded

\$190,923 from The Urban Child Institute

Prevention Technologies and Systems."

Department of Psychology, was awarded

\$193,259 from The Urban Child Institute

in Memphis: An Outcome Evaluation of

Being of Urban Children."

Support Program.

iIMPACT Services for the Health and Well-

collaboration with the Tennessee

project "Investigation on Wrong-way

**Dr. Shahram Pezeshk**, chair and professor in the Department of Civil Engineering, was awarded \$134,955 from the U.S. Department of Education (U.S. DoEd) in collaboration with the Tennessee Department of Education (TDoEd) for his project "Development of a New Attenuation Model for West Tennessee." Samuel Acuff, Dr. James Murphy's student, in the Department of Psychology was awarded \$107,265 for a pre-doctoral

fellowship from the National Institutes of Health (NIH) for his project "Integration of Electrophysiological and Behavioral Economic Models of Reward Among Heavy

Dr. Maryam Salehi, assistant professor in the Department of Civil Engineering, was awarded \$75,358 from Tennessee Water Resources Research Center for her project

"Investigate Industrial Facilities Storm Water

Dr. Angela Madden, associate professor in

the Department of Criminology and Criminal Justice, was awarded \$50,423 from the U.S.

collaboration with the City of Memphis Police Department (CMPD) for her project

**Dr. Aaron Robinson**, associate professor in the Department of Electrical and Computer

Engineering (EECE), was awarded \$50,000

project "Novel Image and Signal Processing

**Dr. Eunseo Choi**, associate professor in the

from Sivananthan Laboratories for his

Center for Earthquake Research and

Modeling of Tectonic Processes 2019.'

Information (CERI) was awarded \$49,983 from the National Science Foundation (NSF)

for his project "Workshop Proposal: Analog

Dr. Michail Gkolias, associate professor in

Embedded System Development."

"Memphis Crime Gun Intelligence Center."

Quality and SWPPP Performance."

Department of Justice (U.S. DOJ) in

Drinking Emerging Adults."

the Department of Civil Engineering, was awarded \$38,804 from the U.S. Department of Education (U.S. DoEd) in collaboration with the Tennessee Department of Education (TDoEd) for his project "SHRP-II WISE." Dr. Carolyn Kaldon, research associate professor in the Center for Research in Education Policy (CREP), was awarded \$26,940 from Promise Academy Inc. for her project "Closing the Gap in Literacy with Leveled Literacy Intervention LLI at Promise Academy Hollywood." Dr. Todd Zoblotsky, research associate

professor in the Center for Research in

Educational Policy (CREP), was awarded

\$25,035 from Memphis Education Fund (MEF) for his project "TN Charter School

**Dr. Richard Bloomer**, dean and professor in the School of Health Studies, was awarded \$24,588 from Resync, LLC for this project

"Blood nitrate/nitrite concentrations following

**Dr. Dale Bowman**, associate professor in

the Department of Mathematical Sciences, was awarded \$17,550 from the Tennessee Board of Regents (TBR) for her project

**Dr. Susan Elswick**, associate professor in the School of Social Work, was awarded

collaboration with the United Way of Greater Memphis for her project "ACES Building Stronger Brains Tennessee."

Dr. Brian Waldron, associate professor in the Department of Engineering, and director of the Center for Applied Earth Science and

Samuel Peter, Dr. James Whelan's student,

awarded \$800 from the National Center for

At-Risk Gamblers in an Online Assessment?"

Rory Pfund, Dr. James Whelan's student, in

the Department of Psychology, was awarded

Responsible Gaming for his project "Is More

Responsible Gaming for his project "Can Motivational Messages be Used to Engage

Engineering (CAESER), was awarded \$16,100 from the City of Bartlett for his project "Bartlett GW Support."

in the Department of Psychology, was

\$395 from the National Center for

Better? A Meta-Analysis of Dose and

Efficacy in Face to Face Psychological Treatments for Gambling Disorder?

\$17,347 from the State of Tennessee in

"Course Revitalization for Math 1530:

Teaching Statistics with Social Justice."

Center Unified Enrollment."

acute ingestion of Resync."

\* Data is reported on the 18th of each month. Any awards finalized after the 18th of each month will be reported in the following month's report. RESEARCH **CLUSTERS** 

AGRICULTURE & FOOD TECHNOLOGIES

BIOLOGISTICS

**CAST** 

DATA SCIENCE

**DRONES** 

**Research Division Honoring** 

Researchers are invited to join us for a

Dr. Art Graesser, professor of

• Dr. Andrew Meyers, professor of Psychology and former VP of

Deborah Hernandez, AVP for

The event will take place at the FedEx Institute of Technology (FIT) Fishbowl

(203/205), located on floor 2.

