

# INNOVATION

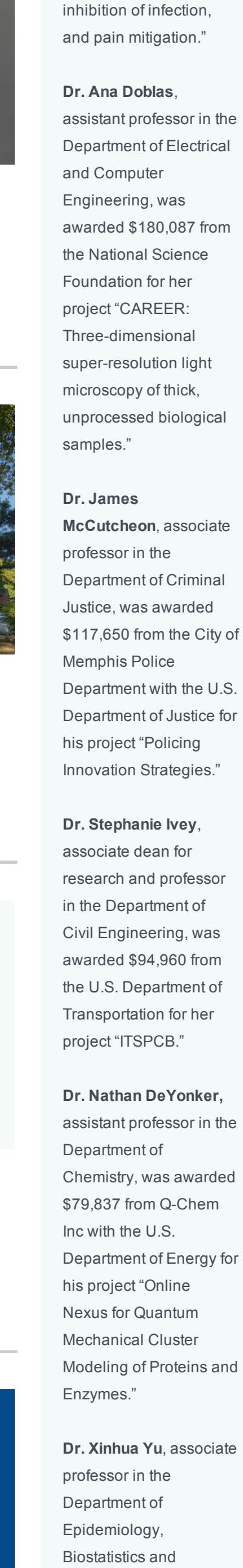
## NEWSLETTER

RESEARCH.  
TECHNOLOGY.  
ACHIEVEMENTS.

