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Conference Schedule, November 16th, J.C. Penney Conference Center at UMSL

Time	Track 1 (101 JCP Auditorium)	Track 2 (202 JCP)
8:00 am–9:00 am	Registration - JC Penney Lobby Continental Breakfast - JC Penney Summit Lounge	
9:00 am–9:55 am	<i>Cyber SecurED Generation</i> – Reuben and Ittai Paul, 101 JCP	
10:00 am–10:40 am	<i>Digital Transformation and How We Keep Ameren Cyber Secure</i> , Bhavani Amirthalingam, SVP and Chief Digital Information Officer, Ameren, 101 JCP	
10:40–10:55 am	Coffee and Cookies, JCP Summit Lounge	
11:00 am–11:40 am	<i>Staying Ahead in Security</i> , Poonam Verma Vice President of Identity Access Management, Mastercard, 101 JCP	Brown Smith Wallace “Capture the Flag” Competition in 202 JCP
11:45 am–12:00 pm	Mastercard Cybersecurity Awards Ceremony and Pictures Ron Green, CISO, Mastercard, and Poonam Verma, VP-Identity Access, Mastercard	
12:00 pm–12:45 pm	Lunch: JCP Summit Lounge	
12:00 pm–4:00 pm	Career Fair in JCP Summit Lounge	
1:00 pm–1:30 pm	<i>CTRL, Search, Exploit, and Destroy</i> Dr. Maurice Dawson Illinois Institute of Technology, 101 JCP	Brown Smith Wallace “Capture the Flag” Competition in 202 JCP
1:35 pm–2:05 pm	<i>From Pen Tester to Risk Management</i> , James Costello, CISO, WageWorks Inc., 101 JCP	Brown Smith Wallace “Capture the Flag” Competition in 202 JCP
2:10 pm – 2:40 pm	<i>The Problem of Interceptor Top-Level Domains</i> , Dr. George Markowsky Missouri University of Science & Technology, 101 JCP	Brown Smith Wallace “Capture the Flag” Competition in 202 JCP
2:45 pm–3:10 pm	<i>Best Practices for Protecting PII and PHI</i> , Michael Harris, Information Security Administrator, Columbia Insurance Group, 101 JCP	Brown Smith Wallace “Capture the Flag” Competition in 202 JCP
3:15 pm–3:55 pm	<i>Enabling Cradle-to-Grave Encryption</i> , Dr. Alexander Mueller, CEO, Capnion, 101 JCP	Brown Smith Wallace “Capture the Flag” Competition in 202 JCP
4:00 pm–4:45 pm	Panel Discussion on Cybersecurity Trends and Talent: Phillip Finucane (CTO, Express Scripts), Sam Douglas (Sr. Director, CEdge Corp), James Costello (CISO, WageWorks), Tony Bryan (Exec. Director, Midwest Cyber Center of Excellence), Jerome Farquharson (Director–Compliance & Critical Infrastructure Protection, Burns & McDonnell), 101 JCP	
4:50 pm–5:00 pm	“Capture the Flag” Competition Awards Ceremony Bill Gogel, IT Advisory Manager, and Zach Bayne, Advisory Services, Brown Smith Wallace LLC, 101 JCP	

Capture the Flag Competition Sponsored by Brown Smith Wallace LLC, 11:00 am–4:00 pm, 202 JCP

Capture the flag (CTF) is a security/hacking challenge where participants need to find flags in binaries, web applications and systems. There are a diverse number of challenges from full system exploitation to more simple information gathering, also a few locks to pick. Regardless of skill level, participating in a CTF increases skills and is a fun puzzle to increase confidence in information security.

All CTF challenges are pre-made and will be hosted onsite at STLCyberCon 2018. A participant need not be an experienced hacker to take part as everyone will be able to find puzzles, they are capable of completing. The event is Jeopardy style where individuals (or teams) work independently to solve challenges. Most of the flags are independent so participants can work on any number of flags without getting stumped. Once a participant (or team) completes a challenge and acquires a flag, they can post that on the automated scoreboard in order to get points. The most points determines the winners.

