

Minutes for the CNAP Committee Meeting

August 28th, 2018 at 11:00 a.m. in HSS 506

Attended by: Drs. Waleed Farag, Crystal Machado, Ben Rafoth, and Mac Fiddner. Also attended by Alex Ashcom and Krista Sarraf.

- 1: Minutes for last meeting were unanimously approved at 11:05 a.m.
- 2: Drs. Farag and Rafoth relayed a successful meeting with the National Cyber-Forensics & Training Alliance (NCFTA) on May 23. Internships have been gained through them.
- 3: Dr. Farag relayed the success of the summer camp in June. Many thanks to staff for helping make the day possible, and thanks to the students for attending.
- 4: Discussion of the cyber security seminar on October 5 ensued. Students interested in meeting cyber professionals are encouraged to attend.
- 5: Dr. Farag relayed that students will still be encouraged to visit the Writing Center to enhance their writing and communications skills.
- 6: Dr. Fiddner discussed the possibility of follow-up meetings with the Pittsburgh Technology Council.
- 7: Other grant funding options will be pursued to continue CNAP's work.
- 8: Dr. Farag announced to the group that accounts will be closing for paying students and so any remaining unpaid balances must be paid immediately.
- 9: Dr. Fiddner and Alex Ashcom discussed a future meeting with the Indiana County Chamber of Commerce and look forward to sitting down to discuss emerging cyber security needs and other professional issues graduates may have when they enter the work force.
- 10: The group discussed the benefits of open resources (such as Purdue OWL) offered to the public by colleges and universities that greatly improve the education of the public.
- 11: Dr. Machado is continuing to analyze the data and will work towards conclusions.
- 12: Dr. Farag relayed that project reports for the NSA are due soon and will need reports from each department involved.
- 13: Dr. Farag relayed to other departments that the website could use some additional information and documents, and those departments should provide any resources they have to improve the website.
- 13: Meeting adjourned at 12:30 p.m.

Submitted by: Alex Ashcom

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on August 28, 2018

Announcements:

1. Drs. Rafoth and Farag had an interesting meeting with two members of the National Cyber-Forensics & Training Alliance (NCFTA) on May 23, 9-11 AM in Pittsburgh.
2. We had held a unique and successful summer camp on June 2018. For details, please check the camp Web Site at <https://www.iup.edu/compsci/events/cae-c-expansion/summer-camp/>.
3. We are still working on scheduling a meeting with the Indiana County Chamber of Commerce's president, Mr. James Struzzi. Alex, any updates?
4. Dr. Rafoth and Farag were working over the summer to ensure that enough financial resources are allocated to continue the tutoring service.
5. This grant's performance period will officially end on August 30. If there is any need to an urgent financial request, please let the PI know immediately.

Discussions:

1. Content and Organization of the Web Portal at www.iup.edu/caecexpansion including Multimedia contents and how to best present/organize them.
2. Updates on the ARL issue. Dr. Machado
3. ***VERY important. Final Report is due by Oct 28. We need to make sure that we document all our efforts and accomplishments. The funding agency and I expect all activities, collected data, publications, etc. that resulted from work in this project to be listed in the report.***

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:

??

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on May 17, 2018

Discussions:

1. VERY important June 4-8, 2018 summer camp preparation:
 - Guest speakers.
 - Summer student employment.
 - Ordering camp supplies and circuit boards.
 - **Completing the camp schedule. VERY Important, see most updated version of draft in attachment #3.**
 - Dr. Farag is still working on securing fund to support lunch cost.
2. Content and Organization of the Web Portal at www.iup.edu/caecexpansion including Multimedia contents and how to best present/organize them. Sarah, any updates regarding available contents??

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:

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CNAP: IUP Expansion of CAE-C Education Project Meeting Minutes for Wednesday, May 9th, 2018

Meeting was called to order at 11:00 a.m. in HSS 123

Attended by: Dr. Farag, Dr. Fiddner, Dr. Rafoth, Amber Stewart, Krista Sarraf, Alex Ashcom, and Sarah Bradshaw

1. April 2nd minutes approved unanimously.
2. Dr. Fiddner has advertised our CNAP and GenCyber camps to all 2016, 2017 GenCyber attendees, as well as to the adult attendees of the CNAP workshops. Fliers for these workshops were reviewed.
 - a. Dr. Fiddner will continue advertising for these camps by writing to the superintendents of selected school districts, requesting further publicity for the program.
3. Dr. Rafoth will attend the May 10th PTC (Pittsburgh Technology Council) STEM Summit. The morning meeting will include industry representatives (Chairwoman of the Pennsylvania Utilities Commission, along with representatives from Duquesne Light, Pennsylvania American Water Authority, Columbia Gas, Peoples Gas, AT&T, and First Energy). The afternoon will include tours of the headquarters of Duolingo and Google.
4. Dr. Fiddner reminded all members to continue to send resources, documentation, etc. to the web portal for posting.
5. Publicity for the CNAP and GenCyber Camps has been widely distributed on and off campus, to schools in the region, and to community centers.
6. A draft schedule for the CNAP camp was discussed at length, including provisions for start and end times, guest speakers, team building, featured sessions and workshops, lunch time for the participants, and final presentations. More time will be dedicated to the logistics of these camps in our upcoming meeting.

Meeting was adjourned at 12:20 pm.

Submitted by Ben Rafoth

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on May 9, 2018

Action:

1. Approval of last meeting's minutes held on May 2, 2018, see attachment #1.

Announcements:

1. We still need to complete the RI form in attachment #2 in order to explore potential funding agencies that might be interested in funding our work after the NSA fund expires. Please send your input to Dr. Farag.
2. Our CAE-C Expansion application has been extended till May 23. Online application at <https://www.iup.edu/compsci/events/cae-c-expansion/summer-camp/>. **Please spread the word.**
3. WF has given Alex color copies of all camps flyers to be distributed to local businesses in Indiana.
4. WF also contacted Michelle Fryling and Emily Smith to help publicizing the camps locally and in the surrounding areas.
5. DF has sent letters to all principals and school districts in the surrounding counties.
6. BR, WF along with a representative from IT support Services will have with the National Cyber-Forensics & Training Alliance (NCFTA) on May 23, 9-11 AM. Location TBD.
7. Students hired or the process of being hired to continue working in the summer (Krista Sarraf, Maddie, Amber Stewart, Katherine Bradshaw, Braxton Dameron, Sanelisiwe Ntini, Jackson Zaunegger, and Victor Sansing).

Discussions:

1. VERY important June 4-8, 2018 summer camp preparation:
 - Guest speakers.
 - Summer student employment.
 - Ordering camp supplies and circuit boards.
 - **Completing the camp schedule. VERY Important, see most updated version of draft in attachment #3.**
 - Dr. Farag is still working on securing fund to support lunch cost.

2. Content and Organization of the Web Portal at www.iup.edu/caecexpansion including Multimedia contents and how to best present/organize them. Sarah, any updates regarding available contents??

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:

??

CNAP: IUP Expansion of CAE-C Education Project Meeting Minutes for Wednesday, May 2nd, 2018

Meeting Commenced at 12:09pm in HSS 123

Attended by: Dr. Farag, Dr. Fiddner, Dr. Rafoth, Dr. Machado (via Zoom), Amber Stewart, Krista Sarraf, Alex Ashcom, and Sarah Bradshaw

1. April 11th minutes unanimously approved at 12:10 p.m.
2. Please submit feedback on RI form; feedback will determine the form of the final submission, and any requests will be considered. Preferably, feedback will be submitted within 7-10 days.
3. Camp Application and Information (June 4-8) has gone live; please work to publicize the camp information, as enrollment has been low, so far.
 - a. Hardcopy of camp fliers to be included with remaining letters (Westmoreland County)
 - b. IUP Daily Post on May 1
 - c. Still seeking funding for lunch—the current plan requires increasing the lunch period time as well as the amount of supervision to move students to the Northern Dining area.
 - d. Application deadline will be extended to May 23; update on website
 - e. Alex will deliver fliers to local Indiana businesses in the week following finals
 - f. Consider advertising on tvs in university buildings; sharing news post via social media, other.
4. GenCyber camp enrollment is strong; deadline for this is May 25
5. So far, no updates from PTC—send reminder to Dan Hughes and reconvene
6. Progress is being made on the research study
 - a. 75 more participants were gained through the second survey administration
 - b. Participation numbers from Westmoreland are holding at 30, professors have been sent a reminder to please administer the survey in a computer lab.
 - c. Continue targeting network administrators and programmers for more qualitative data; hopefully Dr. Fiddner's efforts will help us connect with more people.
 - d. Thanks to Dr. Rafoth/Krista for information and collaboration
7. Preparations for June 4-8 Camp
 - a. We still have funds for guest speakers. For anyone seeking to invite a guest speaker, we do still have funds, but this is time sensitive as paperwork requires 2-3 weeks to process.
 - i. Lee has other commitments; Hartle did not respond; Porsche will let us know
 - ii. Possible contacts through Dr. Machado and Dr. Fiddner
 - iii. Consider internal speakers?
 - b. Consider the need for breakout groups to differentiate students based on age, skill level
 - c. Camp Scheduling

- i. Group project during session time to reduce need for speakers
- ii. Tentatively: Five technical sessions by Dr. Farag, 2 guest speakers, 3 communication sessions by Dr. Rafoth/Krista, 3 PoliSci/critical thinking sessions by Dr. Fiddner, 1 Teambuilding session, 1 Group Project session
- iii. Finalized titles, sessions due to Dr. Farag within 1-2 weeks

Submitted by Sarah Bradshaw

qH # 2

Funding Search Form

Name		Department	
Email		Phone	
Title of Project			

Please answer the following questions as accurately and detailed as possible

1. Anticipated period of performance (timeline of project):

[Click to type your response]

2. Estimated dollar amount needed:

[Click to type your response]

3. Known collaborators (external to Indiana University of Pennsylvania):

[Click to type your response]

4. Key Words associated with potential project:

[Click to type your response]

5. Type of grant:

Research Teaching Service/Outreach Travel Other

6. Abstract summery (1 page max) of activities that grant would support:

[Click to type your response]

CNAP Draft Camp Schedule (June 4-8, 2018)

Day	One Combined Group
Monday: S1 (9:15-10:45)	External Speaker – Dr. Porche (Title - TBD)
Monday: S2 (11:00-12:30)	Cybersecurity Basic (programming / Raspberry PI) – Farag
	Lunch (12:30-1)
Monday: S3 (1:00-2:30)	Session 1 - Dr. Rafoth
Tuesday: S1 (9:15-10:45)	Team building activities (who will be in charge????)
Tuesday: S2 (11:00-12:30)	Session 1 – Dr. Fiddner
	Lunch (12:30-1)
Tuesday: S3 (1:00-2:30)	Session 2 - Dr. Rafoth
Wednesday: S1 (9:15-10:45)	Possible External Speaker 2 (TBD)*
Wednesday: S2 (11:00-12:30)	Additional Experimentation with the PI - Farag
	Lunch (12:30-1)
Wednesday: S3 (1:00-2:30)	Session 3 - Dr. Rafoth
Thursday: S1 (9:15-10:45)	Digital Forensics Investigation I - (Farag/Raj)
Thursday: S2 (11:00-12:30)	Session 2 – Dr. Fiddner
	Lunch (12:30-1)
Thursday: S3 (1:00-2:30)	Possible MS session on Critical Thinking and Creativity
Friday: S1 (9:15-10:45)	Digital Forensics Investigation 2 - (Farag/Raj)
Friday: S2 (11:00-12:30)	Session 3 – Dr. Fiddner
	Lunch (12:30-1)
Friday: S3 (1:00-2:30)	Session 4 - Dr. Rafoth

*In case of not being able to recruit the second speaker, Plan B is to have one additional session by MS teacher instructor or one by Dr. Rafoth.

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on May 2, 2018

Action:

1. Approval of last meeting's minutes held on April 11, 2018, see attachment #1.

Announcements:

1. We still need to complete the RI form in attachment #2 in order to explore potential funding agencies that might be interested in funding our work after the NSA fund expires. Please send your input to Dr. Farag.
2. Our CAE-C Expansion camp has been accepting online application for the past two week and until May 15. The flyer is included in attachment #3. **Please help spread the word as we did not get many applications so far.** Complete details are posted on the camp site at <https://www.iup.edu/compsci/events/cae-c-expansion/summer-camp/>.
3. Applications for the GenCyber camp is also available online. Flyers are included in attachments #4 & #5. Complete details are posted on the camp site at www.iup.edu/iupgencyber.

Discussions:

1. Updates on the Pittsburgh Technology Council (PTC) prospective meeting arrangement, Dr. Fiddner.
2. Discussion and updates of the findings of the Research Study and updates on visual representation.
3. VERY important June 4-8, 2018 summer camp preparation:
 - Guest speakers.
 - Supporting middle school teacher.
 - One group or two groups????
 - Summer student employment.
 - Ordering camp supplies and circuit boards.
 - **Completing the camp schedule. VERY Important, see attachment #6.**
 - Dr. Farag is still working on securing fund to support lunch cost.

4. Content and Organization of the Web Portal at www.iup.edu/caecexpansion including Multimedia contents and how to best present/organize them. Sarah, any updates regarding available contents??

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:

??

CNAP: IUP Expansion of CAE-C Education Project Meeting Minutes for Wednesday, April 11th, 2018

Meeting Commenced at 11:10 a.m. in HSS 123

Attended by: Dr. Farag, Dr. Fiddner, Dr. Rafoth, Dr. Machado (via Zoom), Amber Stewart, Krista Sarraf, and Sarah Bradshaw

1. March 28th minutes unanimously approved at 11:12 a.m.
2. The presentation of Dr. Rafoth and his students was followed up with an email to all eight participants, sharing results, and notifying them that the requested resources were assembled, edited to be more relevant to Computer Science readers/users, and made available to them.
 - a. These changed resources may be made available on the website as well, pending a check for proper organization and to prevent duplication of materials.
 - b. The suggestion was made to create a resource page for Middle/High School students, and for community access.
3. Dr. Farag met with Dr. Masilela; it is unlikely he will be able to collaborate on the grant itself due to scheduling, but expertise may be shared moving forward.
4. In the search for new sources of funding, the attachment #4 will be used. Discussion of the attached will be continued via email; possible questions, comments, and responses are appreciated.
5. Dr. Fiddner has advertised our CNAP and GenCyber camps to all 2016, 2017 GenCyber attendees, as well as to the adult attendees of the CNAP workshops. Fliers for these workshops (Attachments #5, #6 were reviewed).
 - a. Dr. Fiddner will continue advertising for these camps by writing to the superintendents of selected school districts, requesting further publicity for the program.
6. Dr. Fiddner and Dr. Rafoth finalized agenda, topics for upcoming PTC (Pittsburgh Technology Council) meeting. Title change from “Enduring Collaboration” to “Enduring Cybersecurity Education Collaboration” was approved.
 - a. A model of the agenda will be included.
 - b. Add question that asks professionals if they would be willing to be subjects for future qualitative interview surveys.
 - c. Note that Under the heading “Writing and Communications Skills Tutoring” the first bullet will be reworded to “communication needs in your organization”.
7. Communication with the IRB is ongoing.
 - a. Contact IRB representative to ensure there has been no miscommunication about the IRB, and our desire to work using a version that has already been approved in order to administer the survey again this semester.
 - i. An eligibility question asking students if they have taken the survey before was suggested to be added to avoid skewing data.

- b. It was also suggested that this, Dr. Farag, Dr. Rafoth, and Dr. Fiddner may be added as co-investigators to the project in order to handle complications associated with a “Change of Protocol” form needed to re-issue the survey.
- 8. All members will please continue to send resources, documentation, etc. to the web portal for posting.
- 9. Dates for the CNAP and GenCyber Camps have been chosen. More time will be dedicated to the logistics of these camps in our upcoming meeting.
 - a. It was decided that the CNAP camp will be offered for middle and high school students.
 - b. As things stand: The camps will run from 9-2:30 each day, and will be comprised of three sessions, following the format of previous workshops and GenCyber model.

Submitted by: Sarah Bradshaw and Waleed Farag

Funding Search Form

Name		Department	
Email		Phone	
Title of Project			

Please answer the following questions as accurately and detailed as possible

1. Anticipated period of performance (timeline of project):

[Click to type your response]

2. Estimated dollar amount needed:

[Click to type your response]

3. Known collaborators (external to Indiana University of Pennsylvania):

[Click to type your response]

4. Key Words associated with potential project:

[Click to type your response]

5. Type of grant:

Research Teaching Service/Outreach Travel Other

6. Abstract summery (1 page max) of activities that grant would support:

[Click to type your response]

Cybersecurity Skills Enhancement Camp

JUNE 4 TO JUNE 8, 2018

ATTENTION: MIDDLE AND HIGH SCHOOL STUDENTS!

