

**2020 Research & Creativity EXPO Nov 4
via Zoom 3-5pm**

<https://mcnair.siu.edu/research-creativity-expo/>

Title: Field Research to Support Crime Prevention Program: Criminology & Criminal Justice	
3:00-3:30	We will discuss research in the field that supports crime prevention and criminal justice reform. Dr. Raymund Narag will talk about his research on a Community Bail Bond Project in the Philippines. Dr. Tammy Kochel will talk about her collaborative research with St Louis County Police to reduce crime and opportunities for students to participate in her research during Summer 2021. Stephanie Jerstad will discuss her experiences as field research coordinator conducting field research on faculty research projects.
Flashtalks; Q&A	Contact: Tammy Kochel, tkochel@siu.edu

Title: BigDawg Research Computing Program: Office of Information Technology	
3:00-3:30	Two School of Computing Graduate Research Assistants will give flashtalks on "BigDawg High Performance Computing" and "Parallel Computing" and followed by a question and answer session on how to perform long and tough computational research jobs on the University's BigDawg HPC Cluster.
Flashtalks	Contact: Chet Langin, cl.research@siu.edu ; Majid Memari, memari@siu.edu ; Manvith Reddy Mali, saimanvithreddy.mali@siu.edu

Going Viral: SIUC responds to the Pandemic and so can you Program: Microbiology & Center for Teaching Excellence	
3:00-4:00	Video featuring students and faculty working together at SIU to combat the coronavirus, providing clear examples of how undergraduates get involved quickly with significant research for real-world applications.
Video; Q&A	Contact: Scott Hamilton-Brehm & Greg Wendt

Morris Library - 3D Printing Service & Research Assistance Program: Morris Library	
3:00-4:00	Learn more about Morris Library's 3D printing service. Also, find out how Morris Library can help with your research needs.
Q&A	Contact: Jennifer Horton, jhorton@lib.siu.edu

Title: Mental Health Risk Assessment Research Program: Counseling and Rehabilitation Education	
3:00-4:00	Use of computer simulations to enhance skill development for assessing risk of harm to self or others.
Flashtalks; Q&A	Contact: Debra Pender, dpender@siu.edu

Title: Joining the McNair Scholars Program Program: McNair Scholars Program	
3:00-4:00	Learn how to become a part of this nationally recognized program and develop your leadership and research skills in preparation for graduate school and careers beyond college. Hear scholars talk about some of the benefits of membership including, paid summer research experiences, faculty and staff mentoring, GRE preparation, and conference travel, graduate school application assistance, and more. All participants must have a minimum GPA of 2.7, be a U.S. citizen or permanent resident, and completed at least 56 hours of coursework. Deadline Nov 13. Visit mcnair.siu.edu to learn more about program eligibility and benefits.
Flashtalk /Q&A	Contact: Tiara Watson, tiara.watson@siu.edu or Rhetta Seymour, rseymour@siu.edu

Title: 3D Scanning Artifacts for History Education Program: School of Education	
3:00-4:00	Learn ways the 3D scanning and printing of artifacts from archaeological dig sites in southern Illinois and the north coast of Peru are being utilized for instruction and educational research.
Video; Q&A	Contact: Grant Miller, gmliller@siu.edu

Title: Research in Counseling and Rehabilitation Program: Counseling and Rehabilitation Education	
3:00-4:00	The Counseling and Rehabilitation Education program is committed to interdisciplinary research. Students from the undergraduate, masters and doctoral programs will do flash talks about their research. This will be followed by a presentation on the importance of interdisciplinary studies. This will be an interactive presentation and we look forward to showing you our work!
Flashtalk	Contact: Jane Nichols, jlnichols@siu.edu

Title: Integrated Microscopy and Graphics Expertise-OVC Program: I.M.A.G.E. Center	
3:00-4:00	SEM/EDS, TEM, AFM principles, instrumentation, imaging, analysis and their applications in research.
Live Stream	Contact: MD ASWAD ALI, mdaswad.ali@siu.edu

Title: Ask Me Anything: Your Journey to Becoming a Saluki! Program: Admissions	
3:00-4:00	Brief presentation followed by live Q&A.
Q&A	Contact: Tom Quigley, thomas.quigley@siu.edu

Title: The Scoop: Enhancing education with hands on Animal Science Research Program: Animal Science	
3:00-4:00	Talk to faculty about on farm activities and how gain experience.
Q&A	Contact: Karen Jones, kljones@siu.edu

Title: Research in Communication Studies Program: Communication Studies	
3:00-4:00	Members of the Communication Studies Program will showcase research and creative activity opportunities for undergraduate students, demonstrate how communication studies is used outside of academia, and introduce attendees to our programs of study.
Flashtalks & Q&A	Contact: Sandy Penseau-Conway, sandypc@siu.edu