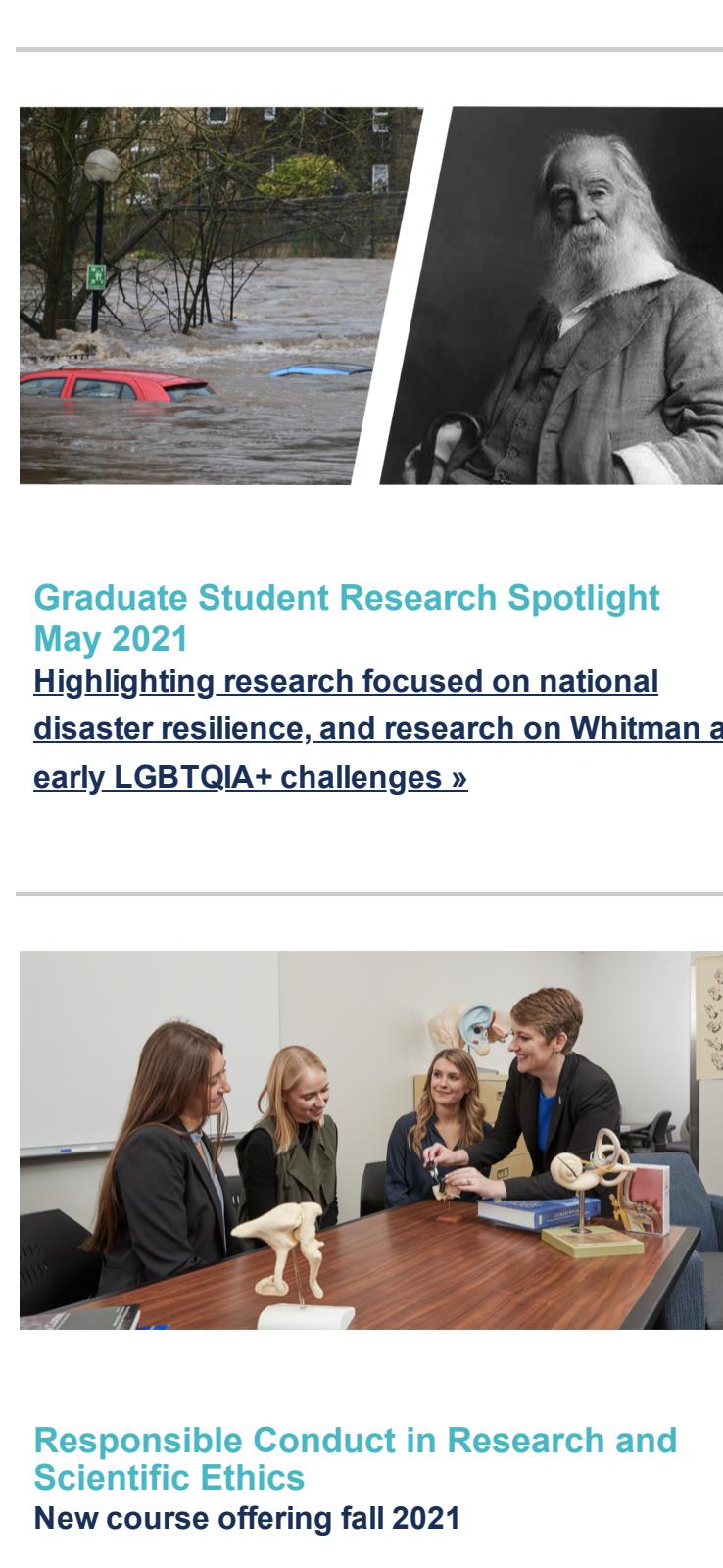
May 2021 • COVID-19 Updates



**UofM's Salehi Awarded NSF CAREER Award**  
[Microplastics fate and contaminant transport behavior in stormwater runoff »](#)



**Tipirneni-Sajja Receives NIH Trailblazer Award from NIH**  
[Will fund research to develop MRI technique, replacing biopsy »](#)



**Jennings Receives U.S. Department of Defense Award**  
[To develop novel traumatic injury therapy »](#)

**Research Awards**  
April 2021

**Dr. Jessica Jennings**, assistant professor in the Department of Biomedical Engineering, was awarded \$268,156 from the U.S. Department of Defense for her project "Development of acylated nanofibrous chitosan membranes for pre-hospital traumatic wound coverage, inhibition of infection, and pain mitigation."

**Dr. Ana Doblas**, assistant professor in the Department of Electrical and Computer Engineering, was awarded \$180,087 from the National Science Foundation for her project "CAREER: Three-dimensional super-resolution light microscopy of thick, unprocessed biological samples."

**Dr. James McCutcheon**, associate professor in the Department of Criminal Justice, was awarded \$117,650 from the City of Memphis Police Department with the U.S. Department of Justice for his project "Policing Innovation Strategies."

**Dr. Stephanie Ivey**, associate dean for research and professor in the Department of Civil Engineering, was awarded \$94,960 from the U.S. Department of Transportation for her project "ITSPCB."

**Dr. Nathan DeYonker**, assistant professor in the Department of Chemistry, was awarded \$79,837 from Q-Chem Inc with the U.S. Department of Energy for his project "Online Nexus for Quantum Mechanical Cluster Modeling of Proteins and Enzymes."

**Dr. Xinhua Yu**, associate professor in the Department of Epidemiology, Biostatistics and Environmental Health, was awarded \$50,000 from the City of Memphis for his project "Antibody Testing of COVID-19 Epidemic in Shelby County."

**Dr. Thomas Sutter**, professor and Feinstein Chairman of Molecular Biology in the Department of Biological Sciences, was awarded \$50,000 from the National Institutes of Health for his project "A core transcription factor complex of the aryl hydrocarbon receptor."

**Dr. Irma Singarella**, associate professor in the Department of University Libraries, was awarded \$17,791 from the University of Maryland with the National Institutes of Health for her project "COVID-19 Health Information Outreach Award: Improving Accessibility of Health Information during the COVID-19 Pandemic: Health Education for Living During the Pandemic-US (HELP US Project)."

**Dr. Monit Ganguly**, post-doctoral fellow in the Department of Research and Innovation, was awarded \$13,270 from the Dana-Farber Cancer Institute for his project "Innovation Portfolio Project (IPP)."

**Dr. Seok Won Jin**, assistant professor in the Department of Social Work, was awarded \$10,000 from the University of Memphis Foundation for his project "Assessing Disparities in Human Papillomavirus (HPV) Vaccination in the Mid-South."

**Dr. Jack Strahl**, associate director in the Center for Research in Educational Policy, was awarded \$7,211 from the Achievement School District with the State of Tennessee for his project "Achievement School District Special Education Needs Assessment."

**Dr. Courtney Melton-Fant**, assistant professor in the Department of Health Systems Management and Policies, was awarded \$6,750 from the University of Memphis Foundation with the West Clinic P.C. for her project "The geography of evictions in Memphis: relationships between eviction filings and neighborhood socioeconomic and health outcomes."

**Dr. Debra Bartelli**, research associate professor in the Department of Epidemiology, Biostatistics and Environmental Health, was awarded \$5,000 from the Memphis Child Advocacy Center for her project "Memphis Child Advocacy Center Counseling Outcome Evaluation."

