Cybersecurity Conference

Fall 2019
October 11th

Conference Schedule

Registration...............……………….....................**8:00AM - 9:00AM**

Welcome...……………………...……………….....…..9:00AM - 9:30AM

Keynote: Socrates Frangis...………….......................9:30AM - 10:30AM

Presentation: Assemblymember Jacqui Irwin………......11:00AM - 12:00PM

Lunch....…………………………...........................**12:00PM - 1:00PM**

Presentation 1: Reza Abdolee...………..……..………......1:00PM - 1:30PM

Presentation 2: Nick Razum…..…………….....……...…......1:30PM - 2:00PM

Presentation 3: Arthur Press...…………….......................2:30PM - 3:00PM

Presentation 4: Varun Pole.....…………………....……..3:00PM - 3:30PM

Closing..…………………………..........................**3:30PM - 4:00PM**

Presentation Booth:

CSUCI Cybersecurity Club

Conference Webpage: **http://prof.msoltys.com/cyberconf2019**

RSVP: **https://bit.ly/2ZnytPH**

Presenters

Socrates Frangis
Bug Hunting

From manual reverse engineering to intelligent automation. Finding software defects and identifying security vulnerabilities in binaries is just as important as developing the software itself. This talk will cover the breadth of bug hunting, reverse engineering tools, DARPA Cyber Grand Challenge (CGC), and NSWC Port Hueneme's effort in piloting Defense Innovation Unit (DIU) Project Voltron - the follow on to the CGC for intelligently automating the detection and remediation of software defects. Socrates Frangis is the Cybersecurity Technical Lead, as a direct report to the NAVSEA Naval Surface Warfare Center Port Hueneme Division Technical Director. His duties cover naval combat systems engineering and security research. Academically, he has an undergraduate degree in Computer Science & Applied Mathematics from UCSB, Graduate degree from Naval Postgraduate School in Systems Engineering with a focus on directed energy weapons and is currently a PhD Student at Naval Postgraduate School in Systems Engineering with a focus on cybersecurity.

Assemblymember Jacqui Irwin
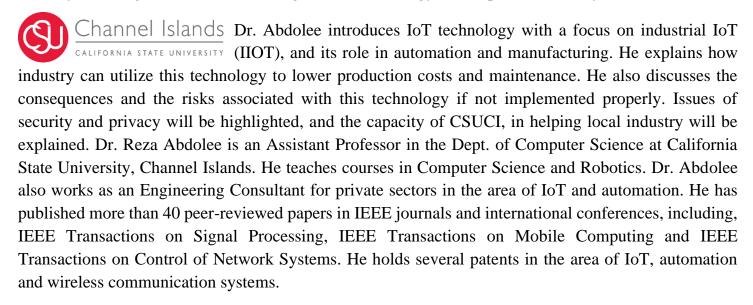Legislation and Cyber Security Training

Assemblymember Jacqui Irwin serves as Chair of the California Select Committee on Cybersecurity and as the Co-Chair of the National Conference of State Legislatures Task Force on Cybersecurity. She has served as an advocate for increased cybersecurity training and protection at the state and federal level. Her work includes: legislation that would require California to create and properly implement cybersecurity emergency standards, require state departments do a network assessment, and force IoT related devices to include security standards when selling their devices in California, and allow political campaigns to spend money on cybersecurity training Elected to the Assembly in 2014, Irwin is in her third term representing the 44th Assembly District in the State Assembly. She serves as the Chair of the Assembly Veterans Affairs Committee and the Select Committee on Cybersecurity. Irwin has had more than fifty bills signed by the Governor, including: requiring security on internet of things devices, securing funds to establish an engineering school at Cal State Channel Islands, and investing in business incubators at UC campuses to ensure that research is being transformed into real-world products.

Reza Abdolee

Security Challenges in Internet-of-Things (IoT) Technology and Impact on Industry

Dr. Abdolee introduces IoT technology with a focus on industrial IoT (IIOT), and its role in automation and manufacturing. He explains how industry can utilize this technology to lower production costs and maintenance. He also discusses the consequences and the risks associated with this technology if not implemented properly. Issues of security and privacy will be highlighted, and the capacity of CSUCI, in helping local industry will be explained. Dr. Reza Abdolee is an Assistant Professor in the Dept. of Computer Science at California State University, Channel Islands. He teaches courses in Computer Science and Robotics. Dr. Abdolee also works as an Engineering Consultant for private sectors in the area of IoT and automation. He has published more than 40 peer-reviewed papers in IEEE journals and international conferences, including, IEEE Transactions on Signal Processing, IEEE Transactions on Mobile Computing and IEEE Transactions on Control of Network Systems. He holds several patents in the area of IoT, automation and wireless communication systems.

Nick Razum

Behavioral Analytics and the Convergence of Physical & Cyber Security

Whether physical or cyber, threats are threats. The convergence of security functions may well be the most effective way to understand security risk. Shifting from tactical to strategic can mitigate loss management and reduce bad things from occurring, decrease response time, and increase prevention. Convergence is endorsed by the three leading international organizations for security professionals. How closely physical and cyber security organizations are structured within an organization is dependent on organizational need. This presentation will discuss factors which may be useful in determining organizational structure. Nicholas Razum, PhD is a director in Global Security at Amgen. He is responsible for global intelligence, investigations, insider threat, and is also involved heavily with crisis management. Dr Razum has been assigned to Federal Public/Private Sector working groups within DoD and DHS on topics from Bioterrorism to Cybersecurity. He has also been a reserve deputy with Los Angeles Sheriff's Department for over 25 years and has worked Patrol, Narcotics, K9, SAR and Criminal Intelligence.

Arthur Press

Vulnerability Remediation

Press will go over the top 8.5 things you can do to protect your network. He will teach you how to scan for vulnerabilities and then remediate them. You will learn how to score A+'s on external scans. How to frustrate Pen Testers and much more. Arthur's interested in IT Security came when he learned about the 2013 Target credit card hack. It fascinated him that unknown hackers broke into a 3rd party HVAC company and used that to pivot into Target's credit card POS systems. From there Arthur became intensely interested in IT security. Press is the President of the Ventura County ISSA chapter (Information Systems Security Association). He also started teaching IT Security at Cal Lutheran University as an adjunct professor. He is the Cyber Security Manager for Semtech. His team oversees IT security of Semtech's worldwide operations. Arthur conducts many all day, "hands on the keyboard," training sessions for the Ventura County ISSA.

Varun Pole

Security in the cloud

This presentation will discuss important security tools, features, and best practices in AWS to build, protect, and maintain a secure environment. Items covered will be; key capabilities of AWS service offerings available globally that U.S. federal, state, and local agencies, as well as, global commercial enterprises can leverage to align to the NIST Cybersecurity Framework (CSF i.e., security in the cloud). You will leave with assurance that AWS services deliver on the security objectives and outcomes identified in the CSF and that you can use AWS solutions to support your own alignment with the CSF and any required compliance standard. This combination of outcomes should empower you with confidence in the security and resiliency of your data as you migrate critical workloads to the AWS cloud. Varun Pole has seven years of experience in cloud computing technology. He holds a Master's Degree from New York University in Electrical and Computer Engineering. Varun joined AWS in 2013 as a Support and Network Engineer and currently works as an AWS Solutions Architect where he collaborates and helps customers in Higher Education accelerate adoption of cloud computing.