- Expand your cybersecurity and technical knowledge
- Learn essential communication and critical thinking skills
- Do any of these topics interest you? Apply today by visiting www.iup.edu/caecexpansion and then clicking on summer camp in the left menu!

Location

IUP Main Campus

Questions?

cae-c-expansion@iup.edu

Program Directors

Waleed Farag, PhD
Computer Science
Ben Rafoth, PhD
English

Crystal Machado, PhD
Education
Mac Fiddner, PhD
Political Science

Advantages

- Offered at no cost!
- Electronic device for each participant!
- Instruction and mentorship from IUP faculty and other experts!
- Skills and knowledge for a growing career field!
- Hands-on learning!

Apply NOW space is limited!



www.iup.edu/caecexpansion



www.iup.edu/iupgencyber

IUP's 2018

Combination GenCyber Camp

JUNE 18 TO JUNE 22, 2018

**IUP GENCYBER: CYBERSECURITY CAMP FOR
MIDDLE AND HIGH SCHOOL STUDENTS**

- Learn detailed information about cybersecurity basics
- Learn hacking defense techniques
- Acquire skills to land your dream job
- Do any of the topics interest you? Apply today at www.iup.edu/iupgencyber

Through this opportunity, you will learn safe online behavior, increase knowledge of cyberspace, and explore cybersecurity careers.

Advantages*

Offered at no cost!

Sphero Ollie Robot for each participant!

FREE lunch and afternoon snack!

Instruction and mentorship from IUP faculty and other experts!

Skills and knowledge for a growing career field!

Apply NOW space is limited!

Questions?

gen-cyber@iup.edu

Location:

IUP main Campus

Project PI and Co-PI

Waleed Farag, PhD

PI - Computer Science

Soundararajan Ezekiel, PhD

Co-PI - Computer Science



*program is contingent on funding released by NSA

www.iup.edu/iupgencyber

477 #5

IUP's 2018 Combination GenCyber Camp

JUNE 18 TO JUNE 22, 2018

**IUP GENCYBER: CYBERSECURITY CAMP FOR
MIDDLE AND HIGH SCHOOL TEACHERS**

- Learn detailed information about cybersecurity
- Learn about promising careers for students
- Acquire skills to change the future of your students
- Do any of the topics interest you? Apply today by visiting www.iup.edu/iupgencyber

Through this opportunity, you will learn safe online behavior, become part of the solution to the nation's shortage of skilled cybersecurity professionals, and help inspire young people to join the field

Advantages*

Offered at no cost!

\$500 stipend
for each participant!

Act 48 Credits

FREE lunch and
afternoon snack!

Mileage reimbursement
for those who qualify

Multidisciplinary
cybersecurity teaching
skills, and modules to be
used in the classroom!

Apply NOW space
is limited!

Questions?

gen-cyber@iup.edu

Location:

IUP main Campus

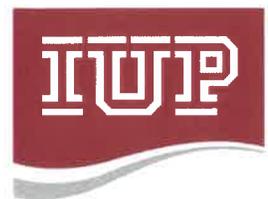
Project PI and Co-PI

Waleed Farag, PhD

PI - Computer Science

Soundararajan Ezekiel, PhD

Co-PI - Computer Science



*program is contingent on funding released by NSA

CNAP Draft Camp Schedule

Day	G1	G2
Monday: S1 (9:15-10:45)		
Monday: S2 (11:00-12:30)		
	Lunch (12:30-1)	
Monday: S3 (1:00-2:30)		
Tuesday: S1 (9:15-10:45)		
Tuesday: S2 (11:00-12:30)		
	Lunch (12:30-1)	
Tuesday: S3 (1:00-2:30)		
Wednesday: S1 (9:15-10:45)		
Wednesday: S2 (11:00-12:30)		
	Lunch (12:30-1)	
Wednesday: S3 (1:00-2:30)		
Thursday: S1 (9:15-10:45)		
Thursday: S2 (11:00-12:30)		
	Lunch (12:30-1)	
Thursday: S3 (1:00-2:30)		
Friday: S1 (9:15-10:45)		
Friday: S2 (11:00-12:30)		
	Lunch (12:30-1)	
Friday: S3 (1:00-2:30)		

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on April 11, 2018

Action:

1. Approval of last meeting's minutes held on March 28, 2018, see attachment #1.

Announcements:

1. Dr. Rafoth and his students delivered a brief presentation on April 2 to the faculty of the Computer Science Department to promote the project services. See attachment #2 for the proposed presentation points and attachment #3 for survey results.
2. Dr. Farag has contacted Dr. Masilela regarding possible collaboration. The UBMS program will not start till mid-June 2018.
3. Dr. Farag contacted the RI to explore potential funding agencies that might be interested in funding our work after the NSA fund expires. They want us to complete the form in attachment #4.
4. Dr. Fiddner has started communicating with all previous GenCyber camp teachers to announce for our CNAP and GenCyber camps. GenCyber camp will be held in the week of June 18-22, 2018. See GenCyber camp fliers in attachments #5 and #6.

Discussions:

1. Dr. Fiddner, with the help of Dr. Rafoth, came up with the final version of the agenda/topics (see attachment #7) to be discussed with the Pittsburgh Technology Council (PTC) in a meeting between us and PTC personnel that will be facilitated by Dan Yuhas, IUP IT manager.
2. Discussion and updates of the findings of the Research Study and updates on visual representation.
3. We need to address the issues with IRB approval so that we can collect data this semester too. Proposed courses are COSC 300, 356, 454, & 432. Other courses will also be included. Tentative schedule is below:
 - COSC 300: Tuesdays at 10:30 AM in 320 Stright Hall
 - COSC 432: Thursdays at 10:30 AM in 320 Stright Hall
 - COSC 356: M/W/F at 9:40 AM in 107A Stright Hall
 - COSC 454: T/R at 1:30 PM in 107A Stright Hall

4. Content and Organization of the Web Portal at www.iup.edu/caecexpansion including Multimedia contents and how to best present/organize them.
5. Planning for the June 4th summer camp.
6. Sarah, updates regarding MM editing (pictures and videos) and posting on the project Web portal.

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:

??

CNAP: IUP Expansion of CAE-C Education Project

Meeting Minutes for Wednesday, March 28th, 2018

Meeting Commenced at 10:50 a.m. in HSS 123.

Attended by: Dr. Farag, Dr. Fiddner, Dr. Rafoth, Alex Ashcom, Amber Stewart, Krista Sarraf, Sarah Bradshaw, Dameron Braxton, and Hunter Sargent

1. March 7th minutes unanimously approved at 10:50 a.m.
2. Dr. Rafoth will hold a meeting with Computer Science faculty on April 2nd to discuss the importance of the grant.
3. Dr. Fiddner will edit agenda being sent to Pittsburgh Technology Council (PTC) to include subjects of research and other updates.
4. Our team will work on collecting more data from Cyber-Security classes offered this spring.
5. Braxton and Sarah will continue to progress the organization's website by adding the videos of the workshop to the "PowerPoint and Videos" menu.
6. The date of the Summer camp will be the Week of June 4th. Exact dates are still being determined due to Dr. Farag being out of state for NSA related meetings.
7. X
8. The committee agrees to have the June 4 daily camp schedule similar to the workshops we offered (9:00 AM – 2:30 PM).
9. Dr. Farag will contact Dr. Calvin Masilela to explore possible collaboration between our program and his UBMS program.

10. Dr. Farag will contact the IUP research Institute to discuss possible funding sources to continue this project after the NSA grant expires.
11. The committee decided to limit participation in the proposed summer camp on the week of June 4-8, 2018 to middle and high-school students from surrounding school districts.
12. Meeting adjourned at 11:35 a.m.

Submitted By: Hunter Sargent and Waleed Farag.

COSC Faculty Meeting Monday, April 2, 2018 at 8:00 am

- I. Who are we and why are we here?
 - a. Dr. Ben Rafoth, Professor, English Department; The Jones White Writing Center
 - b. Ms. Krista Sarraf, Doctoral Student, Composition and Applied Linguistics
 - c. Ms. Jing Zhang, Doctoral Student, Composition and Applied Linguistics
 - i. We are all working with Dr. Farag on the CNAP grant, whose goal is to improve technical and communication skills among cyber security students in rural western PA.
 - ii. We are here to (1) acquaint you with what we are doing, (2) to invite you to take advantage of resources to benefit your students, and (3) to give us your feedback on a brief questionnaire).
- II. How are we helping Dr. Farag's students improve their writing?
 - a. We are using a strategy: Assign, Require, Revise, Reply.
 - i. Dr. Farag gives his students a writing assignment
 - ii. The assignment requires students to meet with a tutor or submit asynchronously
 - iii. The student drafts, revises, and edits – with assistance from the tutor.
 - iv. The tutor sends Dr. Farag a brief report of the visit (reply).
 - b. Tutors are trained and supervised [Alex Ashcom, Criminal Justice?; Alyssa Chesnutwood, Biology; Emily O'Donnell, English Education; Hunter Sargent, Computer Science; Maddie Hornstein, Biochemistry and Computer Science; Tori Murray, History and Anthropology?]
- III. What resources are available?
 - a. For students: Tutoring is available (1) face-to-face in Stright and Eicher; and (2) synchronously and asynchronously on our website. Additional help is available in our growing collection of videos and help sheets.
 - b. For faculty: We provide Faculty Reports for tutoring sessions; We can coordinate your assignments with the tutors; We have cut-and-paste text for your syllabus on our website.
- IV. What does our research tell us about the writing skills of cyber security students and professionals?
 - a. Students report that they are very confident they have the writing and speaking skills they need.
 - b. Students report that they use online resources such as Grammarly.
 - c. Professionals report that they do a lot of writing (much more than they expected when they were college students)
 - d. Professionals report that their biggest challenge is adjusting their writing for different audiences.

Quick Survey

Please respond to the following.

1. Do you give your students assignments that require them to write more than a paragraph or two? (circle one)

Hardly ever

Sometimes

Often

Almost always

2. In general, how would you rate the quality of your students' writing? (circle one)

1

2

3

4

5

Unclear

Disorganized

Wordy

Error-filled

Clear

Organized

Concise

Error-free

Unable to Judge

3. Would you be interested in learning more about any of the following resources available to you? (please check)

Short videos on topics related to effective writing

Handouts for students (available electronically)

Workshops for your students

Tips for faculty on designing writing assignments

Tips for grading writing

One-to-one tutoring for your students

Other: (please describe)

If you checked any of the boxes above, please provide:

Name: _____ **E-mail address:** _____

4. Would you be interested in resources for your students on any of the following topics? (please check)

Using technical and nontechnical language

Email communication

Organization

Transitions

Thesis statements

Paragraphs

Sentence structure

Punctuation

- Grammar
- Word Choice
- Proofreading
- Other: (please describe)

When finished, please fold and we will collect. Thank you.



att #3

April 10, 2018

Dear IUP Computer Science Faculty Member,

Following up on our presentation at the April 2nd faculty meeting, we would like to share the survey results with you and respond to your requests for specific writing resources.

Survey Results of COSC Faculty Members (n = 8)

1 Do you give your students assignments that require them to write more than a paragraph or two?

Hardly ever (0) Sometimes (5) Often (1) Almost always (2)

2 In general, how would you rate the quality of your students' writing?

1 (0) 2 (4) 3 (4) 4 (0) 5 (0)
(Unclear, dis-organized, wordy, error-filled) (Clear, organized, concise, error-free) Unable to Judge

3 Here are the Top Five resources COSC faculty wanted to learn more about – and how to access them.

Writing Resources

How to Access Them

- | | |
|--|--|
| 1. Online handouts for students | See 4 below. |
| 2. Online short videos to improve writing | See 4 below. |
| 3. Improving my students' writing while adding little or no time to my workload. | Practice and feedback are keys to improving writing. Here are 3 things to try:
■ Take 3 minutes at the end of class and ask everyone to recap, in writing, what they learned. ■ Award points for meeting with a writing tutor. ■ Give students short writing assignments, require them to meet with a tutor before submitting, and mark the papers Credit/No credit. |
| 4. Workshops for my students | The Jones White Writing Center offers workshops on lots of topics. Visit our website www.iup.edu/writingcenter and call 7-3029 to schedule. |
| 5. Tips for faculty on designing and grading writing assignments | Contact the Writing Across the Curriculum Director , Dr. Bryna Siegel Finer, at brynasf@iup.edu . Bryna welcomes the chance to help faculty with writing assignments and to coordinate with the writing center. |

4 You indicated interest in these resources for your students. They are available!

Using technical and nontechnical language	Writing reports and proposals	Punctuation
E-mail communication	Paragraphs	Word Choice
Organization	Avoiding plagiarism	Proofreading
Transitions	Formatting	Grammar
Thesis statements	Sentence structure	Word Choice

All of these resources are now available to you on X: Public -> Writing Resources -> Library for Computer Science Faculty

IUP's Jones White Writing Center helps hundreds of students each semester.

E-mail Dr. Ben Rafoth at brafoth@iup.edu or call me at 7-3029 to learn more.

Funding Search Form

Name		Department	
Email		Phone	
Title of Project			

Please answer the following questions as accurately and detailed as possible

1. Anticipated period of performance (timeline of project):

[Click to type your response]

2. Estimated dollar amount needed:

[Click to type your response]

3. Known collaborators (external to Indiana University of Pennsylvania):

[Click to type your response]

4. Key Words associated with potential project:

[Click to type your response]

5. Type of grant:

Research Teaching Service/Outreach Travel Other

6. Abstract summary (1 page max) of activities that grant would support:

[Click to type your response]

4H #5

www.iup.edu/iupgencyber

IUP's 2018

Combination GenCyber Camp

JUNE 18 TO JUNE 22, 2018

**IUP GENCYBER: CYBERSECURITY CAMP FOR
MIDDLE AND HIGH SCHOOL STUDENTS**

- Learn detailed information about cybersecurity basics
- Learn hacking defense techniques
- Acquire skills to land your dream job
- Do any of the topics interest you? Apply today at www.iup.edu/iupgencyber

Through this opportunity, you will learn safe online behavior, increase knowledge of cyberspace, and explore cybersecurity careers.

Advantages*

Offered at no cost!

Sphero Ollie Robot for each participant!

FREE lunch and afternoon snack!

Instruction and mentorship from IUP faculty and other experts!

Skills and knowledge for a growing career field!

Apply NOW space is limited!

Questions?

gen-cyber@iup.edu

Location:

IUP main Campus

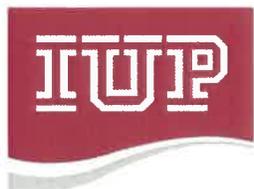
Project PI and Co-PI

Waleed Farag, PhD

PI - Computer Science

Soundararajan Ezekiel, PhD

Co-PI - Computer Science



*program is contingent on funding released by NSA

www.iup.edu/iupgencyber

IUP's 2018

Combination GenCyber Camp

JUNE 18 TO JUNE 22, 2018

**IUP GENCYBER: CYBERSECURITY CAMP FOR
MIDDLE AND HIGH SCHOOL TEACHERS**

- Learn detailed information about cybersecurity
- Learn about promising careers for students
- Acquire skills to change the future of your students
- Do any of the topics interest you? Apply today by visiting www.iup.edu/iupgencyber

Through this opportunity, you will learn safe online behavior, become part of the solution to the nation's shortage of skilled cybersecurity professionals, and help inspire young people to join the field

Advantages*

Offered at no cost!

\$500 stipend
for each participant!

Act 48 Credits

FREE lunch and
afternoon snack!

Mileage reimbursement
for those who qualify

Multidisciplinary
cybersecurity teaching
skills, and modules to be
used in the classroom!

Apply NOW space
is limited!

Questions?

gen-cyber@iup.edu

Location:

IUP main Campus

Project PI and Co-PI

Waleed Farag, PhD

PI - Computer Science

Soundararajan Ezekiel, PhD

Co-PI - Computer Science



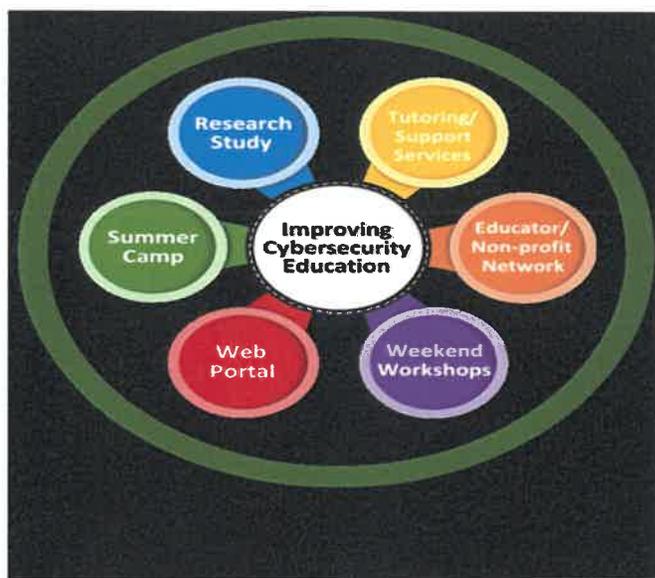
*program is contingent on funding released by NSA

ENDURING COLLABORATION

We requested and the IUP's Office of IT Services facilitated this meeting with the Pittsburgh Technology Council (PTC) because:

- (1) We would like to describe our model and why we believe it may be of interest to you,
- (2) We seek your advice about whether the model addresses needs in the Western Pennsylvania and Pittsburgh area, and if so, then
- (3) We seek your support in disseminating it through your community of IT professionals, and
- (4) We ask you to help us identify ways to support the model once NSA funding ceases.