**Dr. Deranda Lester**, research assistant professor in the Department of Psychology was awarded \$2,000 from Psi Chi for her project "Examining Whether Oxytocin Treatment Can Reverse Behavioral and Neurochemical Phenotypes Associated with Drug Abuse."

**FIT What's Next Series: Dr. Fioruzeh Sabri**  
May 11 | NOON-1 PM | Virtual

**FedEx Institute of Technology & Blockchain901 Series: featuring Mike McCay**  
May 11 | 2-3 PM | Virtual

**Memphis Web Workers**  
May 11 | 6-8 PM | Virtual

**MemPass/Power BI**  
May 13 | 5:30-7:30 PM | Virtual

**FIT What's Next Series: Dr. Cunningham**  
May 13 | NOON-1 PM | Virtual

**Memphis Game Developers**  
May 15 | 6-8 PM | Virtual

**Memphis Python**  
May 17 | 6:30-8:30 PM | Virtual

**FIT What's Next Series: Dr. Dave DeSimone**  
May 18 | NOON-12:30 PM | Virtual

**Memphis M365**  
May 20 | 3-5 PM | Virtual

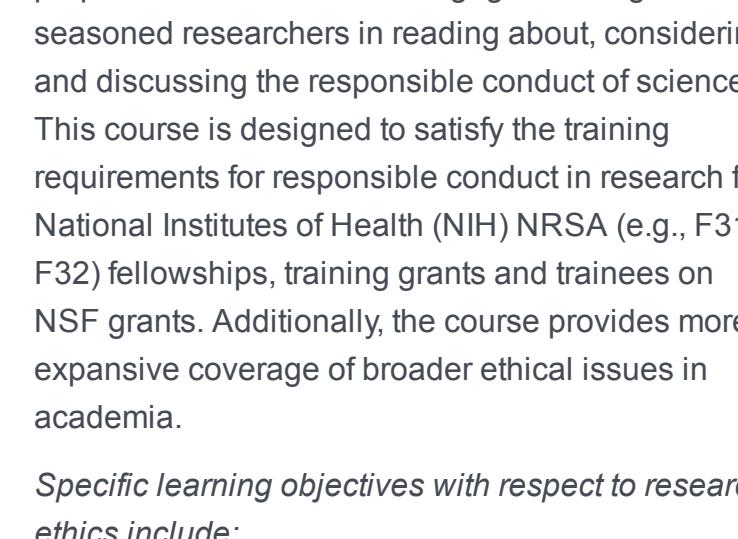
**Intro to Syncfusion Essential Studio Memphis Xamarín**  
May 25 | 6-8 PM | Virtual

**Coding Help & Hack Night**  
May 25 | 6:30-8 PM | Virtual

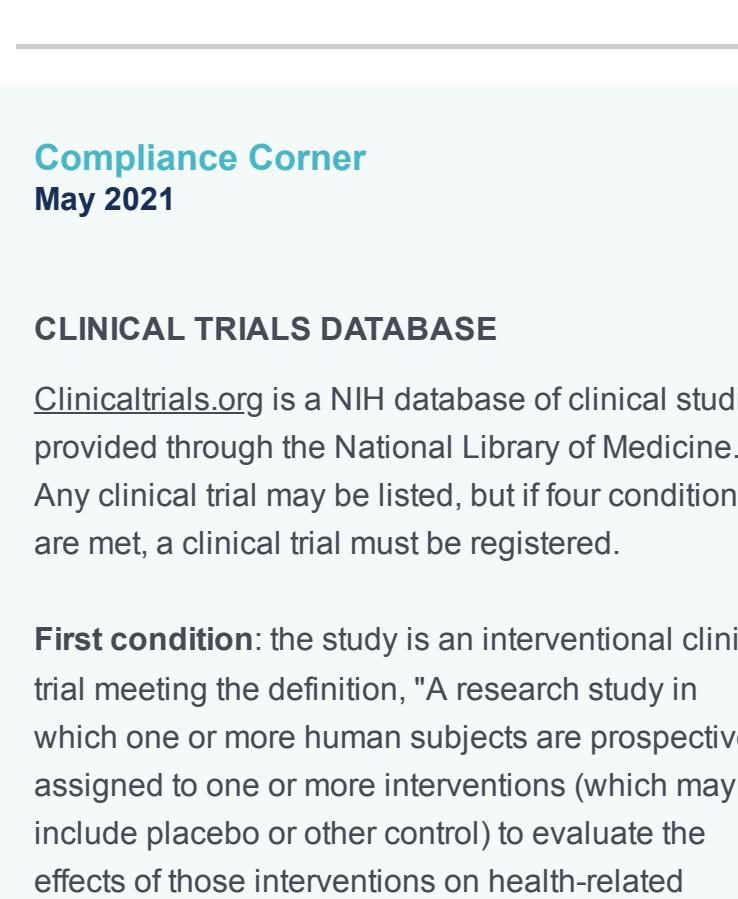
**Memphis .NET**  
May 27 | 6-8 PM | Virtual