Sciences):

areas):

Psychology & Institute for Intelligent

Research and Sponsored Programs

retirement reception honoring:

Systems

Research

Sept. 9 | 4 PM | FIT Fishbowl (203/205)

**New Teams for Research Development & Sponsored Programs** Location: Admin Bldg., 215 & 315 Faculty are reminded that the following are our new leaders at the Offices of Research Development and Sponsored Programs. Research Development (Life

> Francoise Mireles, x5327 fmreles1@memphis.edu

 Research Development (Social) Sciences / Health / Education): Teresa Franklin, x4911 tjfrnkin@memphis.edu

• Research Development (all other

Cody Behles, x2470

• Sponsored Programs (*Pre-Awards*):

Stephanie Thompson,

 Sponsored Programs (Contracts/Awards): Ty Flores,

**NEWS TO FEATURE IN THE** 

**RESEARCH + INNOVATION** 

award notifications, conferences to be held at the UofM, honors,

**NEWSLETTER?** 

**CONTACT US** 

<u>cbehles@memphis.edu</u>

x4146 sthmps24@memphis.edu

x5071 ctflores@memphis.edu

publications, research impact stories, initiatives, etc., for inclusion ++++ in an upcoming issue of the newsletter. We look forward to sharing the world-class ++++ accomplishments taking place at the University of Memphis.

**Memphis Game Developers** 

Back-to-School Game Jam

Technology, created five projects, including two virtual reality (VR) projects.







reflect a 26% increase in unique protocol submissions with 571 protocols in FY2018 and 722 in FY2019. For FY2019, the average time for review of exempt, expedited and full board reviews as well as determination reviews was 8.12 days. Faculty, staff and students are required to submit to the IRB for review of human subjects research, followed by submitting modifications when your research changes, submitting for renewal if your approval expires and submitting for

Tuesday, Oct. 1 | 5-7 PM Do you have a current or potential research project, or outreach activities that involve children or teachers? The University Schools are laboratory schools that provide opportunities for research partnerships and activities for children and teachers preK-8th grade. At the University Schools Research Consortium (USRC) Launch, you will learn how to get a project or research activity approved at a University School, hear about our new 2019 grant writing incentives, find out what educational research priorities the schools have, and form networking contacts with senior researchers at the University of Memphis, as well as University Schools and community partners. The evening will include opening remarks by President M.

involved with the USRC and a reception

where interested partners can meet and talk with current USRC scholars.

(carolyn.kaldon@memphis.edu), chair of

Contact Dr. Carolyn Kaldon

TRAINING

Society of Research

(SRAI)

2-Day Training

administration.

the University Schools Research Consortium, for more details or to be added to the email invitation list.

> companies using patented intellectual property. » Salary and benefits for two years » Funds for initial startup costs » And more... **APPLY TODAY**

**Ultrasonic Dispersion of Cohesive** Powders, was licensed to the University of Minnesota. The technology is related to aerosol science and technology, powder technology and spray-based additive manufacturing.

**UofM Licenses Four New** 

The Office of Technology Transfer,

Ranga Gopalakrishnan, assistant

Support, developed by Dr. Susan

of Social Work.

Engage, Green Living and Caregivers

through the FedEx Institute of Technology, has signed agreements to license four

new technologies. These technologies include Ultrasonic Dispersion of Cohesive

Powders, invented and developed by **Dr.** 

professor in Mechanical Engineering, and

**Elswick**, associate professor in the School

**Research Technologies** Expanding Commercialization

**Engage** Technology is a cloud-based data collection system that offers real-time data collection capabilities and dynamic reporting opportunities for the user. The Engage system is a data collection tool that allows pedagogical practitioners to gather live data on any student in the classroom for up to three behaviors per student. **Green Living** Technology is an app that allows individuals to plot their green living

activities and community concerns on a map so they will be geo-located. This allows for better planning and support of green living along with demonstrating to UofM students, faculty and the surrounding areas how to have sustainable green living practices. Caregivers Support Technology is a parenting app that answers the many

questions parents have about common behaviors such as sleeping, eating and emotional regulation, all provided from a developmental and function-based lens. This app is designed to assists caregivers in improving child behavior, developing healthy social/emotional literacy and enhancing the parent-child bond. Engage, Green Living and Caregivers Support were licensed to Engage Data

System LLC based in Cordova, Tenn. Engage Data Systems is a cutting-edge data collection and reporting company. Read the full press release <u>here</u>. **UMRF Ventures Funds Four** 

Memphis. These awards represent UMRF's first dividend investment. The inaugural recipients, **Dr. Anita Boykins**, associate professor in the Loewenberg College of Nursing; Dr. Brian Waldron, associate professor in Civil Engineering; **Dr. Nate DeYonker**, assistant professor in Chemistry; and Dr. Susan **Neely-Barnes**, professor and chair in Social Work, will hold the UMRF

Professorship for two years and will

support their research and sponsored programs activities. The honorees were

recently awarded these during the fall

general faculty meeting held in August.

visit their website.

