

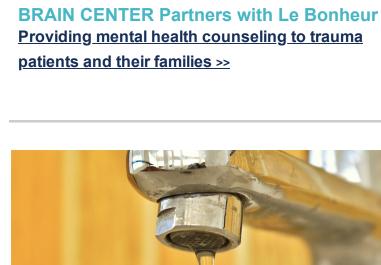
## INNOVATION NEWSLETTER RESEARCH. TECHNOLOGY. ACHIEVEMENTS.

## February 2021 • COVID-19 Updates



School of Public Health highlights change in behaviors based on policies >>

**Measuring Mask Use in Shelby County** 

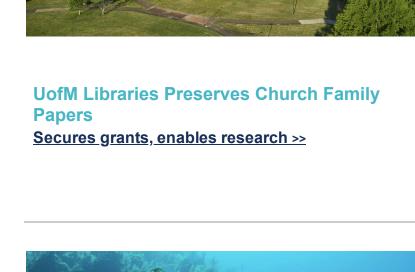


<u>healthier drinking water >></u>

**Addressing Lead Presence in Aging** 

Research seeks to improve processes for

Infrastructure



Fishing Livelihoods & Lionfish Markets in

Brondo receives National Geographic grant,

expands opportunities for women >>

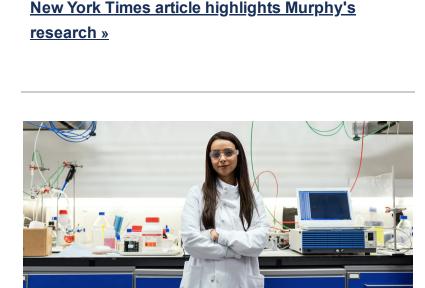
**Utila Cays** 

**Pandemic** 

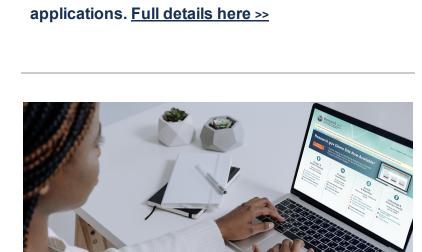
**Gap/Bridge Grants** 

Andrea Izaguirre after a successful lionfish hunt. Izaguirre leads BICA's lionfish

certification program. Photo courtesy of Bay Islands Conservation Association



**Alcohol Use Challenging to Manage During** 



Internal funding opportunity, now accepting



RESEARCH CELEBRATION

**Research Celebration 2021** 

Feb. 26 | 3 PM | Zoom

Please contact your proposal specialist in OSP or pre-

proposals via research.gov.

award coordinator for more information about submitting



**Navigating SBIR/STTR** Learn about how to pursue Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR), establishing a company, and leveraging these

Learn about the technology transfer process including

and other important ways to protect your research.

when to file an invention disclosure, how to file a patent,

resources to grow your research capacity. (Instructors – Dr.

**Research Development Training** 

Gary Emmert & Dr. Paul Simone)

Feb. 4 | 2:30 PM | **Zoom** 

**Tech Transfer Overview** 

(Instructor – Dr. Hai Trieu)

Feb. 11 | NOON | **Zoom** 

February 2021

1:1:1:1:

**NSF Funding Opportunities** Learn about the overview of NSF activities and its grant making process, with a particular emphasis on funding opportunities in the social, behavioral, and economic sciences. (Instructor/guest speaker – Dr. Deborah H. Olster, NSF Program Office) Feb. 17 | 1:30 PM | **Zoom** 

Yuelin.Z@memphis.edu.

January 2021 Dr. Chris Cramer, research professor in the

Research **Awards** 

Center for Earthquake Research and Information, was awarded \$94,482 from the U.S. Geological Survey for his project "Alaska Lg Tomography, **Ground Motion Intensity** Correlation Equation Development, and Subduction and Crustal GMM Alaska Regional Adjustments." Dr. Thomas Goebel, assistant professor in the Center for Earthquake Research and Information, was

awarded \$76,642 from the U.S. Geological Survey for his project "Experimental Constraints on **Preparatory Processes** and Seismic Velocity Changes before Induced Slip: Collaborative Research between the University of Memphis and University of California Berkeley." Dr. Gerald Chaudron, head of special collections in University

Libraries, was awarded \$2,500 from the Tennessee Historical Records Advisory Board with the National **Historical Publications** and Records Commission for his project "Church Family Papers Preservation Project." December 2020

Dr. Kevin Berisso, assistant professor and AutoID lab director in the Department of Engineering Technology, was awarded

\$1,013,896 from the U.S. Department of Labor for his project "Workforce Opportunity for Rural Communities (WORC) / DRA: Automation and **Advanced Robotics** Center." Dr. Ranganathan Gopalakrishnan, UMRF Ventures assistant professor in the Department of Mechanical Engineering,

was awarded \$750,695

Department of Energy for

from the U.S.

his project "Thermodynamics and Transport Models of Strongly Coupled Dusty Plasmas." Dr. Duane McKenna, professor in the Department of Biological Sciences, was awarded \$271,634 from Texas A&M University with the **National Science** 

Foundation (NSF) for his

project "Multidisciplinary Approach to Baioacoustics: Integrating phylogenomics, biophysics, and functional genomics to unravel the evolution of hearing and singing in katydids, crickets, and allies." Dr. Michail Gkolias, professor in the Department of Civil Engineering, was awarded \$123,208 from Florida Atlantic

University with the U.S.