**Memphis Agile**  
May 27 | 6-7:30 PM | Virtual

**UX/UI Bytes**  
May 28 | 11:30 AM-12:30 PM | Virtual



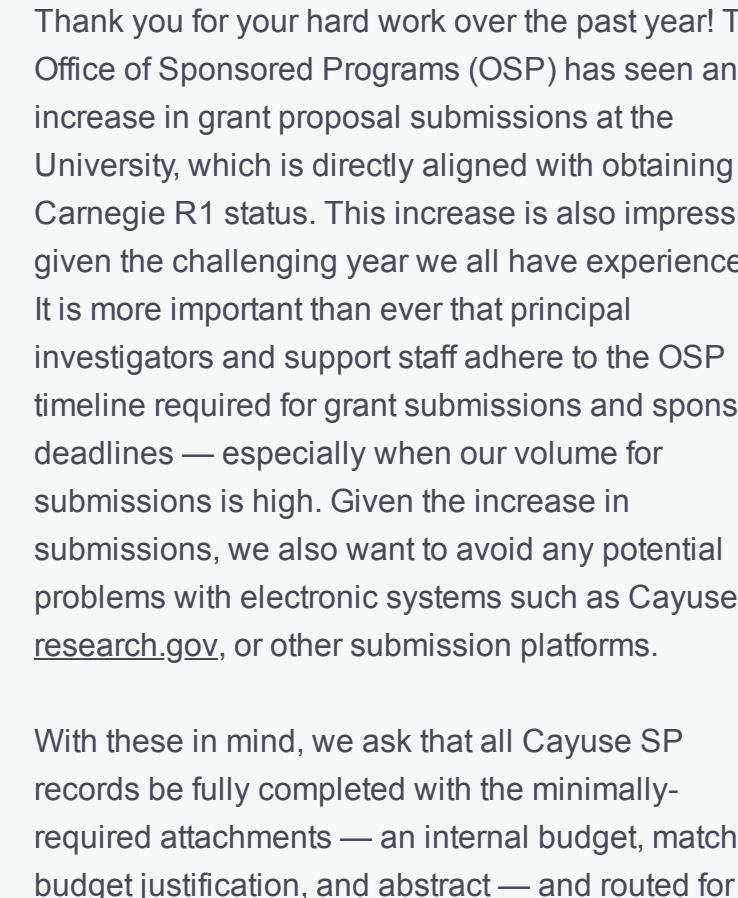
**Women in STEM Showcase Excellence**  
[Herff engineers advancing early career research success »](#)