For more information on UMRF Ventures,

SameDay Bot "Roxo" hit the streets of the **UofM** Memphis one of four initial cities selected for pilot testing

The FedEx Institute of Technology (FIT) is

working with FedEx to bring autonomous

Memphis. Roxo, an autonomous delivery

robot, along with the development teams from FedEx and <u>DEKA</u> Research and

Development Corp., have been parked at

last-mile delivery to the University of

Memphis, along with Manchester, N.H., and Plano and Frisco, Texas, were selected for initial testing of the delivery program. Retailers plan to use the FedEx SameDay Bot to make nearby customer deliveries. Three UofM **Colleges Bring** First Cohort of **Urban STEM** Scholars to Campus **UofM** leads

UofM, the University of Colorado-Denver

and Indiana University-Purdue University

Indianapolis to provide academic, social, professional and peer networking; career

preparation; and scholarship support to

As a result, the PI team from the UofM

Arts & Sciences and College of

Herff College of Engineering, College of

Communications and Fine Arts recently

**Scholars** to campus. The collaboratory

will generate new knowledge in STEM

education by investigating a variety of

of students in their development of a

STEM identity--the lack of which is a

welcomed the first group of Urban STÉM

mechanisms for supporting a diverse set

mathematical sciences majors across the

approximately 150 engineering and

three institutions.

Grant

fundamental reason students often select out of STEM majors and careers. For more information on the grant, read the full press release <u>here</u>. **UofM's Ali Presents** Research to Google Logistics Team Event yields robust discussion of CAST's work **Dr. Hasan Ali**, associate professor in the

College of Education Welcomes Guest Speaker, Dr. Odis Johnson Friday, Sept. 13 | 9:30 AM | FIT Methodist Presentation Theatre (103) Please join the College of Education as we welcome Dr. Odis Johnson for "Broadening Participation: Research Isn't Done In a Vacuum" on Friday, Sept. 13, 9:30 a.m. in the Methodist Presentation Theatre, located on the first floor of the FedEx Institute of Technology. Johnson is a professor in the Departments of Sociology and Education, director of the NSF Institute in Critical Quantitative Computational, and Mixed Methodologies,

To learn more about Ali's research, view

equipment with interested faculty at the University of Memphis. For further information, please contact Abell at anabell@memphis.edu. **PATENT** SPOTLIGHT

Dr. Amy Abell, assistant professor in the

Department of Biological Sciences, was

awarded \$87,490 from the National Institutes of Health (NIH) for her purchase of a Bio-rad QX200 Droplet Digital PCR

machine. This equipment enables the

alleles from small samples. The QX200 has been installed in the Life Sciences

precise quantitation of transcripts and rare

Building. Abell is committed to sharing this

dialog assessment techniques, video capture and analysis of the student's face, determination of the body posture of the student, pressure on a pressure sensitive mouse, and pressure on a pressure sensitive keyboard. For more information on UofM technologies available for commercialization, visit the tech transfer website or contact Dr. Hai Trieu hhtrieu@memphis.edu.

As reported by **Beverly Jacobik**, sr. associate director of Research Compliance, Institutional Review Board (IRB) protocol review numbers culled from Cayuse IRB reporting shows a dramatic

Sept 11 | 6-8 PM | FIT 225 MemDevOps Meetup Sept 11 | 2-4 PM | FIT 225 MemPASS/Power BI Meetup Sept 12 | 5:30-7:30 PM | FIT 225 College of Ed Speaker Series: Dr. Odis Sept 13 | 9:30 AM-12 PM | FIT Zone Memphis Python User Group Meetup Sept 16 | 6:30-8:30 PM | FIT 225 APLU Talk with Shalin Jyotishi Sept 23 | 12-2 PM | FIT Fishbowl (203/205)Memphis PHP User Group Meetup Sept 24 | 6:30-8 PM | FIT 225 Memphis Agile Meetup-Open Space Sept 26 | 6-7:30 PM | FIT 225 Organizational Change Management

SAS Programming 1: **Essentials** Sept 9-11 FIT 225

**Administrators International** 

The University of Memphis will host the

Society of Research Administrators International (SRAI) for a two-day training session Nov. 14-15. The training will cover

topics related to grants and research

For more information regarding the

**Professorships** Honors faculty with achievements in sponsored research UMRF Ventures, a wholly-owned subsidiary of the University of Memphis Research Foundation (UMRF), has awarded four UMRF Ventures Professorships to the University of

device and utilizes software and sensors to steer and navigate various environments. collaboration of three universities