The PTC, as the foremost IT professional organization within the Western Pennsylvania region, provides expertise and resources to help provide better educated cybersecurity employees and a better-informed public about cybersecurity. We welcome this opportunity to meet with the PTC to help build a collaborative cybersecurity education network/community as part of a National Security Agency (NSA) grant to develop and sustain a scalable, portable model for use anywhere in the United States to "improve and expand cybersecurity education in rural areas." Our research has identified a gap in the communication skills of cybersecurity students and professionals, specifically critical thinking and related oral and written communication skills, and our project aims to address this gap through instruction, workshops, tutoring, and online resources.



The full scope of the IUP team's effort can be accessed at its website, <https://www.iup.edu/compsci/events/cae-c-expansion/>

Writing and Communications Skills Tutoring

Our project offers specialized STEM-related cybersecurity writing tutors for cybersecurity/computer science undergraduate students. Tutors meet students face-to-face at multiple locations and online. The online/virtual service has been expanded to cybersecurity students at Westmoreland County Community

College (WCCC) and Pennsylvania Highlands Community College (Cambria County). Dr. Waleed Farag, PI, and Dr. Ben Rafoth, Co-PI, are also working with faculty in the Computer Science Department to design assignments for students that develop both technical and writing skills.

- **(PTC)** Provide advice to improve tutoring process and tools, e.g., videos/powerpoint presentations
- **(IUP)** Provide instruction, workshops, tutoring, and online resources to interested organizations
 - Less than 10 hours of one-to-one consultations and tutoring services per month: No charge
 - Ten or more hours of services per month: Hourly or project-based terms negotiable.
- **(IUP)** Provide editing and research services to interested organizations
- **(PTC)** Provide support to continue undergraduate tutoring program once NSA grant expires

Research - Undergraduate and IT professionals surveys of writing and communication skills

- **(IUP)** Provide results of undergraduate and IT professional survey results if desired
- **(PTC)** Review results of undergraduate surveys for utility and scope
- **(PTC)** Provide IT professional subjects for interviews to expand sample size and gather additional data on their perceptions of skills undergraduates are lacking when they enter the workforce from more subjects ← I don't understand how this relates to the proposal.

Internships focused on critical thinking and communication skills involved in IT/cybersecurity professions (?)

(PTC) Provide paid (preferable) or unpaid internships for undergraduates during academic breaks (summer, winter, or spring) or during academic terms of indeterminate or predetermined duration

Shadowing to observe the variety and frequency of critical thinking and communication skills involved in IT/cybersecurity professions

(PTC) Allow individuals or groups of undergraduate or high school students to observe an IT professional(s) performing their usual daily routine for any period of time from a couple of hours, a day, a couple of days, or for as long as the parties agree

Mentoring

(PTC) Provide IT professionals to serve as an advisor to guide student(s) in their professional/academic pursuits

Speakers

- **(PTC)** Provide IT professionals as speakers for cybersecurity-related events, e.g., Cybersecurity Day events, workshops, summer camps, classes, and any other occasion that might publicize and inform the public and prospective practitioners of IT/cybersecurity topics
- **(IUP)** Faculty and management to provide similar service within their areas of expertise

Expert Instructors

- **(PTC)** Provide IT professionals to guest lecture in scheduled classes and instruct at workshops and summer camps
- **(IUP)** Faculty and management to provide similar service within their areas of expertise

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on March 28, 2018

Action:

1. Approval of last meeting's minutes held on March 7, 2018, see attachment #1.

Announcements:

1. We have held a well-received third Cybersecurity Skill Improvement Weekend Workshop last Saturday, March 24, at the Westmorland County Community College.
2. Next CAE Tech talk is scheduled on April 19th, 2018 from 1:10 PM – 1:50 PM. The webinar title is “Apache Metron and Apache Spot – big data tools for cybersecurity”. I reserved room 331 Stright Hall for this event. Please check the flyer in attachments #2 for additional details. Please encourage anyone who might be interested to attend.
3. Dr. Rafoth and his students will deliver a brief presentation (tentatively scheduled on April 2) to the faculty of the Computer Science Department to promote the project services. See attachment #3.

Discussions:

1. Dr. Fiddner came up with plan/topics (see attachment #4) to be discussed with the Pittsburgh Technology Council (PTC) in a meeting between us and PTC personnel that will be facilitated by Dan Yuhas, IUP IT manager.
2. Discussion and updates of the findings of the Research Study and updates on visual representation.
3. We need to collect data from Cybersecurity courses offered this semester too. These are COSC 356, 454, & 432. Other courses can also be included.
4. Content and Organization of the Web Portal at www.iup.edu/caecexpansion including Multimedia contents and how to best present/organize them.
5. Summer camp and possible collaboration with UBMS. Tentative date, the week of June 4th.
6. Braxton and Sarah, updates regarding MM editing (pictures and videos) and posting on the project Web portal.

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:

??

CNAP: IUP Expansion of CAE-C Education Project Meeting Minutes for Wednesday, March 7, 2018

Meeting Commenced at 11:05 a.m. in HSS 123

Attended by: Dr. Farag, Dr. Machado, Dr. Fiddner, Dr. Rafoth, Alex Ashcom, Amber Stewart, and Krista Sarraf, Dameron Braxton and Sarah Bradshaw

- 1: Amendment 1 to fix Kevin Slonka's name in Minutes for February 21st, 2018.
- 2: February 21st minutes were unanimously approved with amendment 1 at 11:09 a.m.
- 3: Dr. Fiddner will continue to recruit attendees for March 24th workshop.
- 4: Dr. Rafoth will create short presentations as tools for teachers to better assist students in their writing.
- 5: Organization of the writing and communication skills tutoring page will be adjusted.
- 6: Dr. Farag will consider an update to the CAE-C portal to be more visually appealing.
- 7: Dr. Farag will upload Dr. Fiddner's community draft to the web portal.

8: Dr. Fiddner will create a letter to be distributed to local school districts, inviting them to join CNAP.

9: Dr. Rafoth will approach a possible candidate for computer science assistance for the project over summer.

10: Dr. Rafoth will provide a bar graph on cyber tutoring sessions.

11: Dr. Machado will edit certain interview questions to ask about services IUP offers to enhance cybersecurity students' learning.

12: The Research Institute will be asked to find possible funding opportunities to enable us to continue this project beyond the end of this academic year.

13: The collective will work on ways to improve the abilities of students to perform the important skills identified in the interviews of professionals.

14: Dr. Farag and Dr. Fiddner will begin initial planning steps for the summer camp.

15: Multiple avenues of advertisement for summer camps will be explored by the collective.

Submitted by: Alex Ashcom and Waleed Farag

att #2



CAE Tech Talk

National Centers of Academic Excellence



19 April 2018

Apache Metron and Apache Spot – big data tools for cybersecurity (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, 19 April 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: Apache Metron and Apache Spot – big data tools for cybersecurity

Audience Skill Level: All levels

Presenter(s): Dr. Alex Rudniy from Fairleigh Dickinson University

Description:

The webinar will introduce audience to two new competing big data tools for cybersecurity, Apache Metron and Apache Spot operating as an integral part of Hadoop ecosystem. The presentation will walk you through the evolution, features, use cases, benefits and deployment. These tools are used for developing cybersecurity learning experiences as part of a bigger

project sponsored by the National Security Agency under Grant/Cooperative Agreement (Cybersecurity Workforce Education - CNAP Initiatives) No. H98230- I 7- I -032 I at Fairleigh Dickinson University. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author and do not necessarily reflect the views of the National Security Agency. The author will describe the goals of the big data portion of the project, its current status and steps underway. A Q&A session will conclude the session.

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

COSC Faculty Meeting Monday, April 2, 2018 at 8:00 am

- I. Who are we and why are we here?
 - a. Dr. Ben Rafter, Professor, English Department; The Jones White Writing Center
 - b. Ms. Krista Sarraf, Doctoral Student, Composition and Applied Linguistics
 - c. Ms. Jing Zhang, Doctoral Student, Composition and Applied Linguistics
 - i. We are all working with Dr. Farag on the CNAP grant, whose goal is to improve technical and communication skills among cyber security students in rural western PA.
 - ii. We are here to (1) acquaint you with what we are doing, (2) to invite you to take advantage of resources to benefit your students, and (3) to give us your feedback on a brief questionnaire).
- II. How are we helping Dr. Farag's students improve their writing?
 - a. We are using a strategy: Assign, Require, Revise, Reply.
 - i. Dr. Farag gives his students a writing assignment
 - ii. The assignment requires students to meet with a tutor or submit asynchronously
 - iii. The student drafts, revises, and edits – with assistance from the tutor.
 - iv. The tutor sends Dr. Farag a brief report of the visit (reply).
 - b. Tutors are trained and supervised [Alex Ashcom, Criminal Justice?; Alyssa Chesnutwood, Biology; Emily O'Donnell, English Education; Hunter Sargent, Computer Science; Maddie Hornstein, Biochemistry and Computer Science; Tori Murray, History and Anthropology?]
- III. What resources are available?
 - a. For students: Tutoring is available (1) face-to-face in Stright and Eicher; and (2) synchronously and asynchronously on our website. Additional help is available in our growing collection of videos and help sheets.
 - b. For faculty: We provide Faculty Reports for tutoring sessions; We can coordinate your assignments with the tutors; We have cut-and-paste text for your syllabus on our website.
- IV. What does our research tell us about the writing skills of cyber security students and professionals?
 - a. Students report that they are very confident they have the writing and speaking skills they need.
 - b. Students report that they use online resources such as Grammarly.
 - c. Professionals report that they do a lot of writing (much more than they expected when they were college students)
 - d. Professionals report that their biggest challenge is adjusting their writing for different audiences.

Quick Survey

Please respond to the following.

1. Do you give your students assignments that require them to write more than a paragraph or two?
(circle one)

Hardly ever

Sometimes

Often

Almost always

2. In general, how would you rate the quality of your students' writing? (circle one)

1

2

3

4

5

Unclear
Disorganized
Wordy
Error-filled

Clear
Organized
Concise
Error-free

Unable to Judge

3. Would you be interested in learning more about any of the following resources available to you?
(please check)

- Short videos on topics related to effective writing**
- Handouts for students (available electronically)**
- Workshops for your students**
- Tips for faculty on designing writing assignments**
- Tips for grading writing**
- One-to-one tutoring for your students**
- Other: (please describe)**

If you checked any of the boxes above, please provide:

Name: _____ **E-mail address:** _____

4. Would you be interested in resources for your students on any of the following topics? (please check)

- Using technical and nontechnical language**
- Email communication**
- Organization**
- Transitions**
- Thesis statements**
- Paragraphs**
- Sentence structure**
- Punctuation**

- Grammar
- Word Choice
- Proofreading
- Other: (please describe)

When finished, please fold and we will collect. Thank you.

ENDURING SUPPORT

aH #4

Tutoring

- 1 GA @ \$24,000 (\$14,000 out-of-state waiver + \$10,000 stipend).
- Tutors' wages @ \$5,400 (20 hours per week x \$9 x 30 weeks).
- Software @ \$300

Total: ~ \$30,000

Possible funding or personnel for:

Internships

Paid (preferable) or unpaid for summer or during academic terms

Shadowing

For any period of time from a couple of hours, a day, a couple of days, to longer

Mentoring

Advisor to guide student(s) in their professional/academic pursuits

Speakers

For cybersecurity-related events, e.g., Cybersecurity Day events, workshops, summer camps, classes, and any other that might publicize and inform public and prospective practitioners

Expert Instructors

Guest lecturers, workshops, summer camps

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on March 7, 2018

Action:

1. Approval of last meeting's minutes held on February 21, 2018, see attachment #1.

Announcements:

1. Please continue to store all information and/or work on the grant shared folder on X:\ drive.
2. Dr. Porche has agreed to be the guest speaker at the upcoming Cybersecurity Workshop on March 24 to be held at Westmoreland County Community College (WWWC).
3. Coordination with WCCC is underway to take care of all workshop logistics. WCCC will sponsor the lunch for all participants.
4. WF communicated with Krista the new assignments in COSC 454 and COSC 356 that have writing components so that Tutoring be offered based on the assignment requirements.
5. In response to a suggestion by Dr. Rafoth, WF has contacted the Computer Science Department chair who promised to give us about 20 minutes in an upcoming Department meeting (most probably on April 2) to present our findings and resources to the faculty.

Discussions:

1. Discussion and updates of the findings of the Research Study, see Attachment 2.
2. Content and Organization of the Web Portal at www.iup.edu/caecexpansion including Multimedia contents and how to best present/organize them.
3. Contents for the Cybersecurity Community and Research Study on the Web Portal??? Also, need content for the proposed new page for faculty resources.
4. Mid-year grant progress report to the funding agency, NSA, see draft (excluding attachments) in attachment #3.
5. Summer camp and possible collaboration with UBMS.
6. Dr. Fiddner came up with a plan/topics (see attachment #4) to be discussed with the Pittsburgh Technology Council (PTC) in a meeting between us and PTC personnel that will be facilitated by Dan Yuhas, IUP IT manager.

7. Braxton and Sarah, updates regarding MM editing (pictures and videos) and posting on the project Web portal.

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:

??

Minutes for the CNAP Committee Meeting

February 21, 2018 at 11:00 AM in 123 HSS

Attended by: Drs. Waleed Farag, Crystal Machado, Ben Rafoth, Alex Ashcom, Sarah Bradshaw, Amber Stewart, Braxton Dameron, and Hunter Sargent.

Excused: Dr. Mac Fiddner

1. The minutes of last meeting were unanimously approved at 11:05 AM.
2. SB is going to place videos and edited pictures on the shared drive to be posted on the project landing page/workshop pages to give an overview of the workshops.
3. WF will request a title name change from the web team to “Cybersecurity Skill Zone”.
4. BR and WF will contact Dr. Andrew Barnette from WCCC and work on finding funds for food at the March 24th workshop.
5. AA and DF will work on completing “Cybersecurity Community” page with visuals and more information.
6. DF will contact Dr. Kevin Sloan of Penn Highlands Community College to see if he would like to collaborate in this project.
7. The group discussed creating Qualitative and Quantitative visuals of the feedback received from the previous workshops for the web page.
8. WF has briefly discussed the outcomes of his meeting with two IUP IT managers that was organized and facilitated by DF on Feb. 8, 2018.

9. The group discussed using Kahoot/Mentimeter during presentations for student feedback and interaction.
10. AS will work on converting the questions from the research study to a Word document so we all have a copy.
11. BR, DF, CM, will turn in their Mid-year grant progress report to WF by the end of the month so he can compile then send in the mid-year report to the NSA.
12. Meeting was adjourned at 12:45 PM.

Submitted by Hunter Sargent and Waleed Farag

Qualitative Tables

PARTICIPANTS

Table 1. Descriptive Characteristics of Interviewees

Descriptive characteristics	f	%
Gender		
Males (majority males)	15	75
Females	4	20
Other	1	5
Age		
25-30 (majority beginning professionals)	8	40
31-35	1	5
36-40	5	25
41-45	2	10
46-50	0	0
51 and above	3	15
Other	1	5
Location (Work) (nice balance here)		
Rural	10	50
Urban	10	50
Years in the Field (nice balance here)		
1-5 years	6	30
6-10 years	3	15
11-15 years	1	5
16 or more	5	25
Not asked	5	25

Table 2. Job Designation of Interviewees

Job Designation of Interviewees	f	%
IT Faculty/Teacher	1	5
IT Tech Support	2	10
Network/System Admin	4	20
IT Trainer/Analyst (majority)	8	40

IT Director/Manager	3	15
Software Engineer/Programmer	2	10
Total	20	100

WRITING SKILLS

KINDS OF WRITING

Table 3. Types of Writing Identified by Interviewees

Kinds of Writing	f	%
Email	19	95
Reports	9	45
Procedures	8	40
Training Modules	6	30
Documentation	5	25
Memos	3	15
Texts/apps	2	10
Pictures	2	10
Policy	2	10
PowerPoints	1	5
Curriculum	1	5
Webpages	1	5
Checklist	1	5
Others		

WRITING CONFIDENCE

Table 4a. Writing Confidence (put the participant numbers in the cell. You may have more than one in each cell.

