

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on February 7, 2018

Action:

1. Approval of last meeting's minutes held on Jan 24, 2018, see attachment #1.

Announcements:

1. Updated tutoring flyer, see attachment #2.
2. Updated Feb 17 flyer, see attachment #3. We just need to fix the year to be 2018.
2. Please continue to store all information and/or work on the grant shared folder on X:\ drive.
3. All four winter contracts for Co-PIs were paid.
4. Jennifer Baggett will be replaced by Amber Stewart who will be working with Drs. Machado and Farag on the research and documentation parts of this project.
5. Upcoming NSA CAE Webinars. See flyers in attachments # 4 and #5. All three events will be held in 331 Stright Hall.
 - Forum Topic: Global Cybersecurity Trends and Practices, Date: Wed 14 Feb 2018, Time: 1:10-1:50 pm ET.
 - Forum Topic: A Scenarios-Based App to Measure Cybersecurity Skills Levels of Non-IT Professionals, Date: Wed 14 Feb 2018, Time: 2:00 – 2:40 ET.
 - Tech Talk Topic: From Malware Analysis to Suricata Signatures – How to Defend your Networks, Date: Thursday 15 February 2018, Time: 1:10-1:50 pm ET.

Discussions:

1. Content and Organization of the Web Portal at www.iup.edu/caeexpansion.
2. Follow up to the Co-PI's meeting with WCCC Deans and faculty on January 18, 2018 and logistics of surveying students at WCCC.
3. Planning for the Feb 17 workshop.
4. Guest speaker for the workshop at WCCC on March 24. Did not hear from Dr. Frank Hartle.
5. Summer camp and possible collaboration with UBMS.
6. Videos of the Dec 2nd workshop to be stored on "X:\Group Sharing\CNAP\1-Important-CNAP-Grant-Execution-Docs\Dec-2-Workshp-MM-Sarah\". Update.

Project Components Status Reports:

1. Research Component: Dr. Machado
2. Tutoring/Writing Center: Dr. Rafoth
3. Cybersecurity local consortium: Dr. Fiddner
4. Web Portal, Summer Camp, and Weekend Workshops: Dr. Farag.

New Business:

??

9th #1

Minutes for the CNAP Committee Meeting

January 24, 2018 at 11:00 AM in 123 HSS

Attended By: Drs. Waleed Farag, Dighton (Mac) Fiddner, Crystal Machado, Ben Rafoth, Krista Sarraf, Alex Ashcom, Sarah Bradshaw, Hunter Sargent, and Braxton Dameron

1. The Minutes of last meeting were unanimously approved at 11:10 AM.
2. WF and DF will work on getting DF access to the X Drive.
3. The CAE-C-Expansion web page will have a new name: Cybersecurity Skill Zone. The current Web URL will be the same: www.iup.edu/caecexpansion.
4. Another Cybersecurity Skill Improvement Workshop will be held on the 24th of March at Westmorland County Community College (WCCC).
5. A survey will be administered to non-IUP student at WCCC and Penn Highland Community College, similar to last semester's survey.
6. Publicizing for the February 17 workshop will begin soon. This could consist of Social Media and Events on the IUP Website.
7. WF is willing to fill the time allotted for Paul Griggs during the February 17th workshop with a presentation of his own.
8. The group discussed adding a disclaimer to the new workshop flyers regarding the similarity in content to the previous workshop.

9. WF will send titles for the February 17 workshop presentations to Sarah.
10. BR and Krista will be visiting students in WF's classes to publicize the tutoring service.
11. WF will send previews of his writing/research assignments for BR.
12. DF and Alex are working to recruit students from Johnstown. They can also recruit from the local Middle School.
13. Meeting was adjourned at 12:30 PM.

Submitted by: Braxton Dameron and Waleed Farag

ATTENTION: STUDENTS TAKING CYBERSECURITY-RELATED COURSES WRITING TUTORING

Now available with an emphasis on cybersecurity

DO YOU NEED HELP:

- Proofreading?
- Preparing PowerPoint presentations?
- Practicing speeches on technical topics?
- Organizing a project proposal?

BECOME A BETTER WRITER

**Get an edge on the job market.
80% of employers say schools
need to emphasize writing skills!**

*Programming and other technical tutoring may be offered through the Computer Science department tutoring service.

Where?