Herff College of Engineering, is doing exciting research with the <u>CAST – Cluster</u> to Advance cyber Security & Testing.
Earlier this month, Ali had the opportunity to present his work to a visiting Google Logistics Team. His presentation entitled "Smart Grid Cybersecurity and Mitigation

the Study of Race, Ethnicity and Equity at Washington University in St. Louis. He also is a faculty scholar at the Institute of Public School of Social Work, both at Washington the African American Studies Department at the University of Maryland. RSVP to this

**Title**: Affect-Sensitive Intelligent Tutoring

**Inventors**: Dr. Arthur Graesser and Dr.

**Abstract**: The invention is an Intelligent

25% increase in protocol reviews between FY2018 and FY2019. These reviews

Certification Program Sept 26 | 6-7:30 PM | FIT 225

training or to register, contact Latica Jones at <u>lmjons10@memphis.edu</u> by Sept. 10. **ENTREPRENEURIAL** 

**DEEP SCIENCE POST** 

Science-based patents often require more research for commercialization. The University of Memphis is shifting the innovation paradigm with a new program that enables post doc fellows to start their own

the FIT for several weeks mapping and performing initial testing on the latest in emerging technology at the company. The

activity at the UofM

closure when your work with human subjects is complete. Thank you for increasing your research and your

**University Schools Research Consortium Launch Party and** Reception

bot test started the last week of August at the FedEx Institute of Technology and traversed a route to the FedEx Office on Poplar Avenue utilizing primarily sidewalks. Testing will continue the first week of September on a downtown Memphis route. Roxo is an autonomous

infiltrate a smart grid system and then put that system at risk, ultimately causing it to weaken and fail. All emphasized the need for innovative solutions for cyber-attacks on power grids. This led to a dynamic discussion among the audience members and the Google Logistics Team. The discussion that rounded out the event was very much in the spirit of CAST– bringing people together to collaborate and innovate.

his <u>publication here</u>.

event here.

**Grant to** 

**Purchase** 

Equipment Offers precision

measurements

**UofM Professor** 

**Receives NIH** 

**New Patent Received:** U.S. Patent No. 10,388,178 Issued: August 20, 2019

System

Sidney Keith D'Mello

OMPLIANCE & **Research Compliance** A testament to increased research

compliance! To contact the Research Compliance office, email researchcompliance@memphis.edu. **CALENDAR** 

+++ We welcome the opportunity to highlight the research infrastructure and innovation capabilities at the University of Memphis. Email major

designing and creating one or more games within a short span of time. Typically, game jams usually range between 24 and 72 hours, some even longer. Participants included programmers, game designers, artists, writers and others in game development-related fields. This year's event, sponsored by Mind Over Data and the FedEx Institute of

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**University of Memphis Research + Innovation Magazine Leading Through Innovation** Read Here » THE UNIVERSITY OF MEMPHIS.

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emma

**(1)** (1)

across the U.S. collaborating on NSF The University of Memphis was one of three urban universities to receive a portion of a \$5 million grant last year from the National Science Foundation's (NSF) Scholarships in Science, Technology Engineering and Mathematics (S-STEM) program. The funding supports the Urban S-STEM Collaboratory project, which brings together engineering and mathematical science departments at the

Strategy," focused on current cybersecurity issues as they relate to the power grid infrastructure. His presentation pointed out the ways in which an intruder could

and associate director of the Center for Health, affiliated faculty at the Brown University. Prior to his appointments at Washington University, Johnson chaired

Tutoring System (ITS) system that is able to identify and respond adaptively to the learner's or students affective states (i.e., emotional states such as confusion. frustration, boredom, and flow / engagement) during a typical learning experience, in addition to adapting to the learner's cognitive states. The system comprises a new signal processing model and algorithm, as well as several nonintrusive sensing devices, and identifies and assesses affective states through

<u>DevMemphis Meetup</u> Sept 3 | 6-7:30 PM | FIT 227 Retirement Reception honoring Dr. Art Graesser, Dr. Andrew Meyers, Deborah Hernandez Sept 9 | 4-6 PM | FIT Fishbowl

SAS Programming I: Essentials

Sept 9-11 | 8 AM-5 PM | FIT 225

Sept 10 | 6-8 PM | FIT 225

Memphis Game Developers

<u>Meetup</u>

Memphis Web Workers User Group

David Rudd, information on how to get

FedEx. THE UNIVERSITY OF MEMPHIS

Participants recently gathered at the FedEx Institute of Technology for a weekend of innovation to hold their annual GAME JAM. The game jam is a hackathon traditionally focusing on video games. It can also include board games, focused on planning,