Writing Confidence		Very Confident	Confident	Average Confidence	Low/No Confidence
Location					
	Rural	Marcus, Jonathon, Roxy	Josiah, Shane, Drew		
	Suburban				
	Urban	Lucas, Joseph	Roger, Rex, Zac, Brian		
	Unclear	Ceaser	Danae, Manny, Raymond, Lisa	Nick, Greg,	
Age in Years					
	25-35	Marcus, Joseph	Shane, Zac, Manny, Brian, Raymond	Nick, Kasey	
	36-45	Lucas, Ceaser	Josiah, Rex, Danae, Lisa	Greg,	
	46-55		Drew		
	56-65	Jonathon, Roxy			
Number of Years as a Professional					
	0-2	Joseph	Zac, Brian,		
	3-5		Shane, Raymond,	Kasey	
	6-8	Lucas,	Rex, Manny,		
	9-11	Marcus,			
	12 or more	Roger, Jonathon,	Roger, Josiah, Drew, Lisa		
Job Training					
	Yes		Roger, Josiah, Rex, Shane, Manny, Raymond	Nick, Greg	

	No	Lucas, Marcus, Jonathon, Joseph, Roxy	Drew, Zac, Brian, Lisa	Kasey	
	Not asked by Interviewer	Ceaser	Danae		
Writing Description					
	Performance Accomplishment (i.e. past experience)	Lucas, Marcus, Jonathon, Joseph, Ceaser, Roxy	Roger, Josiah, Rex, Danae, Shane, Drew, Zac, Manny, Brian, Raymond, Lisa	Nick, Greg, Kasey	
	Vicarious Experience (i.e. modelling by others)	Lucas, Jonathon, Joseph, Ceaser	Roger, Danae, Shane, Zac, Lisa		
	Social Persuasion (i.e. coaching and evaluative feedback)	Lucas, Marcus, Jonathon, Joseph, Ceaser, Roxy	Josiah, Danae, Shane, Drew, Manny, Raymond, Lisa	Nick,	
	Physiological and Emotional States	Lucas, Joseph, Ceaser	Josiah, Rex, Zac		
Wrt Col Dis					
	Yes	Lucas, Jonathon, Joseph, Roxy	Roger, Josiah, Danae, Drew, Zac, Manny, Brian, Lisa	Nick, Greg, Kasey	
	No	Marcus, Ceaser	Rex, Raymond		
	Unsure		Shane		
	Unclear/Not asked by Interviewer				
Wrt Dis					
	Yes	Lucas, Marcus, Roxy	Roger, Danae, Shane, Drew, Zac, Manny, Raymond, Lisa	Greg	
	No		Brian		
	Unsure				
	Unclear/Not asked by Interviewer	Jonathon, Joseph, Ceaser	Josiah, Rex	Nick, Kasey	

Table 4b. Interviewees Writing Confidence Organized by other Variables

Writing Confidence	Very Confident	Confident	Average Confidence	Low/No Confidence	
Location					N
Rural	3	3			10
Urban	2	4			10
Unclear	1	4	2		7
Age in Years					
25-35	2	5	2		9
36-45	2	4	1		7
46-55		1			1
56-65	2				2
Number of Years as a Professional					
0-2	1	2			3
3-5		2	1		3
6-8	1	2			4
9-11	1				1
12 or more	2	4			6
Job Training					
Yes		6	2		8
No	5	4	1		10
Not asked by Interviewer	1	1			2
Writing Description					
Performance Accomplishment (i.e. past experience)	6	11	3		20
Vicarious Experience (i.e. modelling by others)	4	5			9
Social Persuasion (i.e. coaching and evaluative feedback)	6	7	1		7
Physiological and Emotional States	3	3			6

Writing Dissatisfaction – Expressed by Colleagues					
Yes	4	8	3		15
No	2	2			4
Unsure		1			1
Unclear/Not asked by Interviewer					
Writing Dissatisfaction - Self					
Yes	3	8	1		12
No		1			1
Unsure					0
Unclear/Not asked by Interviewer	3	1	2		6

Table 5. Writing Dissatisfaction: Illustrative Quotes (Amber, copy and paste the quotes here so we can compare between and across categories) – the X show that that person commented in each area. We may end up deleting the people who did not contribute ideas related to both – for now, just add them in so that we can analyze them further.

Level Confidence	Dissatisfaction Expressed by Colleagues (15 people)	Dissatisfaction with Self (12 people)
Very Confident		
Lucas	<p>X</p> <p>Interviewer: Um, how about something you were dissatisfied with or weren't satisfied with.</p> <p>Participant: I'm never satisfied with it.</p> <p>Interviewer: What particular things?</p> <p>Participant: Ah, well that's always just going to be one of those things, I can read the same thing three times, and I can always find something I want to change. Um, you know, it goes back to editing</p>	<p>X</p> <p>Interviewer: (Pause) Sorry, I'm look at the next question here. Can you describe a time when you produced something in writing that did not meet with the satisfaction of your colleagues?</p> <p>Participant: Uh, which time do you want? yeah, coming from the creative fields, that happened all the time. Um, so, yeah. What do you want to know about it?</p>

IUP 2017-2018 Expansion of CAE-C Program Mid-year Report

Table of Content

A. Executive Summary.....	2
Brief Description.....	2
B. Tutoring/Support Service	4
C. Research Component.....	6
D. Weekend Cybersecurity Workshops	7
E. Building a Cybersecurity Community (educator/non-profit network).....	9
F. Web Portal	13
G. Summer Camp	13
H. Project Documents.....	14
I. Project Media Coverage	14
J. Project Administration.....	14
Appendix 1: Representative Initial Findings of the Quantitative Research Study	15
Appendix 2 – Examples of Flyers and Advertisement of the Weekend Workshops.....	29
Appendix 3 – Examples of Email Correspondences to Foster the Proposed Cybersecurity Community in Western Pennsylvania	32
Appendix 4 – Representative Examples of Regional and Local Media Coverage	48

Mid-year Report

IUP's Expansion of CAE-C Program 2017-2018: An Interdisciplinary, Multifaceted Approach to Enhance Cybersecurity Education in Rural Pennsylvania

A. Executive Summary

In fall of 2017, Indiana University of Pennsylvania was awarded a grant from the National Security Agency as part of the Investment in Expansion of CAE-C Education Programs. In this project, IUP proposes to design and implement an innovative program to enhance Cybersecurity education in the surrounding region. The project proposes a set of activities and services designed with an interdisciplinary perspective to provide effective solutions to Cybersecurity challenges. In addition to services and activities to enhance general Cybersecurity knowledge and skills, a main focus of this funded project is to implement a novel program to enhance communications skills (soft skills) of Cybersecurity students and those aspiring to enter this promising field. Our ultimate objective is to propose an innovative and successful model that can easily be replicated at other schools and/or environments.

Work on the design and implementation of the proposed services has started once the notification of grant award was communicated to IUP. All project four Co-PIs along with the six graduate assistants and student workers hold meetings every other week to discuss project status and accomplishments and plan for future activities. Each of these meetings lasts between one and half hour to two hours, see project documents for complete details. In this midyear report, we briefly summarize the work and achievements we accomplished in this project so far. After the brief description below, each of the following sections will be dedicated to discuss and present the details of each of the proposed services.

Complete information about the project including resources and activities in each of the proposed service can be found on the IUP Expansion of CAE-C Program Web Portal at:

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

Brief Description

The IUP's expansion of CAE-C Programs implements six different services that work collaboratively to achieve the main objective of the program, the enhancement of Cybersecurity education in the entire region and nationwide. Figure 1 visually depicts these six services and the main expected outcome of their successful implementation. One of the unique aspects of our project is its innovative approach to address challenges facing Cybersecurity education. The proposed approaches are innovative for several reasons:

1. The approach begins with a research component that will guide key steps of the project and add to the body of knowledge in cybersecurity education.

2. It includes collaboration between IUP's Institute for Cybersecurity and the university's writing center in order to deliver instruction to students from rural areas. This collaboration puts to work the established expertise of faculty from Computer Science, Political Science, English, and Education.
3. It includes the use of multiple approaches to solve persistent challenges in cybersecurity education. The approaches include interactive learning experience, flexible delivery format, and flexible structural design. These are reflected in Figure 1.
4. It is easily replicable for other institutions and rural areas. All materials will be made available to rural schools.

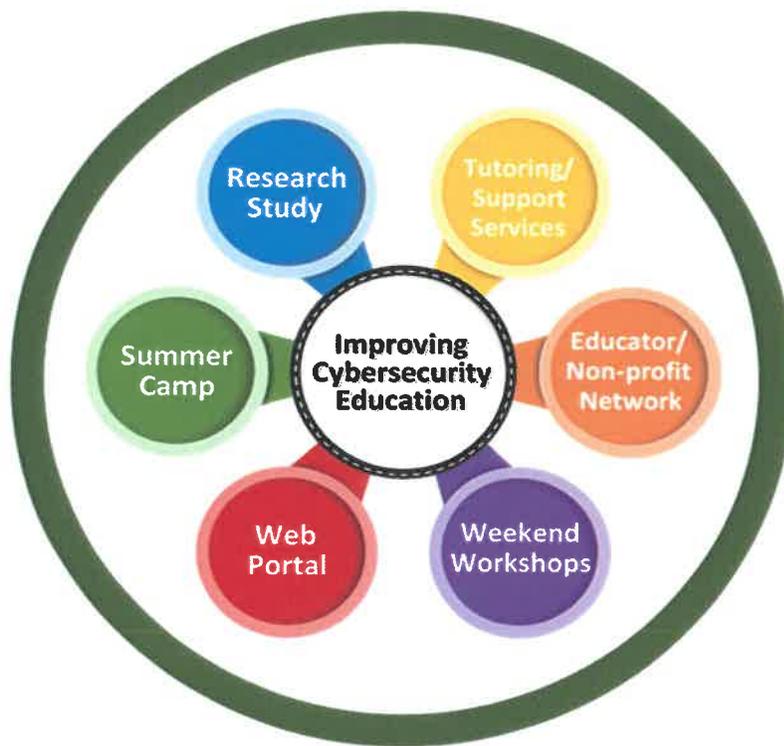


Figure 1: Proposed services to enhance cybersecurity education in rural Pennsylvania.

Section 2.11 of the submitted grant proposal (Deliverables) describes a set of items that represents the outcomes of this project. We believe that we have achieved considerable success in designing and implementing each of the proposed services/activities. The remainder of this mid-year report is organized into various sections each is dedicated to summarize work and achievements in each of the project components (depicted in Figure 1).

B. Tutoring/Support Service

By Dr. Ben Rafoth, co-PI

A key feature of the CNAP project is the writing component and is based on collaboration between IUP's Institute for Cybersecurity and IUP's Jones White Writing Center. The goal is to deliver writing skills instruction to cyber security students living in rural areas. The collaboration brings a unique interdisciplinary perspective to the design and implementation of the project's proposed solutions for enhancing cybersecurity education in rural western Pennsylvania. As a result, students who traditionally have had little access to cybersecurity education in secondary and post-secondary schools will now have access to an integrated curriculum and teaching methods for those writing and speaking skills that are essential for careers in cybersecurity.

The following list describes accomplishments to date for meeting the goals and objectives of the grant project with respect to the writing component.

Overview of Accomplishments to Date

The results of the research component of this project have been analyzed for conclusions and implications that apply to (1) input from career professionals about the challenges of using writing and speaking skills in their jobs, (2) current CS students' attitudes about the value of writing for their future careers, and (3) current CS students' self-assessments about their individual writing and speaking skills. Results from these areas of the research component and from extant published research provided the basis for designing a comprehensive program for delivering individualized instruction to cybersecurity students who must complete writing assignments as part of their computer science course curriculum at the university.

Specific Accomplishments to Date by Dr. Rafoth and his Graduate Assistant

- Designed and led two workshop sessions for groups of 40-50 students
 - On December 2, 2017 and again on February 17, 2018, workshop sessions led by Dr. Rafoth were part of a day-long event attended by students already enrolled in or interested in cybersecurity studies. The writing workshop, entitled "'Greetings' from The Void: Communicating While Under Cyber Attack," was designed as a simulation exercise and was based on the NSA's National Level Exercise 2012. During the workshop, participants were given a brief lesson about the critical role of clear, accurate, and rapid communication when an organization is under intense pressure from a threat actor. The bulk of the workshop consisted of the simulation—a disruption in service attack on their company—and the company's urgent need for clear and cogent written communication from the IT department to various parts of the organization. The purpose of the simulation was to create an experience of writing under pressure and then to provide feedback on the clarity, accuracy, and effectiveness of the participants' written communications. Follow-up evaluations by the participants were very positive.

- Developed a training program for writing tutors
 - During the past three months, Dr. Rafoth and his assistant have developed a program to train tutors to assist students who are enrolled in computer science courses and who are required to complete assignments that require advanced writing skills. This program was in addition to the training tutors already receive as part of their work in the university writing center and was tailored to the technical aspects of writing. In addition, tutors were trained to work online for those students who are unable to meet their tutor on campus. The online platform provides synchronous audio and video communication with screen sharing so that students can share their papers with their tutors.
- Hired and trained writing tutors in computer science and STEM field
 - Six tutors were hired specifically for their strong academic backgrounds, STEM-related majors, and previous experience with tutoring, teaching, or coaching. They met for two training sessions and have received ongoing feedback and supervision.
- Provided input to one computer science faculty member regarding the design of writing assignments
 - A key element for improving students' writing skills is ensuring that instructors' assignments convey a clear purpose and establish clear and specific expectations. This enables students and tutors to have productive meetings. Dr. Rafoth consulted with one computer science professor about his assignments and will continue to offer advice for additional faculty.
- Developed resource materials to support tutoring for cybersecurity students and assess its effectiveness
 - Materials to teach writing skills were developed for tutors to use in their sessions with students. Tutors were also trained to administer an assessment instrument required by one instructor. The instrument measured students' knowledge of organization, punctuation, and proofreading at the beginning and at the end of the tutoring sessions.
- Recruited student participants to meet with tutors
 - Visits to computer science classes by Dr. Rafoth or his graduate assistant informed students about the free, high-quality tutoring available to them for their writing assignments. Students were encouraged to take advantage of tutoring services offered in two locations, Stright Hall (where most computer science classes are offered) and the Jones White Writing Center.
- Created writing resources for cybersecurity students on the web portal.

- Resources are available at <https://www.iup.edu/compsci/events/cae-c-expansion/writing-and-communication-skills-tutoring/>. Additional resources will be posted here in the coming weeks.

C. Research Component

By Dr. Crystal Machado, Co-PI

Interdisciplinary Team: Drs. Farag, Fiddner, Rafoth and Machado, Krista Sarraf, Amber Stewart, Jennifer Baggett, Zhengqi Hu

Research Team: Machado, Krista Sarraf, Amber Stewart, Jennifer Baggett, Zhengqi Hu, doctoral students enrolled in ALS852 School Evaluation – fall 2017, and CURR983 Analysis of Qualitative and Mixed Method Research in Education.

Research Study Timeline for Fall 2017

Presented below are phases 1-3 of the research process that unfolded in fall 2017. During phase 1 and 2 Dr. Machado engaged the interdisciplinary team in instrument design, validation and critique of the IRB application.

During phase 3 Dr. Machado provided extensive training to the research team who would be involved in qualitative and quantitative data collection. Doctoral graduate assistants Sarraf and Baggett administered the survey to computer science students. Following this, Dr. Machado presented preliminary analysis of the data to the interdisciplinary team so that Dr. Rafoth and Ms. Sarraf could develop programming for computer science students.

Under the supervision of Dr. Machado, the research team collected, transcribed and coded interview data. Dr. Machado presented preliminary analysis of the qualitative data to members of the interdisciplinary team so that so that Dr. Rafoth and Ms. Sarraf could develop programming for computer science students.