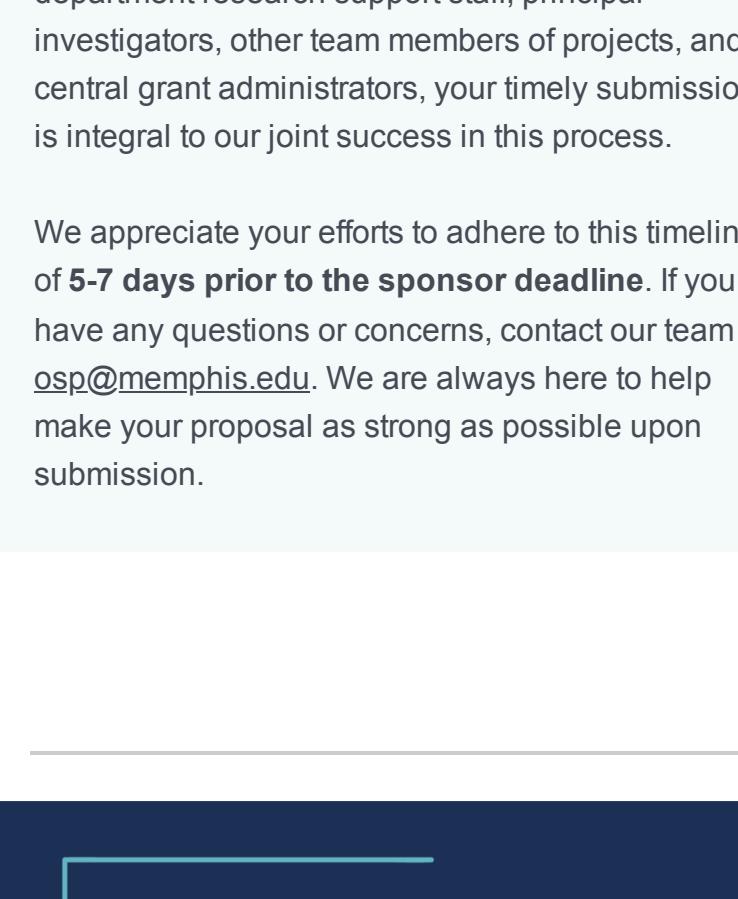
**Lambert-Pennington Honored with Fulbright Scholar Award**  
[Will study the relationship between the politics of development and the practices of democracy »](#)



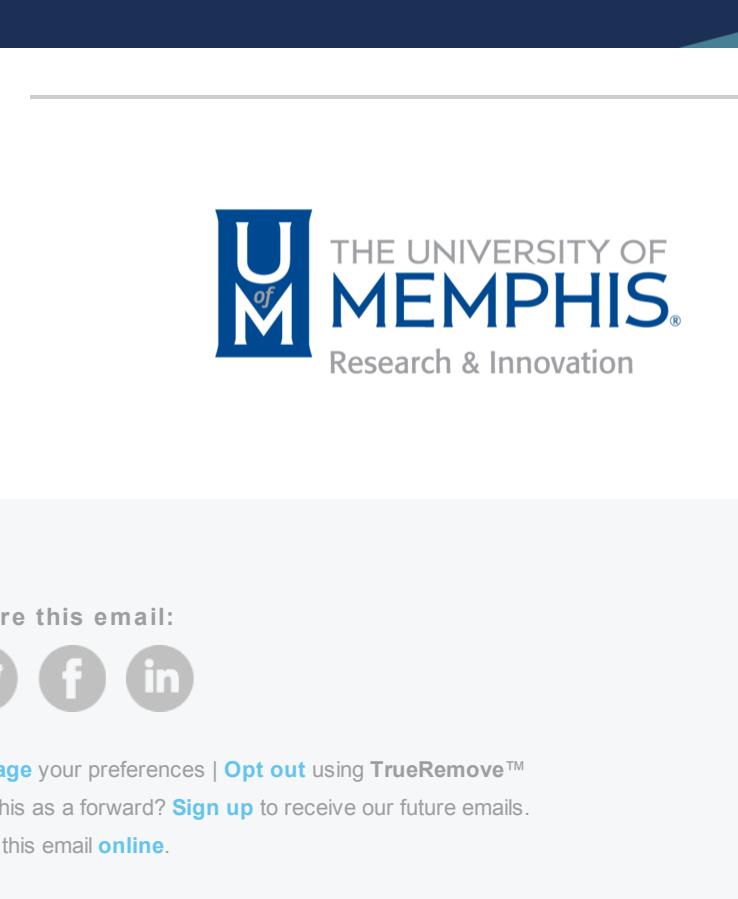
**FedEx Institute of Technology and Epicenter Launch Two More Science-Based Startups**  
[Building on the entrepreneurial landscape in Memphis »](#)



**Singarella Leads NIH Grant-funded Project**  
**Partners CoRS and Memphis Public Libraries to focus on improving accessibility of health information and health education during the COVID-19 pandemic »**



**Graduate Student Research Spotlight May 2021**  
**Highlighting research focused on national disaster resilience, and research on Whitman and early LGBTQIA+ challenges »**



**IRB and COVID Updates**  
The University of Memphis' Institutional Review Board (IRB) continues to look to CDC guidelines, state, local and University requirements in their review of social distancing considerations in human subjects protocols. It is expected that as social distancing guidelines are loosened, so will it be loosened for research procedures as well. As with all protocol procedure changes, modifications must be submitted for review to the IRB. When submitting for modification, please consider all local and relevant guidelines and be prepared to justify changes.