Stright Hall
Room 112 C

When?

Mondays: 4:30-5:30pm
Tuesdays: 5:30-7pm
Wednesdays: 5:00-7pm
Thursdays: 5:30-7pm
Fridays: 1:30-3:30pm

Questions?

E-mail farag@iup.edu
for more information

Need another day/time? Meet a cybersecurity tutor online or in-person.

Cybersecurity Online Writing Center: Appointment Only

Visit <https://iupwritingcenter.setmore.com/> and select "For Cyber Security Online Writing Tutoring Only" to meet with a tutor specially trained in cybersecurity-related writing assignments.

Cybersecurity Face-to-Face Sessions: Appointment Only

Schedule a face-to-face session with a cybersecurity writing tutor by e-mailing Tori Murray at ComputerScience.WCenter.IUP@gmail.com.



Plus, all IUP students can bring any writing assignment to our convenient locations:

218 Eicher Hall: Walk-In Sessions - Monday-Thursday: 9am to 8pm | Friday: 9pm to 3pm

Library Satellite (First Floor): Walk-In Sessions - Sunday: 5pm to 10pm | Monday-Thursday: 8pm to 11pm

Online Writing Center: Appointment Only - Visit iup.edu/writingcenter to schedule a session 24 hours in advance.

<http://www.iup.edu/caecexpansion>

Saturday,
February 17, 2017
9am-2:30pm

112A Stright Hall,
210 South 10th St.,
Indiana, PA



FREE CYBERSECURITY WORKSHOP

*Sponsored by the NSA and IUP; open to all interested students
and teachers*

Learn critical
skills

.....

Meet
professionals
in the field

.....

Hands on
learning

9am: Welcome and Opening Remarks,
Dr. Farag, IUP

9:15-10:45 Cybersecurity 101: A
Hands-On Session, Dr. Isaac
Porche, Rand Corporation

11-12:30 Communicating While Under
Cyber Attack, Dr. Rafoth, IUP

12:30-1 Lunch (pizza)

1-2:30 Global Cyber-Crises Simulation:
WW3? Dr. Fiddner, IUP

EMAIL CAE-C-EXPANSION@IUP.EDU BY FEB. 12 TO REGISTER!

Please include your name, email, address, phone number, dob, grade level,
and school. Space is limited and registration will be first come first served.



CAE Tech Talk



National Centers of Academic Excellence

15 February 2018

From Malware Analysis to Suricata Signatures – How to Defend your Networks (1:10-1:50 pm ET)

Mark your calendars and come join your friends in the CAE community for a Tech Talk. We are a warm group that shares technical knowledge. CAE Tech Talks are free and conducted live in real-time over the Internet so no travel is required. You can attend from just about anywhere (office, home, etc.) Capitol Technology University (CTU) hosts the presentations using their online delivery platform (Adobe Connect) which employs slides, VOIP, and chat for live interaction. Just log in as “Guest” and enjoy the presentation(s).

Below is a description of the presentation(s) and logistics of attendance:

Date: Thursday, 15 February 2018

Time: 1:10-1:50 pm ET

Location: https://capitol.adobeconnect.com/cae_tech_talk/

Just log in as “Guest” and enter your name. No password required.

Title/Topic: From Malware Analysis to Suricata Signatures – How to Defend your Networks

Audience Skill Level: Intermediate

Presenter(s): Dr. Josh Stroschein – Dakota State University

Description:

The use of an IDS/IPS is crucial in providing not only visibility into your networks, but also to help protect your organizations resources. In this talk, we will discuss how you can leverage malware analysis to

create Suricata signatures. This presentation will provide you with tips, insights and resources to get started using Suricata and writing your own signatures right away!

Suricata is a free and open source, mature, fast and robust network threat detection engine. The Suricata engine is capable of real time intrusion detection (IDS), inline intrusion prevention (IPS), network security monitoring (NSM) and offline pcap processing. Suricata inspects the network traffic using a powerful and extensive rules and signature language, and has powerful Lua scripting support for detection of complex threats.