Phase 1: Review of Literature

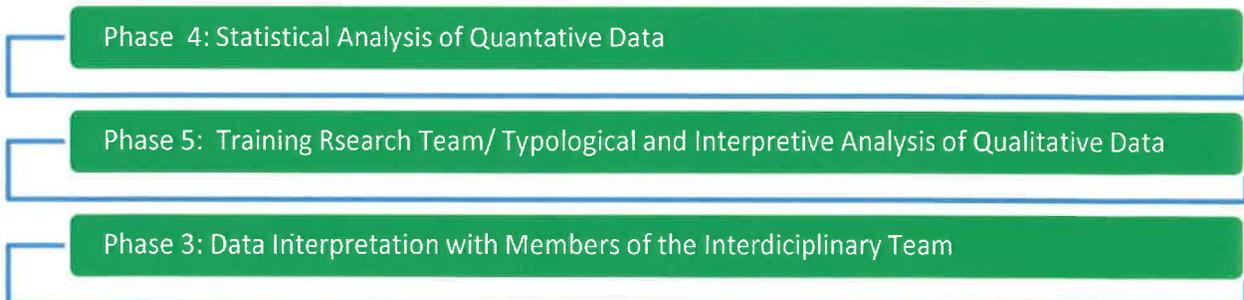
Phase 2: Study Design, Instrument Design, and IRB Application Approval

Phase 3: Training Research Team, Collection and Preliminary Analysis of Quantitative and Qualitative Data

Research Study Timeline for Spring 2018

Presented below are phases 4-6 of the research process that began in spring 2018. During phase 1 Dr. Machado used SPSS to analyze the quantitative data. She presented the results and engaged the interdisciplinary team (Farag, Fiddner, Rafoth, doctoral graduate assistants, and student workers) in interpretation of the data.

Dr. Machado is currently engaged in implementing phase 5 of the study. She provided her graduate assistant with training on how to code the qualitative items in the survey and interview data. She is currently engaged in providing her research team with training related to qualitative data analysis. She has begun to present findings with members of the research team, on an ongoing basis so that Dr. Farag, Dr. Rafoth and Ms. Sarraf can develop programming for computer science students. Following analysis of the qualitative data, Dr. Machado will merge the two streams of data and begin development manuscript preparation. This will occur during phases 7-9, in summer 2018.



Representative findings of the Research Study are given in Appendix 1 of this report. Additional details as well as up-to-date information about the Research Study and its findings are available on the dedicated Research Study section of the project portal at <https://www.iup.edu/compsci/events/cae-c-expansion/research-study/>.

D. Weekend Cybersecurity Workshops

By Dr. Waleed Farag, PI

As described in Section 2.7 of the grant proposal (Proposed weekend cybersecurity workshops), our team has designed and offered a number of weekend Cybersecurity skill enhancement workshops that offered very engaging sessions on various aspects of Cybersecurity. So far, we have offered two workshops and are planning to offer one-two more in the near future. The first workshop was held on December 2, 2017 while the second one was held on February 17, 2018, both at IUP main campus. Our team chose to offer these workshops on the weekends (Saturdays) to enable middle and high school students from surrounding school districts to attend these events and benefit from the content we offer. The project PI have contacted the superintendent and various principals of local high and middle schools and have distributed flyers and workshop information

at these surrounding local schools. The choice of Saturdays also provided college students with better chance of attending these workshops without worrying about schedule conflicts with their weekly classes. Each of the two offered workshops have been well attended in which about thirty participants attended each one of them. Participants include middle and high school students and teachers, college students, university faculty and staff, and members of the local community. Each workshop featured interactive, hands-on sessions facilitated by qualified security experts guest speakers and the grant Co-PIs. Information about the most recently offered workshop (February 17, 2018) is given below:

- **Workshop Date/time:** Saturday, February 17, 2018, 9:00 a.m.–2:30 p.m.
- **Registration:** *E-mail the following info: Applicant's Full Name, E-mail, Postal Address, Phone, and School to cae-c-expansion@iup.edu by February 12 to register.* Space is limited, and registration will be accepted based on first-come, first-served.
- **Workshop Location:** 112A Stright Hall (210 South 10th Street, Indiana, PA 15705).
- **Open to all interested students (middle school, high school, and college students) and teachers.**
- **Sponsored by the NSA and IUP.**
- **Free lunch** will be offered.
- **[Cybersecurity Workshop Flyer](#)**, see also Appendix 2
- **Workshop Schedule:**
 - 9:00 am: Welcome and Opening Remarks, Dr. Farag, IUP
 - 9:15–10:45: Cybersecurity 101: A Hands-On Session, Dr. Isaac Porche (Guest Speaker), Rand Corporation
 - 11:00–12:30: Communicating While Under Cyber Attack, Dr. Rafoth, IUP
 - 12:30–1:00: Free Lunch
 - 1:00–2:30: Global Cyber-Crises Simulation: WWII?, Dr. Fiddner, IUP

As will be discussed in details in the next section, a main component of this project to foster a Cybersecurity community in the entire western Pennsylvania region. One representative example of work on building such a community is our outreach efforts to collaborate with the Westmoreland County Community College. Three Co-PIs have coordinated a visit to the Westmoreland County Community College (WCCC) on January 18, 2018 and held a productive meeting with several Deans, faculty members and school administrators of WCCC. One outcome of this meeting is a developed action plan that outlines specific collaboration activities. Details of this plan will be discussed in the next section. Below is just one item of this activities related to the holding of a Cybersecurity workshop.

- IUP's expansion of CAE-C project team will hold a Cybersecurity Skill Improvement Workshop at WCCC on Sat, March 24, 2018. IUP team will arrange for the speakers and the contents to be delivered while WCCC team will host the workshop and take care of space, computing facilities, participant recruitment and other logistics. Waleed Farag, Grant PI, will coordinate this activity.

Appendix 2 lists representative examples of workshop flyers and publicity efforts. Complete details as well as up-to-date information about the Weekend Cybersecurity Workshops are available on the dedicated Workshops section of the project portal at <https://www.iup.edu/compsci/events/cae-c-expansion/workshops/>. This info include multimedia content (photo gallery, carousels, and video library), flyers, session's content, presenters' information, registration instructions, locations, dates, etc.

E. Building a Cybersecurity Community (educator/non-profit network)

By Dr. Mac Fiddner, Co-PI

Significant efforts to establish a Cybersecurity Community in the surrounding regions adjacent to the Indiana County in western Pennsylvania have been undertaken by the Grant Co-PI, Dr. Fiddner. **In fact, of Indiana and the four contiguous counties, we have “networked” with 17 out of 56 school districts in those counties through our outreach efforts and related activities such as previous GenCyber summer camps for teachers. We have also “networked” with 4 out of 194 school districts in counties not contiguous to Indiana County in western Pennsylvania (Allegheny, Clarion, Fayette, and Somerset).** Brief summaries of activities and accomplishments in this component of the project are given below. Appendix 3 also lists representative email correspondences to establish this proposed community and publicize various services offered by this project.

Former GenCyber Summer Camp Teachers

Invited all former GenCyber Summer Camp teachers to both the Dec. 2, 2017, and Feb. 17, 2018, Improving Cybersecurity Skills Workshop and asked them to publicize them to their colleagues.

Community Colleges

Even though there are 5 community colleges in Western PA, because of the short amount of time of the CNAP initiative and distance from the IUP campus, the cybersecurity community team has decided to limit invitation to the CNAP initiative to the two closest ones: Pennsylvania Highland CC and Westmoreland County CC.

Pennsylvania Highlands CC

Participation was already underway and is continuing with Pennsylvania Highlands CC through a member of the faculty there, Dr. Kevin Slonka. Dr. Slonka attended both Improving Cybersecurity Skills Workshops (Dec. 2, 2017 and Feb. 17, 2018) and intends to administer the student survey to his students this term.

Westmoreland County CC

Dr.s Fiddner, Farag, and Rafoth met with administrators and faculty at Westmoreland County Community College (WCCC) on January 18, 2018. The meeting was productive. Several faculty members and administrators at WCCC showed interest in collaborating with IUP CNAP team in promoting cybersecurity skills including written and communication skills among students at both institutions and surrounding school districts. We tentatively agreed on the following:

- Michael Caglia will be the POC at WCCC.
- IUP CNAP team will hold a Cybersecurity Skill Improvement Workshop at WCCC on Sat, March 24, 2018. IUP team will arrange for the speakers and the contents to be delivered while WCCC team will host the workshop and take care of space, computing facilities, participant recruitment and other logistics. **Waleed Farag will coordinate this activity.**
- A number of faculty at WCCC will request students in a number of computer/cybersecurity related courses to utilize the online Communication Skill Improvement Tutoring Service that IUP offers. Both Asynchronous and Synchronous service will be used. **Ben Rafoth will coordinate this activity.**
- A number of faculty at WCCC will collaborate with IUP team to collect data to help with our Research Study by recruiting student participants from WCCC. IUP will provide the approved IUP IRB protocol and WCCC Team will seek permission to administer these surveys at WCCC. **Crystal Machado will coordinate this activity.**
- IUP will support WCCC's efforts trying to secure CAE designation.

Information about the IUP CNAP Co-PIs is listed below:

Dr. Waleed Farag, Professor of Computer Science and Director of the IUP Institute for Cybersecurity, CNAP PI, Web Page: <http://www.people.iup.edu/farag>

Dr. Mac Fiddner, Associate Professor of Political Science, CNAP Co-PI, Web Page: <https://www.iup.edu/politicalscience/faculty/fiddner,-dighton/>

Dr. Crystal Machado, Associate Professor of Education and Master in Education Program Coordinator, CNAP Co-PI, Web Page: <https://www.iup.edu/pse/faculty/machado,-crystal/>

Dr. Ben Rafoth, Professor of English and Director of the IUP Writing Center, CNAP Co-PI, Web Page: <https://www.iup.edu/english/faculty/program-directors/ben-rafoth/>

Elementary/Secondary Schools

Because of the large number of school districts with no centralized way of contact in Western Pennsylvania (250) and short amount of time of the CNAP initiative, the cybersecurity community team has decided to limit recruiting of elementary and secondary schools to the counties contiguous to Indiana County: Jefferson, Westmoreland, Cambria, Armstrong with 56 combined school districts.

North/Central Cambria**(former student Matt Corran made initial contact)****Holy Name Elementary School:**

Mrs McMullen (principal): (814) 472-8817

Very warm reception from the staff, but Mrs. McMullen thought the students in Holy Name were too young to benefit from this initiative. She did however replicate copies of the Feb. 17, 2018 workshop flier and distribute it to her teachers.

Bishop Carroll High School:

(814) 472-7500 Mrs Ratchford

Copies of Feb. 17th workshop flier were given to the office manager whom said that she'd deliver it to Mrs Ratchford, the Principle. In addition to that, the IT guy for the school (Thomas (Ed) Graffte) was in the office; the program was explained, and they thanked me for stopping by. Mrs. Ratchford provided me Mr. Thomas (Ed) Graffte as a point of contact. I e-mailed him Feb. 17th Cybersecurity Skills Improvement Workshop flier, PowerPoint presentation, and executive summary.

Central Cambria High School:

(814) 472-8860

The Feb. 17th workshop flier was delivered to the office manager and explained in pretty thorough detail what the objectives were. She said that she'd pass it on to guidance, and make sure they receive it. I specifically mentioned Randy Wilson as well. Spoke to Randy and e-mailed him Cybersecurity Skills Improvement Workshop flier, PowerPoint presentation, and executive summary.

Johnstown/South Cambria Area**(GA Alex Ashcom provided contacts)**

- **Bishop McCort High School:** Mary Luna (814)-536-8991

- **Johnstown High School:** Michael Dadey (814)-533-5601
- **Richland High School:** Brandon Bailey 814-266-6081
- **Westmont Hilltop High School:** Thomas Mitchell (814)-255-8726
- **Ferndale High School:** Travis Robison (814)-288-5757
- **Conemaugh Valley HS** (No admin listed): (814)-535-5523
- **Windber High School:** Richard Lucas (814)-467-4567
- **Conemaugh Township Elementary School** Deborah Mishler Deborah.Mishler@ctasd.org. Continued dialogue with her at Feb. 17th Cybersecurity Skills Improvement Workshop.

IUP IT Services

Even though Paul Griggs has been fully integrated into the improving and expanding cybersecurity education in rural areas effort, Waleed Farag and Mac Fiddner met with Dan Yuhas and Paul, IUP IT Services, to inform them more fully of the scope of the NSA-sponsored initiative and to solicit IT's support for the effort. Mac and Waleed emphasized that even though technical skills are not being neglected, the main thrust of the initiative is to improve students' soft/communicative skills, e.g., critical thinking, writing, and oral presentation.

As a result of the meeting, Dan and Paul agreed to:

1. Continue to provide expertise and expert advice as speakers, instructors, and participants in cybersecurity education efforts for this initiative;
2. Explore introducing members of the initiative to IT professionals, employers, and professional organizations for expertise, educational support, mentoring, shadowing, and possibly short-and long-term internships;
3. Consider providing short-term shadowing and mentoring opportunities for IUP cybersecurity students;
4. Explore long-term enduring funding sources for the identified practices that improve cybersecurity education after the NSA grant expires; and
5. Provide expertise and assistance in posting cybersecurity educational pedagogical devices and advice for practitioners once the site's web portal is created.

University of Pittsburgh Institute for Cyber Law, Policy, and Security

Renewed acquaintance with Michael Madison, Senior Scholar and Academic Director, on February 21, and met Beth Schwanke, Executive Director, University of Pittsburgh Institute for Cyber Law, Policy, and Security, <http://cyber.pitt.edu/home>, on February 22, 2018.

They are interested in finding ways IUP and Pitt Cyber might amplify each other's efforts, particularly IUP's rural and modular education efforts. In the near term, they would be more than

happy to share information about opportunities for students at our camps and workshops etc. via our social media, so please don't hesitate to send any links on once you have them.

Pitt's high school cyber camp, which uses the Air Force Association's curriculum, will be held July 23-27. Instructors from IUP if interested would be welcomed. The Institute can offer a stipend of \$1,000 for anyone who is able to join us for a full week. They will send information in the next few weeks that could be circulated to anyone who might be interested in teaching.

Additional details and up-to-date information about building the proposed Cybersecurity Community are available on the dedicated Cybersecurity Community section of the project portal at <https://www.iup.edu/compsci/events/cae-c-expansion/cybersecurity-community/>.

F. Web Portal

By Dr. Waleed Farag, PI

As indicated in the grant proposal and mentioned a number of times before, we have developed a comprehensive Web Portal for this project that facilitate access to various project services and resources. Each of the project components has its own dedicated section on the Web Portal. The Portal also features various multimedia content (carousels, photo gallery, and video library) that document various project activates such as the offered Weekend Workshops as well as project documents and in the news section. The project Web Portal can be access using the following URL:

www.iup.edu/caecexpansion

G. Summer Camp

By Dr. Waleed Farag, PI

The project team has just started the planning for the proposed summer camp that will be modeled after our successful offering of several GenCyber summer camps for middle and high school students and teachers. Additional information about this camp will be posted on its section on the project Web Portal at the following URL: <https://www.iup.edu/compsci/events/cae-c-expansion/summer-camp/>.

H. Project Documents

By Dr. Waleed Farag, PI

Complete documentation regarding the project bi-monthly meetings including meetings' agendas, minutes, whole packets (attachments) can be accessed on the project Web Portal via the following URL: <https://www.iup.edu/compsci/events/cae-c-expansion/project-documents/>

I. Project Media Coverage

By Dr. Waleed Farag, PI

The project activities have been recognized and covered by various local and regional media outlets. Representative examples of these media coverage can be found in Appendix 4. We are also in the process of designing in-the-news section on the project Web Portal (www.iup.edu/caecexpansion) with updated information about media coverage.

J. Project Administration

By Dr. Waleed Farag, PI

The project PI, Dr. Farag is responsible for various administrative and financial tasks in this projects. So far, the administration of this project is going smoothly in spite of few difficulties faced at the initial phases of this project. Some representative administrative activities are listed below.

- Taking care of all financial and budget activities include payments to project Co-PIs and all students who work on the project.
- Hiring graduate and undergraduate student assistants to work in this project to facilitate the offering of various services and activities.
 - We are currently employing three graduate assistants who help the Co-PIs on various research oriented and tutoring tasks.
 - We are employing eight undergraduate students who work as peer-tutors and on various other activities such as administrative and web maintenance.
 - We work with IUP HR to ensure that all students working with us have the needed security clearances to enable them to interact with other students.
- Purchasing needed software.
- Recruiting qualified guest speakers and work with our financial office to prepare and execute contractual agreements with various guest speakers to facilitate honorarium payment (as approved by the grant).

Appendixes follow:

ENDURING SUPPORT

Tutoring

- 1 GA @ \$24,000 (\$14,000 out-of-state waiver + \$10,000 stipend).
- Tutors' wages @ \$5,400 (20 hours per week x \$9 x 30 weeks).
- Software @ \$300

Total: ~ \$30,000

Possible funding or personnel for:

Internships

Paid (preferable) or unpaid for summer or during academic terms

Shadowing

For any period of time from a couple of hours, a day, a couple of days, to longer

Mentoring

Advisor to guide student(s) in their professional/academic pursuits

Speakers

For cybersecurity-related events, e.g., Cybersecurity Day events, workshops, summer camps, classes, and any other that might publicize and inform public and prospective practitioners

Expert Instructors

Guest lecturers, workshops, summer camps

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on February 21, 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. 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. Amber and Hunter were given access to the project shared folder at "X:\Group Sharing\CNAP\1-Important-CNAP-Grant-Execution-Docs\".