Title: Theater Tackles COVID - Producing Tuck Everlasting during the 2020 Pandemic Program: Theatre	
3:00-4:00	A look at how the Department of Theater is creatively navigating the pandemic to safely produce Tuck Everlasting: The Musical.
Video & Q&A	Contact: Stephen G.Tabor, stephen.tabor@siu.edu

Title: Design Research Projects Program: Design	
3:00-4:00	We will discuss research currently being conducted by SIU Design students and faculty. This research is related to user interaction and engagement, the business of product and communication design, app development, and augmented reality experiences.
Flashtalks & Q&A	Contact: Aaron Scott, ascott@siu.edu

Title: Graduate and Professional Student Experience Program: Graduate and Professional Student Council (GPSC)	
3:00-4:00	GPSC can help answer questions about Graduate and Professional Student funding for conferences and professional development, as well as discuss best practices to be competitive for the GPSC Research Award. Undergraduate students can also learn about the Graduate Student Experience and SIUC opportunities.
	Contact: Dianah McGreehan, dianah.mcgreehan@siu.edu

Title: Opportunities for Undergraduate Research Program: Chemistry & Biochemistry/ Mass Spectrometry Facility	
3:00-4:00	Learn about opportunities for undergraduate research in the Kinsel Research Group.
Q&A	Contact: Mary Kinsel, Mkinsel@siu.edu

Title: Research at NSF IUCRC Center for Embedded Systems Program: Center for Embedded Systems	
3:00-4:00	The presentation will discuss research activities conducted by SIU faculty and students at the center with close collaboration with industrial experts. It will also discuss how students can benefit from such research experiences.
	Contact: Haibo Wang, zhwang@siu.edu

Title: Catch On and Age Friendly Health Systems Program: Social Work	
3:00-4:00	Will show short interactive video clips of activities and engage students in dialogue
Q&A	Contact: Elaine Jurkowski, etjurkow@siu.edu

Title: Infectious diseases and vaccine development Program: Microbiology	
3:00-4:00	I will briefly introduce our research and then allow students to ask questions.
	Contact: Vjollca Kunjufca, vjollca@micro.siu.edu

Title: Center for Archaeological Investigations Program: Center for Archaeological Investigations	
3:00-4:00	There will be a tour of the Curation Center where viewers will meet the curation staff along with the collections we curate. Students will also share the projects and research that are being conducted through the Center for Archaeological Investigations.
Flashtalks	Contact: Jessi Spencer, jessi.spencer@siu.edu

Title: Impact of nanoscale zero-valent iron on carbon dioxide reduction by a microbial community from the campus lake of SIUC. Program: Civil Engineering	
3:00-4:00	This research includes characterization of different concentration of nanoscale zero-valent iron based on size and zeta potential. The nanoparticles were exposed to a 12 hour light and 12 hour dark condition for a month and after that, some microbial community from Campus lake were added to the nanoparticles after one month. Carbon Dioxide was purged inside the samples and this mixture of nanoparticles and microbial community was then studied for the carbon dioxide reduction.
Flashtalk	Contact: Pratima Adhikari, pratima.adhikari@siu.edu

Title: Telling Stories: The Value of Oral History Program: History	
3:00-4:00	The History Zoom Room is an introduction to Oral History. It deals with the process of conducting and transcribing oral history interviews, the many ways they can be used, what can be learned from it, and its historical significance. The topics for this expo are COVID and SIU (Ben Bradley) The Vietnam War (Jaime P. Webb), International Students at SIU (Mikhail Komlatstkiy), Carbondale Levy and the Cadillac Club (LaKenderia Kenner) and the MedPrep Program (Linda Harold).
Flashtalks	Contact: Pamela Smoot, olivia@siu.edu

Title: Research Opportunities in the STEM Center Program: STEM Center	
3:00-4:30	<p>Session 1 (Crayfish & Geo-Radar Research): We will demonstrate how undergraduate and high school students are able to participate in geoscience research at SIU. We are using Ground-penetrating Radar (GPR) to image crayfish (i.e. crawdad) burrows and turn 2D images into 3D rendered images of their underground habitats. Presenter: Zach Seaman</p> <p>Session 2 (Dinos & Geo-Radar): In this Zoom session we will discuss using Ground-Penetrating Radar (GPR) to locate dinosaur bones and bone beds, to map ichnofossil trackways, and to capture stratigraphic information critical to understanding the site's paleoenvironment. Presenter: Alexandra Apgar</p> <p>Session 3 (Science Education): Are you interested in teaching or education? Please join our discussion on what science education and science education research look like at SIU. We will explain how students get involved in hands-on research and discuss how you can benefit from these professional development opportunities.</p> <p>Presenter: Harvey Henson</p>
Flashtalks	Contact Zach Seaman, zachariah.seaman@siu.edu

