



ISSA
Information Systems Security Association



Monthly Meeting
October 28, 2020

Central Maryland Chapter Sponsors:
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- ❖ Bill Smith, Jr., CISSP, GSNA, CEH, GPEN, GCFA, GCFE - President
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Call for Volunteers

We have opportunities available for non-board positions:

- Event Coordinator to coordinate events and workshops,
- Study Group Facilitator to prepare candidates for the certification exams like Security+, CISM, etc.

If interested, or for more information, please contact a board member.

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Election of Officers

November 18, 2020, Performed on-line virtually

- ❖ President: Bill Smith, Jr.
- ❖ VP Education: Kevin Newman
- ❖ VP Membership: Steve Chan
- ❖ VP Outreach: Open

Election Chair: Renee Esposito <renee_espos@hotmail.com>

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2021-1 CISSP Study Group

Start: February 16, 2021

End: May 18, 2021

**UMBC Training Center and/or
Virtual via Zoom**



CISSP®

Review and Practice Exam

14 Sessions Total

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SIXTH ANNUAL

MARYLAND
STEM
FESTIVAL  **2020**
VIRTUAL

Oct 2, 2020 through Nov 1, 2020

**MANU
FAC
TURING**



DESIGN

Silver Sponsors

Bowie State
Lockheed
BGE

Gold Sponsors

 **tenable**
GRACE
Talent | Technology | Trust™

Bronze Sponsors

Carroll Community College
KCI Technologies Inc
ISSA Central Maryland
Chapter
Morgan State University
Emergent BioSolutions
University of Maryland
Baltimore



OCTOBER 2 through NOVEMBER 1

Theme: Manufacturing Design

<https://marylandstemfestival.org/>

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UMBC
TRAINING CENTERS

The UMBC Training Centers is offering free webinar series, covering a variety of skills and career sessions on software development, cybersecurity, leadership, and more.

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(ISC)² Security Congress

Join thousands of leading cybersecurity professionals virtually at (ISC)² Security Congress 2020 November 16-18. You will hear expert insights into the latest security challenges, and share best practices for combating threats, building teams and implementing the latest processes and procedures to better defend your organizations' critical assets. We will discuss the latest issues facing the workforce, explore pathways for career advancement and discover new tools and solutions together.

Attend (ISC)² Security Congress from home and take advantage of the powerful collaboration that you can only find at a conference of your peers who are dedicated to helping one another solve the challenges we all face.

ISC2 Member rate is \$395 and non-members are \$495. For more details and to register, visit <https://www.isc2.org/Congress#>

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Free Security Training

Fortinet - Advanced training for security professionals, Technical training for IT professionals, and Awareness training for teleworkers.

<https://www.fortinet.com/training/cybersecurity-professionals.html>

Cambridge - Software and Security Engineering

<https://www.cl.cam.ac.uk/teaching/1920/SWSecEng/materials.html>

Palo Alto Network - Free Cybersecurity Education for ALL

<https://www.linkedin.com/pulse/free-cybersecurity-education-all-florian-buijs/>

6 Free Cybersecurity Training and Awareness Courses

<https://www.darkreading.com/threat-intelligence/6-free-cybersecurity-training-and-awareness-courses/d/d-id/1337781>

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ISSA Member Benefits

List of special offers available to members. You will need to login with your member portal credentials to access this page.

<https://www.members.issa.org/page/SpecialOffers>

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ISSA 2020 Meetings and Events

Date	Speaker	Organization	Topic
October 28, 2020	Ira Winkler	Secure Mentem	Lessons Learned from 30 Years of Security Awareness Efforts
November 18, 2020	Dr. Tomas Pena	L3 Harris Technologies	Roles of AI and Deep Learning in Data Exfiltration
December 16, 2020	James Honeycutt		PowerShell JEA

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November 18, 2020

Dr. Tomas Pena

L3 Harris Technologies

Dr. Tomas Pena is the Chief Technologist for Cyber Operations at L3Harris Technologies' Space and Airborne Systems Segment. In that role, he's responsible for cyber innovation and improving the resiliency of company products spanning land, sea, air, space, and cyber domains. He's been in cyber-related systems engineering and defense contracting positions since 2013. Prior to that time, he completed 20 years of service in the United States Air Force as a Cyberspace Operations Officer where he organized, planned, executed full-spectrum cyberspace operations, stood up the United States Cyber Command's 24/7 Joint Operations Center, and led Air Force Business Transformation Initiatives at the Pentagon. Dr. Pena has also filled roles such as managing the Global Positioning System satellite control systems, managing theater communications during Operations IRAQI FREEDOM and ENDURING FREEDOM. He is also the Founder and President of Parallax Cyber LLC, a small business focused on training and educating the workforce in Cybersecurity and Cyber Conflict, and the current Editor-in-Chief of the Military Cyber Professional Associations' Military Cyber Affairs Journal.

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November 18, 2020

Roles of Artificial Intelligence and Deep Learning in Detecting Data Exfiltration

Essential Internet services are vital for many aspects of modern living, yet those services remain valuable to threat actors who use them for network intrusions and data exfiltration. Dr. Pena completed a quantitative research study analyzing the ability of a Convolutional Neural Network (CNN) to detect Domain Name System (DNS) covert communications generated by the DNSEXfiltrator open source tool. The results showed the CNN model had 100% accuracy when exfiltrated file sizes exceeded 2 Kilobytes (KB) using the default (maximum) transmission packet size, but its performance fell dramatically for files below 1 KB in size.

As AI/ML solutions become more prevalent in cybersecurity tools, professionals must understand where a model's strengths and weaknesses lay in order to apply appropriate risk mitigations, such as tuning complimentary detection systems.

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October 28, 2020
Ira Winkler
Secure Mentem

Ira Winkler, CISSP, is the President of Secure Mentem and Author of Advanced Persistent Security, and the forthcoming books, You Can Stop Stupid and Security Awareness for Dummies. He is considered one of the world's most influential security professionals and was named "The Awareness Crusader" by CSO magazine in receiving their CSO COMPASS Award. He also received the ISSA Hall of Fame award. He has designed and implemented and supported security awareness programs at organizations of all sizes, in all industries, around the world. Ira began his career at the National Security Agency, where he served in various roles as an Intelligence and Computer Systems Analyst. He has since served in other positions supporting the cybersecurity programs in organizations of all sizes. Ira's new book can be preordered here: <https://tiny.cc/stupidbook>

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Lessons Learned from 30 Years of Security Awareness Efforts

Organizations acknowledge that employees are often the weakest link, yet efforts to improve 'user awareness' tend to rely upon available tools and not true experience. Drawing on three decades of awareness efforts and experience improving true security behaviors, Ira Winkler will dispel many commonly held beliefs about security awareness, detailing what consistently works and what does not.

Learning Objectives:

- 1: Learn and apply what works consistently across hundreds of organizational awareness efforts.
- 2: Learn from research in other disciplines that improves awareness efforts.
- 3: Learn how to create a security culture that drives individual security behaviors.

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