Discussions:

1. Content and Organization of the Web Portal at www.iup.edu/caecexpansion.
2. Mid-year grant progress report to the funding agency, NSA.
3. Follow up to the Co-PI's meeting with WCCC Deans and faculty on January 18, 2018 and logistics of surveying students at WCCC.
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 for the main project Web Site and for the workshops page.
7. Discussion of the Research Study results, attachment #3

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:

??

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/caecexpansion.
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:

??

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

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on January 24, 2018

Action:

1. Approval of last meeting's minutes held on Dec. 13, 2017, see attachment #1,

Announcements:

1. Krista presented an informative talk at the past College Technology Day on Jan. 17, 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 submitted last week to payroll for payment processing.
4. Seth Altimus has just informed me that he will not be able to continue working as tutor because of commitment with Internship. Hunter Sargent will replace Seth and will also work with Braxton in related tasks.

Discussions:

1. Content and Organization of the Web Portal at www.iup.edu/caecexpansion.
2. Outcomes of the Co-PI's meeting with WCCC Deans and faculty on January 18, 2018, see attachment #2 for details and action plan.
3. Administering the surveys at other schools: WCCC, Penn Highland (Kevin Slonka), etc.
4. Deciding on the date of the next workshop (Feb 10 or Feb 17) and start advertising and the registration process. Waiting to get confirmation from Isaac Porche and Paul Grieggs.
5. We will hold a similar workshop at WCCC on March 24. Waiting to get confirmation from Frank Hartle.
6. Tutoring in Stright Hall. Modifying the poster (attachment #3) to reflect the new hours.
7. Payment for tutors from the Writing Center, updates.
8. Summer camp and possible collaboration with UBMS.
9. 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:

??

Minutes for the CNAP Committee Meeting
December 13, 2017 at 11:00 AM in 123 HSS

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

1. The Minutes of last meeting were unanimously approved at 11:00 AM.
2. CM shared with all attendees the preliminary analysis of the qualitative survey data (collected via interviewing cybersecurity professional).
3. WF will send CM codes for Questions 8 & 9 of the quantitative survey.
4. CM will modify IRB to enable us to administer the surveys at institutions other than IUP.
5. Meeting dates for the Spring semester were agreed up as follow (Jan 24, Feb 7, Feb 21, March 7, March 28, April 11, April 25, & May 9). All meetings will be held in HSS 123.
6. BR reported that tutoring service utilization is improving and we will be working on having the culture change continue in the spring via asking other CompSci professors to integrate communication skills enhancement more in the curriculum.
7. WF will identify classes to administer the surveys again in late Spring.
8. BR and Krista will work on securing IRB for pre-post tutoring tests.

9. DF, BR and WF will meet with WCCC's Deans and faculty on January 18 at 3:00 PM to make them aware of the services we offer and to invite them to use our services and collaborate with us in this project.
10. WF will modify the writing memo to fit courses such as COSC 356 and COSC 454.
11. BR and Krista will visit Cybersecurity classes in the spring to publicize the tutoring service and make Cybersecurity students aware of all what we offer.
12. Meeting was adjourned at 12:30 PM

Submitted by: Waleed Farag

Subject: Re: Rural Cyber Security Education Project Follow-up

From: Waleed Farag <farag@iup.edu>

Date: 1/19/2018 3:11 PM

To: Dighton Fiddner <fiddner@auxmail.iup.edu>, Michael Caglia <cagliam@westmoreland.edu>, Andrew Barnette <barnettea@westmoreland.edu>, Michael Hricik <hricikm@westmoreland.edu>, Byron Kohut <kohutb@westmoreland.edu>, Cynthia Proctor <proctorcy@westmoreland.edu>, Judith Scheeren <scheerenj@westmoreland.edu>, Gary Uhrin <uhring@westmoreland.edu>, "brafoth@iup.edu" <brafoth@iup.edu>
CC: "crystal machado (crystal.machado@iup.edu)" <crystal.machado@iup.edu>, "Dr. Waleed Farag" <farag@iup.edu>

Thanks Mike and everyone at Westmoreland County Community College (WCCC) for taking the time to meet with us yesterday and for your willingness to collaborate with us in this unique project. I concur with Mac that I believe the meeting was productive. I would try to summarize below the outcomes of this meeting and the tentative action plan that we came up with. Best regards.

Several faculty members and administrators at WCCC showed interest in collaborating with IUP CNAP team in promoting cybersecurity skills including written and communication skills among students at both institutions and surrounding school districts. We tentatively agreed on the following The following:

- Michael Caglia will be the POC at WCCC.
- IUP CNAP team will hold a Cybersecurity Skill Improvement Workshop at WCCC on Sat, March 24, 2018. IUP team will arrange for the speakers and the contents to be delivered while WCCC team will host the workshop and take care of space, computing facilities, participant recruitment and other logistics. **Waleed Farag will coordinate this activity.**
- A number of faculty at WCCC will request students at a number of computer/cybersecurity related courses to utilize the online Communication Skill Improvement Tutoring Service that IUP offers. Both Asynchronous and Synchronous service will be used. **Ben Rafoth will coordinate this activity.**
- A number of faculty at WCCC will collaborate with IUP team to collect data to help with our Research Study by recruiting student participants from WCCC. IUP will provide the approved IUP IRB protocol and WCCC Team will take of getting permission to administer these surveys at WCCC. **Crystal Machado will coordinate this activity.**
- IUP will support WCCC's efforts trying to secure CAE designation.

For additional info about CNAP Project, please visit its site at www.iup.edu/caecexpansion

Information about the IUP CNAP Co-PI is listed below:

Dr. Waleed Farag, Professor of Computer Science and Director of the IUP Institute for Cybersecurity, CNAP PI, Web Page: <http://www.people.iup.edu/farag>

Dr. Mac Fiddner, Associate Professor of Political Science, CNAP Co-PI, Web Page:

<https://www.iup.edu/english/faculty/program-directors/ben-rafoth/>

Dr. Crystal Machado, Associate Professor of Education and Master in Education Program

Coordinator, CNAP Co-PI, Web Page:<https://www.iup.edu/pse/faculty/machado,-crystal/>

Dr. Ben Rafoth, Professor of English and Director of the IUP Writing Center, CNAP Co-PI, Web

Page: <https://www.iup.edu/politicalscience/faculty/fiddner,-dighton/>

On 1/18/2018 10:26 PM, Dighton Fiddner wrote:

Michael,

Thank you for taking the initiative to send all of these e-mail addresses to all interested parties; the only one you might care to include is Crystal Machado, College of Education (crystal.machado@iup.edu). She is the other member of the grant team and the one conducting the research on students' skills and employers' perception of skills. I'm sure she will welcome the opportunity (if we can get all of the necessary IRB/administrative approvals) to administer her skills survey to your students.

I, likewise, think the meeting went very well, that there are areas for collaboration, and look forward to following up with you and any of the others as we move forward with the weekend workshop and refining our skills' improvement techniques.

Mac Fiddner

From: Michael Caglia [<mailto:cagliam@westmoreland.edu>]

Sent: Thursday, January 18, 2018 5:49 PM

To: Andrew Barnette <barnettea@westmoreland.edu>; Michael Caglia <cagliam@westmoreland.edu>; Michael Hricik <hricikm@westmoreland.edu>; Byron Kohut <kohutb@westmoreland.edu>; Cynthia Proctor <proctorcy@westmoreland.edu>; Judith Scheeren <scheerenj@westmoreland.edu>; Gary Uhrin <uhring@westmoreland.edu>; farag@iup.edu; Dighton Fiddner <fiddner@auxmail.iup.edu>; brafoth@iup.edu

Subject: Rural Cyber Security Education Project Follow-up

IUP Folks,

First of all, thank you for coming in today to present your Rural Cyber Security Education project. I think some great collaboration will come from this project.

The purpose of this email is to distribute email addresses and contact information between IUP and Westmoreland. If there are any additions to this list, people or information, please add them and reply all.

From Westmoreland:

Dr. Andrew Barnette, PhD
Dean of Humanities, Social Sciences and Public Service

barnettea@westmoreland.edu

Michael Caglia
Assistant Professor/School of Technology
cagliam@westmoreland.edu

Mike Hricik
Professor/English
hricikm@westmoreland.edu

Dr. Byron Kohut
Dean/School of technology, Advanced Technology Center
Kohutb@westmoreland.edu

Cynthia Proctor
Dean of School of Business, School of Math, Science, and Engineering
Proctorcy@westmoreland.edu

Judy Scheeren
Professor/School of Technology
Scheerenj@westmoreland.edu

Gary Uhrin
Assistant Professor/Criminal Justice
Uhring@westmoreland.edu

From IUP:

Dr. Waleed Farag
Professor/Department of computer Science
farag@iup.edu

Mac Fiddner
fiddner@auxmail.iup.edu

Ben Rrafoth
brafoth@iup.edu

Thanks,

Michael Caglia
Assistant Professor/School of Technology
Westmoreland County Community College
145 Pavilion Lane
Youngwood PA, 15697
cagliam@westmoreland.edu
724-925-4008

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!**

Where?

Stright Hall
Room 112 C

When?

Monday: 3:30-6pm
Tuesday: 5:30-7pm
Wednesday: 4:30-7pm
Thursday: 5:30-7pm
Friday: 1:30-3:30pm

Questions?

E-mail farag@iup.edu
for more information

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

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.

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on December 13, 2017

Action:

1. Approval of last meeting's minutes, see attachment #1, held on Nov. 29, 2017.

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.

Announcements:

1. Krista will present at the upcoming College Technology Day scheduled on Jan. 17, 2018.
2. Please continue to store all information and/or work on the grant on the shared X:\ drive.
3. Please remember that today at 1:10 PM is the NSA CAE forum (an online Webinar) titled "Open Source Intelligence in Cybersecurity", see the flyer attachment #2. You can join from any computer using the following link. <https://caecommunity.zoom.us/my/caeforum>.
4. I have received by now three out of four winter contracts for Co-PIs. I will be able to sign them after the winter session is over so that payment will be processed.

Discussions:

1. Content and Organization of the Web Portal at www.iup.edu/caecexpansion.
2. Co-PI's meeting with WCCC on January 18, 2018 at 3:00 PM.
3. Dec 2nd workshop evaluation and participants' feedback, see attachment #3.
4. Payment for tutors from the Writing Center, updates.
5. Planning for Spring activities:
 - Next workshop (same!!, when, etc.)

- Writing Tutoring? (f2f, online, how many)
- Summer camp and possible collaboration with UBMS.
- Pictures/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**”.
- Updates on working with Kevin Slonka to administer the surveys at the schools he is teaching at.
- **Important: Spring meetings time/location.**

Minutes for the CNAP Committee Meeting
November 29, 2017 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, and Braxton Dameron

1. DF made a motion to move the discussion of Dec. 2nd workshop planning to the beginning of the Agenda. WF seconded it and the notion was unanimously approved.
2. It was decided that the Maximum number of participants at the December 2, workshop would be 40, our 8 staff members not included.
3. Email Confirmation of attendance and photo release forms will be sent out to those who registered for the workshop.
4. Each group of 7 participants will have their own table at the workshop, and would perform the activities together.
5. A sign-in sheet, adult photo release form, and evaluation forms will need to be present for the participants.
6. Lunch will be self-serve: at least 3 pizza slices and a drink for every person attending.
7. Door prizes will be drawn in between activities.

8. Sarah will need early access to the building to set up videotaping equipment.
WF will make sure that she can be there by 8 AM.
9. Advertising for our next event should begin soon. It is likely this event will be in early to mid-February (the 10th or 17th).
10. The Minutes of last meeting were unanimously approved at 11:45 AM
11. WF will ensure that all doors to Stright Hall will be opened and accessible to workshop attendees on Dec. 2nd. Signs will be posted on all doors to guide participants to the location of the workshop.
12. BR will provide name tags for all participants.
13. DF will ensure that HR has received our event registration and will update staff info to include all of our names.
14. WF will be a timekeeper for the Communication skill session at the workshop.
15. Krysta and Jennifer will be presenting on Research, Technology, and the Writing Center for the December 2 workshop summary.
16. CM has asked WF to work on providing proper coding for the questions in the survey to be used in the data analyses.
17. Meeting was adjourned at 12:30 PM

Submitted by: Braxton Dameron and Waleed Farag



13 Dec 2017

Open Source Intelligence in Cybersecurity (1:10-1:50pm 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 13 Dec 2017

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: Open Source Intelligence in Cybersecurity

Audience: Students, Professors, Govt.

Presenter(s): Anastacia Webster, California State University, San Bernardino

Description:

Whether they are reading information on Facebook, searching old friends or colleagues on google, researching for a term paper online, or hunting for employees on platforms like LinkedIn, most individuals already engage in some form of OSINT collection and analysis in their daily lives. However, the real value added to the field of cybersecurity in teaching individuals how to use OSINT is that they are able to evaluate the vulnerability of an individual or company directly from the information they provide online. Individuals can often find

sensitive/confidential, private, and personal information through the process of enumeration, aggregation, and deduction that can help them protect individuals or exploit targets. In addition, by teaching individuals to use OSINT in cybersecurity, we can open the door to larger discussions of privacy and ethics regarding open source information. This workshop is going to go introduce OSINT in cybersecurity and open the discussion on privacy and ethics.

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

Session #1						
Frequencies	Question 1	Question 2	Question 3	Question 4	Question 5	Question 6
5	17	13	20	14		
4	4	7	1	7		
3		1			19	14
2					1	1
1					1	6

Session #2						
Frequencies	Question 1	Question 2	Question 3	Question 4	Question 5	Question 6
5	14	15	22	16		
4	7	6	1	4		
3	2	2		3	18	19
2					4	3
1					1	1

Session #3						
Frequencies	Question 1	Question 2	Question 3	Question 4	Question 5	Question 6
5	15	13	17	15		
4	5	4	3	6		
3	1	4	1		19	20
2					1	
1					1	1

1 = Fast 2 = Slow 3 = Just Right

1 = Above 2 = Below 3 = Just Right

- Question #1: How would you rate the usefulness of the content?
- Question #2: How would you rate the hands-on activities?
- Question #3: How would you rate the presenter's knowledge in the subject?
- Question #4: How would you rate the presenter's style of teaching?
- Question #5: How would you rate the pace of the presentation?
- Question #6: Was the session above or below your current skill level?
- Question #7: What did you like best or find most useful about the presentation?
- Question #8: Any other comments?

Session #1: What did you like best or find most useful about the presentations?

It was all interesting information

The practicality of what was learned

The thing that I find most useful is the amazing knowledge that I got

Real world experience with subject. Presented relevant information in a straight forward manner

I liked the activity we did, and it's good to know that you have to have a special browser for getting into the dark web.

I liked his style and the information presented

The factual information that I learned was the best part

How deep everything goes.

The hands on activity and information was very useful

I liked the examples that he gave for white hat hacking.

The detailed information about the dark web and how it works

Hands on exercise

The activity helped reinforce the main points

Excellent presentation. Clearly + logically explained. Highly informative

The activity was the best

I enjoyed the hands on activity

The video helped explain things because some of it was kind of confusing

Any other comments?

From the presentation and activity was just right

Really helped build interest in subject - Well done!

Great game

I enjoyed this presentation

The person taking photos was very distracting

Less text on ppt

Wonderful rapport with audience!

Session #2: What did you like best or find most useful about the presentations?

What it's like to write under pressure

Having to create a memo around a real world issue for companies was fun

Activity

Overview of letter with comments for improvement.

I liked how unique the experience was and that it put us in a real situation

I liked the activity the best, it was different, and it was harder.

Useful writing skills

I liked the videos and the writing part.

The experience of having to write a memo under the stress of an actual attack

The hands-on activity was very useful and would help me in the future

The exercise was perfect!

Very valuable experience. Well-organized + implemented, summaries were insightful! Thanks!

The presentation

I really enjoyed the exercise and the real fine response to our memos

Everythings are great

Learning how to communicate under pressure.

Any other comments?

Difficult to work with big group in current table setup. Divide groups to maximum 4 people

Paul clearly doesn't like presenting to large groups. But it wasn't a detriment to the session.

Session #3: What did you like best or find most useful about the presentations?

It helped with my analyzing skill.

I felt as though the hands on project was very interesting

The scenario went very depth and was enjoyable to go through

Answering questions under pressure

Analyzing a situation

Critical thinking + analysis of complex situation

The activity was intriguing

The story that was really interesting

The exercise was difficult but fun.

I found that the facts at the end more useful because if I ever have a report about the percentages of companies that get hacked I'll know.