Transportation for his

projects "FMRI 2020-21

Department of

Admin" and "Optimal refueling gas station locations in postevacuation conditions." Dr. Sabyasachee Mishra, associate professor and Faudree professor in the Department of Civil Engineering, was awarded \$100,465 from Florida Atlantic University with the U.S. Department of Transportation for his project "Evaluating the

Adoption and Impact of

Autonomous Delivery

Technologies."

Dr. Marian Levy, associate dean and professor in the Division of Social and Behavioral Sciences, was awarded \$75,000 from the Shelby County Health Department for her project "Evaluating Public Compliance with COVID-19 Response Directives." Dr. Eddie Jacobs, professor in the Department of Electrical Computer Engineering,

was awarded \$50,037

from the University of

Central Florida with the

Florida Fish and Wildlife

Conservation Commission for his project "Python Camera System Processor and UI." Dr. Stephanie Ivey, associate dean for research and professor in the Department of Civil Engineering, was awarded \$28,750 from the University of Tennessee, Knoxville with the Tennessee Department of

Transportation for her project "Promoting Innovations through

Training to Improve **Traffic Signal Operations** 

in TN."

Dr. Keri Brondo, professor and department chair in the Department of Anthropology, was awarded \$20,000 from the National Geographic Society for her project "Fishing Livelihoods & Lionfish Markets in Utila Keys." Dr. Latrice Pichon, associate professor in the Division of Social and Behavioral Sciences, was awarded \$20,000 from the Tennessee Department of Health for her project "Multi-level Community-

and Faith-led

Disparities."

Dr. Paul Simone,

of Chemistry, was awarded \$18,582 from

**Engagement Activities to** Eliminate Memphis HIV

associate professor and Chair in the Department

Foundation Instruments, LLC for his project "Development and Evaluation of the TotalTHM-NOW." Dr. Laura Casey, professor in the Department of Instruction and Curriculum Leadership, was awarded \$11,500 from the Tennessee Department of Education for her project "TEIS Developmental Gap Services." Dr. Mohd Ali, associate

professor in the

Department of Electrical Computer Engineering, was awarded \$10,000

from the Electric Power

projects "Design of

Capacitor for Solar Photovoltaic System"

and "Design of Novel Bidirectional DC-DC

Research Institute for his

Novel Variable DC Link

Converter for Battery Energy Storage System Used in Microgrid." Dr. Mary Schallert, unit coordinator and clinical associate professor in the College of Health Sciences, was awarded \$500 from Bridges USA Incorporated for her project "Bridges USA, Bridge Builders Culinary Nutrition Series." \* Data reported the 18th of each month.

Awards finalized after

reported the following

Research + Innovation <u>News</u>

Quick Guide to Research & **Sponsored Programs** 

**Research Compliance** 

**FedEx** 

MEMPHIS

**Institute News** 

the 18th will be

month.

**Research Clusters Emerging Tech Training DevMemphis** Feb. 2 | 6-7:30 PM | Virtual Machine Learning/Data Sciences/R Feb. 2 | 7-8 PM | VIrtual Tech Talk: Angela

**Antipova** 

Virtual

Feb. 9 | NOON-1 PM |

**Memphis Web Workers** Feb. 9 | 6-8 PM | Virtual

Feb. 10 | 6-8 PM | Virtual

Feb. 11 | 5:30-7:30 PM |

**Memphis Python** Feb. 15 | 6:30-8:30 PM |

**FIT Emerging Tech** Training: DevSecOps Feb. 15-19 | 8:30 AM-NOON

**Memphis Game Developers** 

Power BI

Virtual

Virtual

| Virtual

Huang. Feb. 16 | NOON-1 PM | Virtual **FIT Emerging Tech Training: Business Agility Strategist** Feb. 22-26 | 8 AM-NOON | Virtual Memphis M365 Feb. 18 | 3-5 PM | Virtual

Tech Talk: Dr. Brandt

Feb. 19 | NOON-1 PM |

**Tech Talk: Dr. Timothy** 

Feb. 23 | NOON-1 PM |

**Pence** 

Virtual

**Brewster** 

Virtual

Tech Talk: Dr. Xiaohua

**MemphisPHP** Memphis .NET

For the latest news and economic

Feb. 26 | NOON-1 PM |

Virtual

## **Post-Award Management** You got funded! Now what happens? (Instructors – Lauren Williams & Stephanie Thompson) Feb. 18 | 2:30 PM | Microsoft Teams

\* For a calendar invite to any training, contact





Host Genes, Immune Response and



SARS-CoV2

Dr. Xiaohua Huang

**FEB. 16 | NOON-1 PM** 

Susceptibility/Resistance to

Dr. Brandt Pence Dr. Timothy Brewster FEB. 26 | NOON-12:30 PM Continental Lithosphere Formation and Evolution, Intraplate Seismicity,

**EMERGING RESEARCH** TECH TALKS

FEB. 9 | NOON-1 PM

in Tennessee

Dr. Angela Antipova

**Identifying Areas of Geographical** 

Inequalities in COVID-19 Morbidity and

Mortality Across Disadvantaged Areas

Induced Seismicity, Rupture Dynamics

Dr. Erin Cunningham

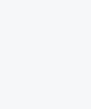
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**FedEx** NSTITUTE OF ECHNOLOGY MEMPHIS.



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