Game Narrative: The Future of Fiction? Program: English/Creative Writing	
3:00-5:00	Fiction faculty, research assistants, teaching assistants, and students will stream gameplay of their digital projects, provide commentary, and take questions about their creations.
Live Stream	Contact: Pinckney Benedict pinckney@siu.edu

Title: Research in Psychology Program: Psychology	
3:00-5:00	Demonstrations and presentations of recent research in Psychology.
Flashtalks Q&A, & Livestream	Contact: Reza Habib, rhabib@siu.edu

Title: Green Roof Projects Program: Innovation Fellows	
3:00-5:00	Hello! Join us in the University Innovation Fellows room to hear about the various Green Roof Projects happening on campus. We will share details on the overall multidisciplinary innovation hub we are cultivating for student and faculty engagement and research opportunities. Then, we will showcase the low-cost engineering projects ranging from the autonomous irrigation system, building-mounted wind turbine, and solar photovoltaic system! We will have discussions on cultivating the innovation hubs, ways students across the university can become involved, and providing the sustainability of the space. If you are interested in Green Technology/Renewable Energy/Green Spaces, come and join us! We look forward to our conversation!
Flashtalks & Q&A	Contact: Nelson Fernandes, nelson.fernandes@siu.edu Contact: Gustavo Felicio Perruci, gustavo.felicioperruci@siu.edu

Title: Materials Science and Engineering Research at SIUC Program: Materials Technology Center	
3:00-5:00	Learn about the center's critical research areas: 1) Materials Design by Iterative Computation, Synthesis, and Characterization, 2) Sensors and Biosensors, and 3) Energy Storage. Additional research programs include carbon-carbon composites, catalysis, magnetic materials, alternative and traditional energy structural materials, polymers and polymer matrix composites, chemical vapor deposition and infiltration, and plasma induced deposition techniques. Under the guidance of established experts, students associated with MTC receive hands-on training and valuable experience.
Q&A	Contact: Ian Suni, isuni@siu.edu

Title: Creative Research - Radio, Television and Digital Media Program: Radio, TV & Digital Media	
3:00-5:00	Faculty and Students will share their creative research.
Flashtalks, Q&A,	Contact: Robert Spahr, rspahr@siu.edu

Title: The Screenplay Page-an Apparatus for Cinematic Storytelling Program: Cinema & Photography	
3:00-5:00	Associate Professor Bill Rowley will be presenting theories and concepts about writing the screen play, as well as presenting recent screenplays by his students.
Flashtalks	Contact: Bill Rowley, rwrowley@siu.edu

Title: From Baseball to Law Enforcement: Training High Speed, High Stress Reactions Program: Learning Design and Technology -School of Education	
3:00-5:00	Many professionals, from baseball batters to Law Enforcement Officers, must make extremely rapid decisions and actions in very limited time frames. Our research is developing apps that can train these high-performance skills for faster and better decisions.
Flashtalk	Contact: Peter Fadde, fadde@siu.edu

Title: Design, fabrication and characterization of low-cost materials and devices Program: Chemistry & Biochemistry	
3:00-5:00	Our research lab focuses on the design, fabrication, and characterization of novel materials and devices for low-resource countries. Our main objective is to produce functional materials and devices at low-cost utilizing local human expertise in mind. Our group utilizes a wide range of analytical tools for characterization including electron and optical microscopy, AFM, x-ray, and optical spectroscopy.
Live Stream	Contact: Annie Vargas-Lizarazo, annieyojaira.vargaslizarazo@siu.edu

Title: Inspiring Lives: Exploring Creativity Online Program: Special Collections Research Center, Morris Library	
3:00-5:00	Explore creative historical figures in digital collections of the Special Collections Research Center at Morris Library. Link to digital collections
Q&A	Contact: Anne Marie Hamilton-Brehm, 7GA-SCRC@lib.siu.edu

Title: Learn by Doing! Experiential Learning Opportunities at SIU Program: Career Development Center	
3:00-5:00	The Career Development Center has several experiential learning opportunities. There will be 4 mini-talks on the Extern Program, internships/SUIT Fund, mentoring, and micro-internships. Come learn about what you can do in addition to your degree while at SIU to become more marketable, competitive, and ready for today's job market!
Flashtalks	Contact: Vanessa Renshaw, vanessa.renshaw@siu.edu