Participation is free but everyone has to bring their own laptop/computer. Detailed instructions will be posted at the event. CTF staff will be in the area for the entire event to answer questions. Participants of this challenge have various skill levels. All actions on the network must be responsible and according to ethical hacking practices. This means only targeting machines and challenges that are explicitly mentioned and listed in the challenge.



THE FIRM FOR GROWTH™

**UMSL is region's first and only 4 Year NSA DHS designated
'Center of Academic Excellence in Cyber Defense Education'**



The National Security Agency and the Department of Homeland Security have designated the University of Missouri–St. Louis a Center of Academic Excellence in Cyber Defense Education. UMSL is currently the only 4 Year institution in the St. Louis region to hold this rare and prestigious distinction. UMSL's Cybersecurity Program offers undergraduate and graduate certificates as well as an undergraduate minor to students which incorporate innovative lab exercises in ethical hacking and cyber defense.

The NSA/DHS accreditation is the gold standard for the quality of a cybersecurity program and qualifies UMSL's students for cybersecurity positions at intelligence agencies and the military. It puts UMSL amongst an elite group of institutions to have access to federal cybersecurity scholarships for students and grants for infrastructure development and the authorization to use the official NSA and DHS seals on its website and in program brochures.

**U.S. Bank awards UMSL students with cybersecurity
scholarships**



Since enrolling at the University of Missouri–St. Louis, Ian Bae has made a habit of arriving to class early. He's not getting there prematurely to find the best seat or a quiet study space, though. He's meeting with professors during office hours to discuss the latest trends in cybersecurity. Bae picked up the habit in fall 2017 after news broke about the Equifax data breach, which exposed the personal information of an estimated 150 million Americans. In the weeks following the breach, Bae, spent significant time with Cybersecurity Institute Director Dr. Shaji Khan talking about the issue and the credit bureau's remediation process.

He was one of four UMSL students presented with a \$2,500 U.S. Bank Cybersecurity Scholarship during an Oct. 16 presentation in the U.S. Bank Executive Education Room of Anheuser-Busch Hall. The other recipients include Adelaide Aboagye, Andrew McCormick and Vasyil Onufriyev.

Marcia Peters, manager of information security for U.S. Bank, traveled from U.S. Bancorp headquarters in Minneapolis for the second year to congratulate the award recipients. Before presenting the four scholarships, she addressed the rapid rate of change in cybersecurity and the need for a more populated workforce to keep up with this development. "Cybersecurity is at the heart of keeping our customers, employees and communities protected from attacks," Peters said. "In order to maintain safety and soundness, we need well-trained cybersecurity leaders in our businesses. That is why we are excited to partner with the University of Missouri–St. Louis to provide these scholarships to help further these students' education and training." The U.S. Bank Cybersecurity Scholarships are part of a three-year commitment to UMSL, which began in 2017.

**UMSL earns only NSA, DHS focus area specialization
within 9-state region**



The National Security Agency and the U.S. Department of Homeland Security have designated the University of Missouri–St. Louis with a focus area specialization in Security Policy Development and Compliance through academic year 2021. UMSL is the only institution within Missouri and all of its eight neighboring states to hold any of the 17 available focus areas.

The university is also the only four-year school in Missouri marked as a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE), a designation also granted by the NSA and DHS. Focus area specializations are only available to centers of academic excellence. The process requires an extensive review of curricula including detailed course mapping and mandatory knowledge units.

UMSL's cybersecurity program is a multidisciplinary effort between the Department of Mathematics and Computer Science in the College of Arts and Sciences and the Department of Information Systems in the College of Business Administration. This collaborative approach allows students to explore the many avenues of information security and adapts to the evolving nature of the field. Students have a selection of undergraduate and graduate certificates as well as an undergraduate minor in cybersecurity. In fall 2018, UMSL has plans to offer undergraduate and graduate degrees in cybersecurity.

In addition to the prestigious NSA/DHS designations, UMSL has made significant strides in advancing the cybersecurity field at large. The program received \$493,650 from two NSA grants within the last year. This funding will help develop lab infrastructure, enhance equipment and advance curricula.

For more information about UMSL's academic programs visit:
Cybersecurity: <https://cybersecurity.umsl.edu>
Information Systems: <https://mis.umsl.edu>
Computer Science: <https://www.umsl.edu/mathcs/>