Absolutely superb presentation! Important info! Informative! Thank you for the great experience!

It was very insightful in dealing with dilemmas, although this one was fictitious

I liked the story and critical thinking aspect of the scenario

Any other comments?

Shorter article

Maybe practice the use of a computer a little more :)

For those of us with little political science background, it was a little hard to follow at times

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on November 29, 2017

Action:

1. Approval of last meeting's minutes, see attachment #1 held on Nov. 15, 2017.

Announcements:

1. Updated workshop flyer, see attachment #2, thanks to Sarah.
2. Presenting project progress at the upcoming College Technology Day scheduled on Jan. 17, 2018. Any idea/volunteer.
3. Please store all information and/or work on the grant on the shared X:\ drive. Please remember that we need to document everything.
4. Please provide content for the Web Portal at www.iup.edu/caecexpansion.
5. The upcoming NSA CAE forum (an online Webinar) titled "Open Source Intelligence in Cybersecurity" at 1:10 PM on Wednesday, Dec 13, 2017. Please see the flyer in attachment #3. You can join from any computer using the following link. <https://caecommunity.zoom.us/my/caeforum>
6. All winter contracts for Co-PIs were submitted and currently in the approval chain.
7. Farag delivered more than 200 flyers and large posters to IASD schools (JH and SH) to publicize the Dec 2nd workshop among MS/HS students and teachers.
8. All previous participants in our GenCyber camps were invited by email.
9. Farag also posted on IUP mailing lists, news posts, Web Site event (attachment #4), Central Calendar and IUP daily.

Preparing for Dec 2, 2017 workshop

- Max number of participants??
- Grouping??
- Picture release form, see attachment #5. Any comment.
- Video recording and Pictures.
- Logistics: Schedule, Lunch, anything else?

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.

Next meeting will be held in 123 HSS on Dec. 13 starting at 11:00 AM.

Minutes for the CNAP Committee Meeting
November 15, 2017 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, and Braxton Dameron.

1. Online meeting with our guest speaker, Dr. Hartle, for the December 2 workshop.
The goals for the workshop were set, and accepted by the guest speaker.
2. Minutes of the last meeting held on Nov. 1, 2017 were unanimously approved.
3. Dr. Farag requested that every workshop presents a catchy title for publicity.
4. Dr. Rafoth introduced the option of bringing entire classes to the Writing Center then the idea was discussed. This could be available for professors with notice.
5. Progress on this project will need to be presented for the Grant. The next time this will happen is in February.
6. Methods of logging Workshop guests into IUP Computers was brought up. Some form of Guest Account to log in guests ahead of time is preferred.
7. Changes to the Cybersecurity flyer were discussed and later implemented. This updated flyer may need to be reapproved by Indiana Area School District.
8. Our terminology for the workshop is changing. “Soft skills” will be replaced with “written and communication skills.”

9. A workshop scenario was presented for the communication skills session: the guests would act as though they were a security council during a time of crisis

10.Meeting was adjourned at 12:40 PM.

Submitted by: Braxton Dameron and Waleed Farag

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

Saturday,
December 2nd 2017
9am-2:30pm

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 Identifying Cyber Crime,
Dr. Frank Hartle, RMU

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. Fidner, IUP

EMAIL GEN-CYBER@IUP.EDU BY NOV. 28 TO REGISTER!

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



13 Dec 2017

Open Source Intelligence in Cybersecurity (1:10-1:50pm 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 13 Dec 2017

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: Open Source Intelligence in Cybersecurity

Audience: Students, Professors, Govt.

Presenter(s): Anastacia Webster, California State University, San Bernardino

Description:

Whether they are reading information on Facebook, searching old friends or colleagues on google, researching for a term paper online, or hunting for employees on platforms like LinkedIn, most individuals already engage in some form of OSINT collection and analysis in their daily lives. However, the real value added to the field of cybersecurity in teaching individuals how to use OSINT is that they are able to evaluate the vulnerability of an individual or company directly from the information they provide online. Individuals can often find

sensitive/confidential, private, and personal information through the process of enumeration, aggregation, and deduction that can help them protect individuals or exploit targets. In addition, by teaching individuals to use OSINT in cybersecurity, we can open the door to larger discussions of privacy and ethics regarding open source information. This workshop is going to go introduce OSINT in cybersecurity and open the discussion on privacy and ethics.

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



SATURDAY, DECEMBER 02, 2017

 [Open Calendar](#)

CYBERSECURITY WEEKEND WORKSHOP

9:00 AM– 2:30 PM

112A Stright Hall

Cyber Security Institute

Free Cybersecurity Skill Improvement Weekend Workshops sponsored by IUP and the NSA. This workshop is open to all interested middle school, high school, and college students and teachers.

Space is limited and registration will be accepted based on first come, first served. To register, email the following info to gen-cyber@iup.edu by November 28:

- Full name, E-mail, Postal address, Phone, and School

[+ Add to your calendar](#)

Institute for Cyber Security

Stright Hall, Room 319

210 South Tenth Street

Indiana, PA 15705

Phone: 724-357-2524

Fax: 724-357-2724

Office Hours

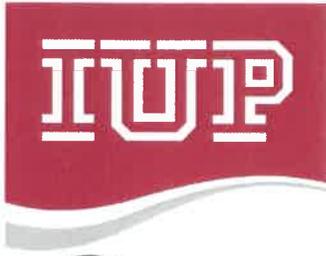
Monday through Friday

8:00 a.m. – 12:00 p.m.

1:00 p.m. – 4:30 p.m.

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1011 South Drive, Indiana, Pa. 15705 | 724-357-2100



PHOTO/VIDEOS RELEASE PERMISSION

Name of Participant: _____

Name of Event: Cybersecurity Skills Enhancement Workshop

Event Date/Location: Dec. 2, 2017, 112A Stright Hall (IUP main campus)

I hereby consent to and authorize the use and reproduction by Indiana University of Pennsylvania, or anyone authorized by IUP, of any and all photographs/videos that have been taken of my child, _____, in connection with the above-identified event for any purpose, without compensation to me.

IUP has permission to use their name, likeness and/or image in materials used to promote and market the university in perpetuity.

All negatives and positives, together with prints, slides, digital images, etc., are owned by Indiana University of Pennsylvania.

I have read and understand the above and attest that I am the parent or legal guardian of the children listed above and that I have the authority to authorize Indiana University of Pennsylvania to use their photograph(s), video(s) and name.

Print name of parent or legal guardian: _____

Signature: _____ **Date:** _____

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on November 15, 2017

Online Conference: 11:00 AM - 11:30 AM

- Meeting with Dr. Hartle, the Guest speaker in the upcoming Dec. 2nd 2017

Action:

1. Approval of the minutes of the last meeting held on Nov. 1, 2017.

Announcements:

1. Sarah's GA.
2. Attendance of the Annual NICE/CAE Community symposium last week (Nov. 7-9) in Dayton, OH.
 - I presented a talk on the work we are doing in the CNAP funded project.
2. Please see the updated tutoring flyer. We now offer tutoring in Stright Hall, at the Writing Center, and Online.
3. Please provide content for the Web Portal at www.iup.edu/caecexpansion.
4. We have today at 1:00 PM the NSA CAE forum (an online Webinar) to be held in 112A Stright Hall. Please join us if you can.
5. Winter contracts info for all Co-PIs was sent by Ute of the IUP RI. Please complete and submit the supplemental pay form at your earliest convenience.

Preparing for Dec 2, 2017 workshop

- A guest speaker was invited and accepted the invitation.
- Dr. Fiddner drafted the schedule, see the attachment. We need to finalize it.
- I am working with IASD to publicize the event among MS/HS students and teachers.
- All previous participants in our GenCyber camps will be invited.
- The last version of the flyer is attached (any comments). Please help to spread the word.

Reporting to NSA on Project Progress: Important

- We need to make sure that all project's activities are well-documented and that we have detailed write up of what we are doing including any results we obtain. Please send me this content to be posted on the Web Portal.

Project Components Status Reports:

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

Next meeting will be held in 123 HSS on Nov. 29 starting at 11:00 AM.

Minutes for the CNAP Committee Meeting

November 1, 2017 at 12:30 PM in 123 HSS

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

1. Minutes of the last meeting held on Oct. 11, 2017 were unanimously approved.
2. Discussed situation with GA in the Spring compared to an hourly position. Possible contacts given to find a GA in Media Production.
3. Next Cybersecurity meeting announced, will be held on November 15.
4. New forms of communication suggested, possibly Twitter and other Social Media to publicize for the upcoming Dec. 2 workshop.
5. Dr. Farag indicated that the cybersecurity website is ready for new content, and looking for information to post.
6. December Workshop was discussed. Two 1 ½ hour sessions before lunch and one 2-hour session after lunch proposed.
7. Dr. Farag suggested recruiting a speaker that can connect to the workshop's theme: soft skills. It was decided that a speaker targeting middle to high-school students is preferred. Potential speakers suggested by Drs. Rafoth and Farag were proposed and discussed.
8. It was suggested that publicity in the form of IUP Daily postings, Central Calendar updates, and News Posts would be helpful for upcoming events.
9. Dr. Machado presents data from student survey. Findings so far indicate students require more Computer Science related courses and opportunities in high-school.
10. Ways to improve utilization of the offered tutoring service were discussed including the possible incentives for students that attend these session.
11. Dr. Rafoth will send Dr. Farag a suggested writing assignment template to be edited based on course content then assigned to CS students. The assignment will require students to use the tutoring service or offer them extra credits for using it.
12. It was suggested that the data presented by Dr. Machado be presented on tutoring flyers.

13. Further discussion of data leads to Question 5 of the survey. It was suggested that grammar tools in combination with tutoring leads to success.
14. Dr. Fidnner will fund the lunch during the Dec. 2 workshop and will submit the event registration with IUP HR.
15. Alex and Krista will work on designing an attractive flyer for MS/HS students to publicize the Dec. 2 workshop.
16. WF will contact IUP accountant to find a way to reimburse BR for the cost of WebEx and Jotform subscriptions.
17. Meeting was adjourned at 2:30 PM

Submitted by: Braxton Dameron and Waleed Farag

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on November 1, 2017

Action:

1. Approval of the minutes of the last meeting held Oct 11, 2017.

Announcements:

1. Status of GAs and Student workers.
2. Cybersecurity Club meeting are ongoing. The Club met last Wednesday at 5 PM in the Jim Maple Cybersecurity Lab (107A Stright Hall) and next meeting will be on Nov. 8.
3. Cybersecurity Day at IUP was held last week on Oct 26.
4. Due to the change in tutors, we need to modify the tutoring hours. Krista and Seth will be working on that. We might also need to train a new student to replace Jacob.
5. The Web Portal was launched at www.iup.edu/compsci/events/cae-c-expansion. Please check its contents, suggest modifications/updates, and send me any additional info you want to be posted there.

Preparing for Dec 2, 2017 workshop

1. Program/speakers.
2. Target audience & recruitment.

Reporting to NSA on Project Progress: Important

- I need a paragraph briefly describing the progress in each component of the project.

Project Components Status Reports:

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

Next meeting will be held in 123 HSS on Nov. 15 starting at 11:00 AM.

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?

Monday: 3:30-6pm

Tuesday: 5:30-7pm

Wednesday: 4:30-7pm

Thursday: 5:30-7pm

Friday: 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.



Location: Stright Hall- Room 112A

15 Nov 2017

Public Sector Critical Infrastructure (1:10-1:50pm 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 15 Nov 2017

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: Public Sector Critical Infrastructure

Audience: Students, Professors, Govt.

Presenter(s): Michael Hamilton (University of Washington)

Description:

Mr. Hamilton will discuss the criticality of the infrastructure that is operated at the local scale by government from a variety of perspectives. After enumerating the technology-enabled services operated by local government, public utilities, maritime ports and other government entities, he will discuss unique challenges in providing security for those technologies. Finally, Mr. Hamilton will present a policy-based control that would reduce government's threat surface by approximately 40%.

SCHEDULE OF EVENTS

Weekend Cybersecurity Workshop

Dec. 2, 2017

Room 112 A&B, Stright Hall

9 Am Welcome/Cybersecurity Presentation

Dr. Waleed Farag

10:15 - 10:30 BREAK

10:30 – 12:00 Incident Report entry/Writing Workshop (

Dr. Ben Rafoth, Mr. Paul Griggs, Ms. Krista Sarraf

12-- 12:30 LUNCH

12:30—2:30 International Cyber-incident simulation

Dr. Mac Fiddner, Mr. Alex Ashcom

Indiana University of Pennsylvania



Stright Hall,
210 South 10th Street,
Indiana, PA, 15705
December 2nd, 2017,
9 a.m. - 2:30 p.m.

[https://www.iup.edu/
caecexpansion](https://www.iup.edu/caecexpansion)

Cybersecurity Workshop at IUP!

- ◆ Learn about exciting computer science careers.
- ◆ Explore Computer Science as a college major.
- ◆ Practice reading and writing skills.
- ◆ Learn computer skills necessary for jobs.
- ◆ Meet professionals with teaching skills needed to excel in cybersecurity.
- ◆ Meet students from across Pennsylvania.
- ◆ Sponsored by NSA and IUP and open to all interested students and/or teachers.

Email gen-cyber@iup.edu by **Nov. 29**
to reserve your spot!



Learn *important skills*
for computer science
careers!

Meet *professionals*
in the field!

Workshops for both
soft and hard skills!

Hands-on learning
with *fun* activities!

Free Lunch!

Minutes for the CNAP Committee Meeting

October 11, 2017 at 12:30 PM in 123 HSS

Attended By: Drs. Waleed Farag, Dighton (Mac) Fiddner, Crystal Machado, Ben Rafoth, Krista Sarraf, Alex Ashcom, and Jacob Pimental

1. WF announced the status of Zhenqi Hu's GA and Lydia Taylor.
2. Discussed the tutors Dr. Rafoth had selected to cover for Jacob until his employment requirements were met.
3. WF announced that tutoring sessions are ongoing and presented the modified flyer made by Krista.
4. WF announced that the web portal was launched at www.iup.edu/compsci/events/cae-c-expansion.
5. WF announced the upcoming IUP Cybersecurity Day, which was held on Oct 26 at Stouffer Auditorium.
6. Dr. Rafoth suggested that we start the online tutoring with 6 hours per week.
7. Dr. Farag will investigate ways to buy some supplies (3 recorders at \$50 each) in addition to print cartridges.
8. Dr. Machado indicated that IRB for the research protocol was submitted and we are waiting for its approval.
9. To enhance tutoring service utilization, a suggestion was made to have tutors visit classes and announce the service to all students. Dr. Rafoth will communicate to tutors the announcement they should make during these visits.
10. Preparation for Dec 2 workshop was discussed. Initial program is three 2-hour sessions. First is cybersecurity presentation/workshop, second is a writing workshop, and third is a decision making simulation session.
11. Meeting was adjourned at 2:00 PM.

Submitted by: Jacob Pimental and Waleed Farag

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on October 11, 2017

Action:

1. Approval of the minutes of the last meeting held Sept 27.

Announcements:

1. Status of Zhengqi Hu's GA and Lydia Taylor.
2. Cybersecurity Club meeting are ongoing. The Club will meet today at 5 Pm in the Cybersecurity Lab (107A Stright Hall). Please see the flyer for this meeting and announce to interested students.
3. Ben has promptly selected tutors to cover for Jacob until his employment requirements were completed.
4. Cybersecurity knowledge and skills tutoring sessions are ongoing. Krista prepared a modified flyer that also include the option of going to the Writing Center. Please see the tutoring flyer and spread the word to interested students.
5. The Web Portal was launched at www.iup.edu/compsci/events/cae-c-expansion. Please check its contents, suggest modifications/updates, and send me any additional info you want to be posted there.
6. Please announce and spread the word reading the upcoming IUP Cybersecurity Day on Oct 26 at Stouffer Auditorium.