CAE Tech Talks are also recorded

Recordings of live presentations are posted to the website below:

https://capitol.instructure.com/courses/510/external_tools/66

Pdf versions of the presentations are posted to the website below:

<https://capitol.instructure.com/courses/510/files>

Contact

CAE Tech Talk events are advertised thru email and posted to the news and calendar section of the CAE community website: www.caecommunity.org

For questions on CAE Tech Talk, please send email to CAETechTalk@nsa.gov

att #3



14 February 2018

Global Cybersecurity Trends and Practices

(1:10-1:50pm ET)

And

A Scenarios-Based App to Measure Cybersecurity Skills Levels of Non-IT Professionals

(2:00 – 2:40 ET)

Mark your calendar and come join us for CAE Forum! CAE Forum is a live, real-time, online, academic forum where members of the CAE community give non-technical presentations on topics of value to the CAE community. CAE Forum is about sharing your ideas, knowledge, and expertise to empower and strengthen our community. It's that simple. CAE Forum presentations are normally held on the third Wednesday of each month during the Fall and Spring semesters.

Date: Wednesday, February 14, 2018

Time: 1:10-1:50pm ET

Location: <https://caecommunity.zoom.us/my/caeforum>

Just log in as "Guest" and enter your name. No password required.

Title/Topic: Global Cybersecurity Trends and Practices

Audience: Students, Professors, Government, Everyone

Presenter(s): Dr. Terry Thompson, Johns Hopkins University and University of Maryland, Baltimore County

Description:

This presentation covers a range of topics in global cybersecurity and answers questions like:

- When and how did cybersecurity become a topic of global interest?
- Which organizations are the main proponents of global cybersecurity?
- What is Internet governance and why should we care?
- What role does cybersecurity play in critical infrastructure protection?
- What are the main global cyber threats today?
- What about cybercrime, cyber espionage, and cyberwar?

The purpose of the presentation is to raise awareness about how other countries think about and address cybersecurity. While there are many similarities between the U.S. approach and how other countries think about cybersecurity, there are also some important differences. A discussion of these differences helps promote an appreciation of cybersecurity as others see it and provides a broader context for the study of cyber trends and practices in the U.S.

This presentation is based on graduate courses in global cybersecurity taught at Johns Hopkins University and the University of Maryland, Baltimore County. Dr. Terry Thompson has spent the past 15 years as a consultant in cybersecurity. He has worked extensively in the Middle East as well as the U.S., UK, and Southeast Asia. He retired from NSA in 2002 after a career of 30 years in the Federal Government.

Date: Wednesday, February 14, 2018

Time: 2:00 – 2:40 ET

Location: <https://caecommunity.zoom.us/my/caeforum>

Just log in as “Guest” and enter your name. No password required.

Title/Topic: A Scenarios-Based App to Measure Cybersecurity Skills Levels of Non-IT Professionals

Audience: Students, Professors, Government, Everyone

Presenter(s): Dr. Yair Levy, Nova Southeastern University and Dr. Melissa Carlton, Florida State University Panama City

Description:

When it comes to the protection of corporate information systems (IS), human errors and social engineering appear to prevail in circumventing IT protections. While most employees may have the best of intentions, without cybersecurity skills they represent the weakest link in an organization's IS security. Skills are defined as the combination of knowledge, experience, and ability to do something well. Cybersecurity skills correspond to the skills surrounding the hardware and software required to execute IS security to mitigate cyberattacks. However, the current measures of end-user cybersecurity skills are based on self-reported surveys or measures of knowledge only. This presentation will report results of a two-year research study that developed an application (app) to measure cybersecurity skills based on actual scenarios with hands-on tasks that permits the participants to demonstrate their skills.

To design a measure that has both high validity and reliability, this research included three phases: (1) a Delphi method approach with a set of subject matter experts (SMEs) from federal agencies and other cybersecurity experts to uncover the set of the top cyber threats, and then uncover the corresponding set of cybersecurity skills; (2) the design and development of the MyCyberSkills™ app using scenario-based, hands-on tasks related to each of the nine SMEs' identified cybersecurity skills; and (3) an assessment of 188 non-IT professionals on their level of cybersecurity skills using the MyCyberSkills™ app (available as iPad app or via <http://cec.nova.edu/~levvy/MyCyberSkills/>). This presentation will report the outcome of all three phases and provide time for open discussion about the research, its implication, along with some ideas for future research.

CAE Forum is also recorded

A recording of the live presentation will be made available for the world to see at the following address:

<https://www.caecommunity.org/cae-forum-resources>

Contact

Contact us at: caeforum@caecommunity.org