For additional information, contact Dr. Gavin Bidelman at [gmbdlm@memphis.edu](mailto:gmbdlm@memphis.edu).

The course is open to all graduate students university-wide. For more information, students can contact Dr. Gavin Bidelman at [gmbdlm@memphis.edu](mailto:gmbdlm@memphis.edu).

AUSP 7130/8130 (CRN: 95414/95411)  
1 credit hour | Day and Time TBA



**Office of Sponsored Programs Cayuse SP Records: Submission Deadline**  
Thank you for your hard work over the past year! The Office of Sponsored Programs (OSP) has seen an increase in grant proposal submissions at the University, which is directly aligned with obtaining Carnegie R1 status. This increase is also impressive given the challenging year we all have experienced. It is more important than ever that principal investigators and support staff adhere to the OSP timeline required for grant submissions and sponsor deadlines — especially when our volume for submissions is high. Given the increase in potential problems with electronic systems such as Cayuse, [researchcompliance@memphis.edu](http://researchcompliance@memphis.edu), or other submission platforms.

With these in mind, we ask that all Cayuse SP records be fully completed with the minimally-required attachments — an internal budget, matching budget justification, and abstract — and routed for internal approvals 5-7 days prior to the sponsor deadline. You may have more requirements depending on your specific grant proposal. For example, subrecipients require additional documents and time to review. Adhering to the 5-7-day deadline gives your OSP proposal specialist appropriate time to review documents for accuracy, procure any signatures or letters required, and request/suggest edits prior to final submission to sponsor.

OSP works hard to ensure that all grant proposals are comprehensively reviewed to promote success. We are also required to adhere to all University and federal/state regulations and policies. Together with department research support staff, principal investigators, other team members of projects, and central grant administrators, your timely submission is integral to our joint success in this process.

We appreciate your efforts to adhere to this timeline of 5-7 days prior to the sponsor deadline. If you have any questions or concerns, contact our team at [osp@memphis.edu](mailto:osp@memphis.edu). We are always here to help make your proposal as strong as possible upon submission.



**WHAT'S NEXT? EMERGING RESEARCH TALKS**  
MAY 6 | NOON-12:30 PM

Development and synthesis of novel catalyst architectures for important organic reactions

Timothy Brewster

Design, synthesis and characterization of a RTV-aerogel compound for cryogenic tank material applications for space exploration

Fioruzeh Sabri

MAY 13 | NOON-12:30 PM

Continental lithosphere formation and evolution, intraplate seismicity, induced seismicity, rupture dynamics

Erin Cunningham

Risks of heavy metal in drinking water systems & corrective actions

Dave DeSimone

MAY 18 | NOON-12:30 PM



The School of Communication Sciences and Disorders will offer the Responsible Conduct in Research and Scientific Ethics course this fall. The purpose of the course is to engage budding and seasoned researchers in reading about, considering and discussing the responsible conduct of science. This course is designed to satisfy the training requirements for responsible conduct in research for National Institutes of Health (NIH) NRSA (e.g., F31, F32) fellowships, training grants and trainees on NSF grants. Additionally, the course provides more expansive coverage of broader ethical issues in academia.

Specific learning objectives with respect to research ethics include:

1. To know rules, issues, options and resources for research ethics
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**Compliance Corner May 2021**  
**Highlighting research focused on national disaster resilience, and research on Whitman and early LGBTQIA+ challenges »**



**CLINICAL TRIALS DATABASE**  
ClinicalTrials.org is a NIH database of clinical studies provided through the National Library of Medicine. Any clinical trial may be listed, but if four conditions are met, a clinical trial must be registered.

If all four conditions are met and the study was initiated after Jan. 18, 2017, the clinical trial must be registered. For additional information and checklist, visit [researchcompliance@memphis.edu](mailto:researchcompliance@memphis.edu).

If you have any questions or concerns, contact our team at [osp@memphis.edu](mailto:osp@memphis.edu). We are always here to help make your proposal as strong as possible upon submission.



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**Responsible Conduct in Research and Scientific Ethics**  
New course offering fall 2021

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