Project Components Status Reports:

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

New Business:

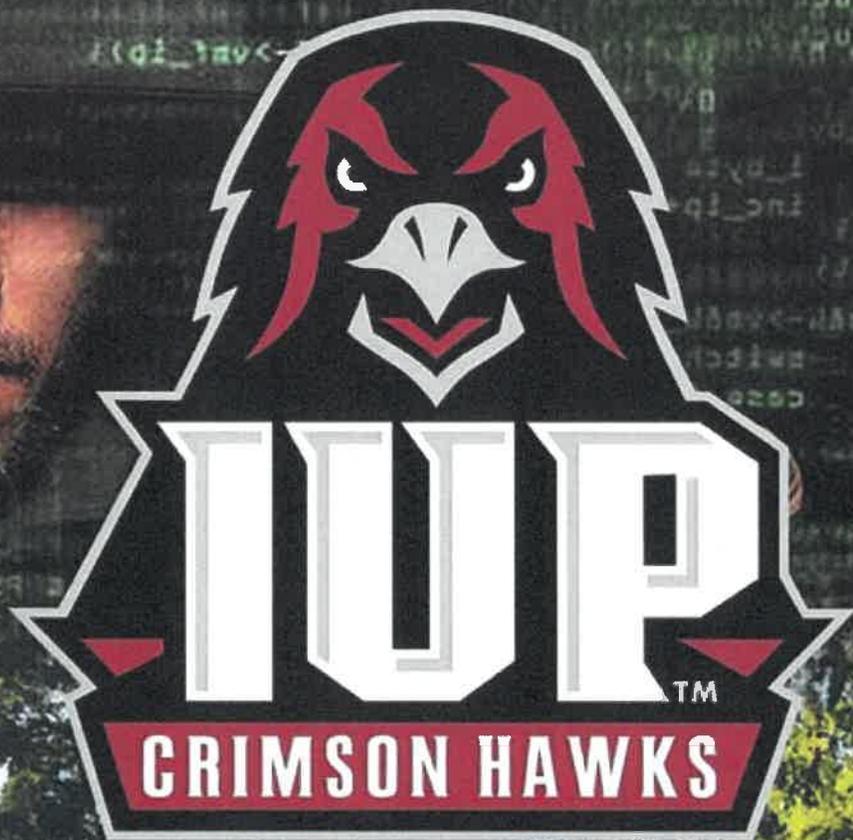
Next meeting will be held in 123 HSS on Oct 25 starting at 11:00 AM.

Minutes for the CNAP Committee Meeting September 27, 2017 at 11:00 AM in 306 HSS

Attended By: Drs. Waleed Farag, Dighton (Mac) Fiddner, Crystal Machado, Ben Rafoth, Krista Sarraf, Alex Ashcom, and Jacob Pimental

1. Two Graduate Assistants were hired, Krista Sarraf and Zhengqui Hu
2. Discussed the Cybersecurity Club election and presented the flyer.
3. Discussed having a pre-test for students who come into tutoring.
4. Discussed Cybersecurity Day, which we have three speakers lined up for
5. End of Oct. interviews will begin
6. Agreed on a tentative date, Dec 2, 2017, for the fall workshop.
7. A plan was discussed in order to document tutoring session attendance.
8. WebX and Jotform are some of the online tools that will be used to support offering the tutoring service.
9. WF will contact computer science faculty asking for assignments that contain writing components in Cybersecurity courses.
10. DF will send a PowerPoint summarizing various components of this project and outlining the activities to initiate the proposed Cybersecurity local community/consortium.
11. DF will attend the Three Rivers Information Security Symposium to be held on Oct 20 in Monroeville.

Submitted by: Jacob Pimental



Cyber Security Club

Topic: Social Engineering

When: Wednesday 10/11/17 @ 5PM

Where: Stright Hall 107a (Cyber Security Lab)

Who: Computer Science Majors & anyone who is into cyber security and hacking.

ATTENTION: STUDENTS TAKING CYBERSECURITY-RELATED COURSES WRITING TUTORING

Now available with an emphasis on cybersecurity

DO YOU NEED HELP:

- Improving your soft skills?
- Citing sources?
- Effectively summarizing a technical report?
- Writing a research paper on technical topics?
- Preparing PowerPoint presentations?
- Practicing speeches on technical topics?
- Organizing a project proposal?
- Proofreading?

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

Where?

Stright Hall
Room 112 C

When?

Monday & Wednesday
11:30am to 2:30pm
Tuesday & Thursday
3:30pm to 5:30pm

Questions?

E-mail farag@iup.edu
for more information

Need a different day or time? Get help at other 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.



COSC427 Cryptography

Fall 2017

Written Projects, Points 50+

Make a written project based on any of the following topics or choose any other recent development or research on cryptography and its application.

1. Cryptography and Digital Cash
2. Cryptography and Digital Signature
3. Application of Cryptography in Smart Card
4. Application of Cryptography in E-Commerce
5. NTRU Public-Key Cryptography
6. Elliptical Curve Cryptography
7. Elgamal Cryptography
8. Quantum Cryptography
9. Or, any topics of your choices

Please do not simply consult and copy from the textbook; you need to find more recent development on your chosen topics from the Internet.

Writing Style:

1. Font: New Times Roman
2. Space: Single Space
3. Margin: 1" all sides
4. Size: 12 point
5. The report must have a **coversheet** with
 - (a) the title of the topic,
 - (b) course name,
 - (c) semester,
 - (d) your full name, and
 - (e) an abstract.
6. The body of the project begins from page 1 and should be between 5 and 7 pages.
7. Number all pages except the coversheet.

COSC 316 Assignment

- 1: What types of threats do Cybersecurity professionals today encounter?
- 2: Who carries out cybercrime? Give one example for each group: Hactivist, Nation-State, Insider, Cybercriminal
- 3: Choose a type of business that is targeted by cybercrime and give an example.
- 4: History of Unix OS, including kernel, utilities, databases, system startup/configuration, and security

- 5: physical security: how does IUP keep its 15,000 students and 1,500 faculty secure in their person and possessions? give examples
- 6: pick any business or organization environment, and play the role of security planning specialist. What do you need to protect? From what threats are you protecting them? What are your priorities and budget? Conduct risk assessment and cost analysis, then set up your policy.
- 7: Research the following password cracking utilities, and test them on your own systems if you want to.
John the Ripper, Cain and Abel, Crack, DSNIFF, Hash Code Cracker, SAM insider, and another of your choosing
- 8: Explore various network account authorization systems:
NIS (network information service, formerly Yellow Pages, by Sun Microsystems)
MIT Kerberos (part of OSF distributed computer environment)
Net Info (now part of MacOS)
Radius (remote authentication dial-in user service)
LDAP (lightweight directory access protocol services)
PAM (pluggable authentication module)

- 9: Explore and explain a few case studies of famous Personnel Security breaches, such as:
Barings Bank (Nick Leeson)
Aldrich Ames (CIA double agent)
Jonathan Pollard (US Naval intelligence analyst)
Robert Hannon (burglary)
Los Alamos (nuclear plant security breach)

- 10: Read the following 2017 security reports:

<https://www.csoonline.com/article/3153707/security/top-5-cybersecurity-facts-figures-and-statistics-for-2017.html>

<https://www.av-test.org/en/news/news-single-view/the-it-security-status-at-a-glance-the-av-test-security-report-20162017/>

- Summarize the reports, give statistics, and evaluate how prepared you yourself are to fight against the latest threats.

- 11: Explain physical security for servers in detail.

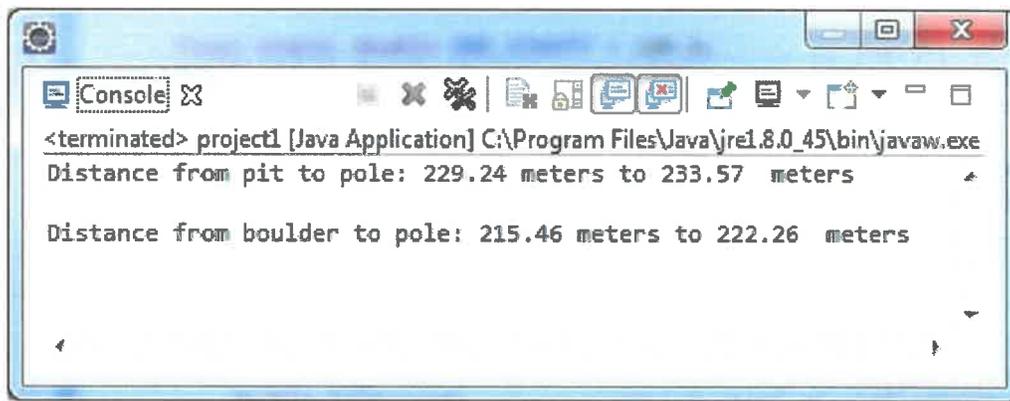
12: Explore and discuss different forms of backups.

COSC110 - Programming Project 1 (Due 9-7-2017 at 4:00 PM)

You will find a pdf code file posted on Moodle under this project link containing a Java program written in the style you will be expected to use throughout this course. Your first programming project is to enter, compile, link, and run a program. You **MUST** type this program using an IDE or a text editor (Eclipse is recommended), **NOT a word processor**. **DO NOT** copy and paste the code, you **MUST** type it. As you enter the program, make sure that you type **your name, student ID #, and your section number** in the commented line `// Typed By:` Also type the date in the following line. Otherwise, you should enter just what you see on the given pdf file.

Important: Some of the characters in the pdf code file might not be displayed clearly unless you zoom in to at least 150%. Make sure all your typing will match exactly the pdf file.

Do not worry that the program contains Java features that we have not yet covered; these features will be covered soon. If you type everything correctly, when you run the program, you will see a display similar to the following Console Window (I used Eclipse in this case):



```
<terminated> project1 [Java Application] C:\Program Files\Java\jre1.8.0_45\bin\javaw.exe
Distance from pit to pole: 229.24 meters to 233.57 meters

Distance from boulder to pole: 215.46 meters to 222.26 meters
```

After you have entered the slightly modified program and run it to get the answers, extract the .java file from the directory containing your project (consult the links of “How to use IDE to compile/run” under item 8 “Lab Handouts and Code” posted on Moodle on how to identify the directory containing your project and therefore be able to access the source code file with the extension .java). This .java file needs to be uploaded to Moodle, see “what do you need to submit?” section at the end of this project statement.

Second, after you run the program and the output Console window is displayed, do **one** of the following, depending on the last digit of your Banner ID number. Deliberately make one of the following **TEN** mistakes in your program and then try to compile again - choose the mistake whose number matches the **last digit** of your Banner ID number. You should get one or more error or warning messages. **Type the last digit of your Banner ID number, and the error/warning message(s) you got in the LAST line(s) of your code as comments (Just start each of these additional lines with `//` - double forward slashes indicate the line is a comment; thus, the compile will ignore it)**

0. Omit the semicolon from `lowSecond = BOULDER_POLE - 2.0;`
1. In the declaration of, `double highSecond;`
change the 'S' to lowercase, i.e., 's'.
2. In the line `public static void main` change the right parenthesis to]
3. Replace the comma ',' with '+' in
`System.out.printf("Distance from pit to pole: %.2f" , lowFirstDistance);`
4. Omit the // on the line `// Display results`
5. Change the declaration, `final static double ONE_EIGHTY = 180.0;`
to `final static double ONE_EIGHTY;`
6. Misspell `getDistances` as `getDistance` in the statement
`returnValues = getDistances (highFirst, highSecond);`
7. Misspell `double` in `double atPitAngle;` as `doble`.
8. Change // to /* in `// Display results`
9. Replace the `return array;` statement with `return "done";`

Do NOT save your program with the error in it. Do NOT print out your program with the error in it. **Be sure to look at the entire message window to find all error/warning messages.**

What Do You Need to Submit?

You need to upload ONE file into Moodle:

- The electronic version of your source code after you successfully compiled and ran it.
This is one single file which has the extension .java. You need to identify the project directory to extract that file from it. Please see above for details. Do NOT forget to type in the last lines of your source code file (.java) the error/warning message(s) you induced.

Very Important Note: Do NOT upload any other files created by the IDE; just the file with the extension “.java” and that is it.

COSC 316 - Project 1

(Due on 9-19-2016 at 11:15 AM)

All submissions must be computer-generated files. Make sure you upload your Power Point presentation on Moodle before the stated deadline

The class will be divided into three groups based on last names alphabetical order. These groups are listed below. Students in each one of these groups will be assigned one of the three topics described at the end of this assignment statement. For example. Students in group #1 are assigned the first topic, and those in group #2 are assigned the second topic, etc.

Sec 1 Groups:

- **Group #1 members: Baumgartner, Michael L., Gatone, Nigel, Karkoska, Cody S., Leitner, Devin J., Mazenko, Benjamin M., Morris, Brandon M., Niel, Brett M., Reed, Tyler A., Schmidt, Deric C., & Yard, Jesse F.**
- **Group #2 members: Brodginiski, Andrew R., Heffner, Zachary N., Keady, Chase D., Maisch, David R., McMullen, Paul W., Myers, Richard E., O'Neal, Steven J., Rogish, Jeri M., & Shoup, Travis B.**
- **Group #3 members: Buckery, Dervin, Hunter, Jared D., Krachanko, Aleksandr M., Martin, Joshua A., Morgan, Matthew J., Nagle, Dashed C., Patsilevas, Kevin M., Saxman, Stephen N., & Tartaglia, Anthony V.**

Sec 2 Groups:

- **Group #1 members: Ajibade, Lekan S., Altimus, Seth T., Cornwell, John A., George, Rebecca K., Golden, Jonathan L., Hess, Russell D., Luther, Kristen M., Miller, Shane A., O'Saben, Stephen M., & Thach, Chon.**

- Group #2 members: Al Homoud, Mahmood H., Brandis, Logan D., Fetterman, Cody T., Georgopoulos, Nectarios, Hanna, Slater D., Katinsky, Brandon T., McKillop, Alexander D., Murphy, Cailin A., & Shakespeare, Lloyd.
- Group #3 members: Allport, Seth C., Colagrande, Casey P., Gaston, Michael T., Gibson, Kenneth S., Harris, Jaron T., Klein, Joshua D., Mickey, Noah D., Mutair, Ziyad F., & Stearsman, Joshua J.

For an assigned security topic, a student will use the Web to find essential information on the assigned topic then will prepare a **professional-quality** power-point presentation that summarizes her/his findings. The files for all presentations must be uploaded into Moodle before the stated deadline.

All students are required to present their Power Points in class according to the following presentation schedule. Each presentation **MUST** not exceed five minutes.

- On Monday - 9/19/16: the first ten students (student #1-10) will present, please check the class list posted on Moodle.
- On Wednesday - 9/21/16: the next nine students (students #11-19) will present, please check the class list posted on Moodle.
- On Friday - 9/23/16: the last nine students (student #20-28) will present, please check the class list posted on Moodle.

The three given topics are described below:

1. Look up “the paper that started the study of computer security.” Prepare a summary of the key points. What in this paper specially addresses security in previously unexamined areas?
2. Find out who Kevin Mitnick was. What did he do? Who caught him? Write a short summary of his activities and why he is famous.

3. Explore the technique known as “iterative and incremental development.” Then research “agile development.” Make sure you also compare and contrast the two techniques in your presentation.

**Make sure you list all resources you used in your presentation including URLs
or other references**

(End of Project)

COSC 356 - Project 2

(Due on 2-22-2016 at 9:30 AM)

All submissions must be computer-generated files. Make sure you upload your PP presentation and Paper on Moodle before the stated deadline. You also have to submit a hardcopy of the paper in class.

This assignment is a research project in which your final outcome will be a research paper that will address one of the assigned topics. *The paper should be limited to only FOUR pages including the reference section. Use 12-point font and double spacing. You must use at least two academically refereed, published references.*

Your paper must be as professional as possible and it must have the standard sections of any research publication (Abstract, Introduction, Background, Topic Description, methodology (if any), Conclusion, and References).

The table below lists all students in the class along with the assigned topics. Topics are taken from various Case Projects listed in your textbook.

Student Name	Assigned Topic
Boyer, Christopher	Case Project 1-2 Page 41
Delman, Colton	Case Project 1-3 Page 41
Dhaliwal, Parwhaz	Case Project 2-1 Page 86
Herzog, Nicholas	Case Project 2-6 Page 87
Marquart, Christopher	Case Project 2-3 Page 86-87
Rubach, Blake	Case Project 2-4 Page 87
Tyger, Connor	Case Project 2-5 Page 87
Venezia, Joseph	Case Project 2-7 Page 87

Students are also be asked to present their papers in class. Thus, you will also need to prepare a **professional-quality** Power Point presentation that summarizes your findings. *The files for all papers and presentations must be uploaded into Moodle before the stated deadline.*

All students are required to present their Power Points in class on Monday 2/22/2016. Each presentation MUST not exceed seven minutes.

Make sure you list all resources you used in your paper and presentation including URLs or other references

(End of Project)

CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on September 27, 2017

Announcements:

1. Two Graduate Assistants were hired. Krista Sarraf and Zhengqi Hu
2. Cybersecurity Club election was held last week and its meetings started, please see the flyer for today's meeting and announce to interested students.
3. Beginning of this week, we have also started the Cybersecurity knowledge and skills tutoring sessions. Please see the tutoring flyer and spread the word to interested students.
4. All students and us should now have access to the X:\ drive for document sharing. Folder path is "X:\Group Sharing\IUPGenCyber\april-2017-proposal\1-Important-CNAP-Grant-Execution-Docs\".

Project Components Status Reports:

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

Old Business:

New Business:

Next meeting will be held in 123 HSS on Oct 11 starting at 12:30 PM.