NATIONAL CYBERWATCH CENTER

Transforming lives.
PRINCE GEORGE'S COMMUNITY COLLEGE

FOURTH ANNUAL

Community College Cyber Summit 2017

HOSTED BY:

PRINCE GEORGE'S COMMUNITY COLLEGE

NATIONAL HARBOR, MARYLAND
JUNE 28-30, 2017

SUMMIT AT A GLANCE

2017 COMMUNITY COLLEGE CYBER SUMMIT (3CS)

BUILDING ABBREVIATIONS AT PRINCE GEORGE'S COMMUNITY COLLEGE (PGCC):

- Largo Student Center (LSC)
- Center for Advanced Technology (CAT)
- Center for Health Sciences (CHS)

TUESDAY • JUNE 27 PRE-SUMMIT SFS MEETING	
8am - 4:00pm	Scholarships for Service (SFS) Program: This meeting, **by invitation only**, focuses on collaboration between 4-yr SFS schools and their 2-yr (current or potential) collaborators. Meeting will be held at the Westin Hotel, National Harbor.

WEDNESDAY • JUNE 28 PRINCE GEORGE'S COMMUNITY COLLEGE (PGCC)	
8:00am	Buses from National Harbor hotels to PGCC, Lot G (Pre-Summit Job Fair)
8am –5:00pm	Registration/Check-In at PGCC, LSC
9am - 11:30am	Pre-Summit Job Fair at PGCC, LSC
9am – 12:30pm	Colleges and Job Fair sponsors display tables, LSC
Noon	Buses from National Harbor hotels to PGCC, Lot G (3CS)
1:00 - 2:30pm	**Opening Plenary** • Welcomes • 1st Keynote: Brandon Dixon
2:40 – 5:40pm 2:40 – 3:40pm 3:50 – 4:50pm 5:00 – 6:00pm	**Wednesday Afternoon Concurrent Sessions 2:40 - 6:00pm** Workshops 1 (CAT and CHS) Presentations 1A (CAT and CHS) Presentations 1B (CAT and CHS) Presentations 1C (CAT and CHS)
6:00pm	Buses from PGCC, Lot G to National Harbor hotels
7:00pm	Sponsor reception at National Harbor (heavy hors d'oeuvres)

SUMMIT AT A GLANCE

2017 COMMUNITY COLLEGE CYBER SUMMIT (3CS)

BUILDING ABBREVIATIONS AT PRINCE GEORGE'S COMMUNITY COLLEGE (PGCC):

- Largo Student Center (LSC)
- Center for Advanced Technology (CAT)
- Center for Health Sciences (CHS)

THURSDAY • JUNE 29 PRINCE GEORGE'S COMMUNITY COLLEGE (PGCC)	
7:00am	Buses from National Harbor hotels to PGCC, Lot G
8:00 - 8:45am	Breakfast (PGCC, LSC)
8:00 - 10:00am Noon - 2:00pm	Registration/Check-In at PGCC (LSC)
8:30 - 5:00pm	Registration/Check-In at PGCC (CAT)
9am –5:00pm	3CS Sponsor/Producer Exhibits (CAT)
9:00 - Noon 9:00 - 10:00am 10:10 - 11:10am 11:20 - Noon	**Concurrent Sessions 2** **9:00 - Noon** Workshops 2 (CAT and CHS) Presentations 2A (CAT and CHS) Presentations 2B (CAT and CHS) Birds of a Feather Roundtables (LSC)/ Vendor Presentations (CAT)
12:30 – 2:30pm	**Lunch Plenary (LSC)** • Lunch • 2nd Keynote: Rick Geritz/Panel
2:40 – 5:40pm 2:40 – 3:40pm 3:50 – 4:50pm 5:00 – 6:00pm	**Concurrent Sessions 3** **2:40 - 6:00pm** Workshops 3 (CAT and CHS) Presentations 3A (CAT and CHS) Presentations 3B (CAT and CHS) Networking opportunity (LSC)
6:00pm	Buses from PGCC, Lot G to National Harbor hotels Dinner on your own

FRIDAY • JUNE 30 PRINCE GEORGE'S COMMUNITY COLLEGE (PGCC)	
7:00am	Buses from National Harbor hotels to PGCC, Lot G
7:30 - 8:00am	Breakfast at PGCC (LSC)
8:00 - 8:45am	3rd Keynote (LSC)
9:00 - Noon	Sponsor/Producer exhibits at PGCC (CAT)
9:00 - Noon 9:00 - 10:00am 10:10 - 11:10am 11:20 - Noon	**Concurrent Sessions 4** **9:00 - Noon** Workshops 4 (CAT and CHS) Presentations 4A (CAT and CHS) Presentations 4B (CAT and CHS) Student Panel's Perceptions of 3CS (LSC, Rennie Forum)
Noon 12:15pm	**Closing of Summit** Buses from PGCC, Lot G to National Harbor - Lunch on your own
FRIDAY AFTERNOON ACTIVITIES (OPTIONAL)	
11:30am	Buses from National Harbor hotels to PGCC, Lot G
12:30 – 3:30pm	CoreSite (Bus pick-up: 12:30pm/Bus Drop off: 3:30pm)
	National Cryptologic Museum & National Electronics Museum (Bus pick-up: 12:30pm/Bus Drop off: 3:30pm)
12:30 - 4:00pm	Spy Museum (Bus pick-up: 12:30pm/Bus Drop off: 4:00pm)
	Sightseeing Tour of Washington D.C. (Bus pick-up: 12:30pm/Bus Drop off: 4:00pm)
4:30pm	Buses from PGCC, Lot G to National Harbor hotels

TABLE OF CONTENTS

2 - 3	Summit at a Glance
5 - 9	Welcomes and Thanks
10	About the Community College Cyber Summit (3CS)
11 - 27	Daily Schedule • Wednesday Afternoon, June 28
28 - 36	Daily Schedule • Thursday Morning, June 29
37 - 45	Daily Schedule • Thursday Afternoon, June 29
46 - 55	Daily Schedule • Friday Morning, June 30
56	Post-Summit Tour Information
57 - 64	Maps (PGCC Campus)
65	Twitter Hashtag
66 - 67	Session Quick Locator

WELCOME

FROM DR. CHARLENE M. DUKES

On behalf of the Board of Trustees, Faculty, Staff and 40,000 Students, we welcome you to the 4th annual Community College Cyber Summit (3CS). This conference, like no other, is devoted to expanding the role of community colleges in cybersecurity education.

Prince George's Community College is especially proud to host this year's 3CS, as we celebrate the renewal of the National CyberWatch Center's NSF grant through 2021. The grant allows us to continue serving this nation's cybersecurity community with curriculum advances, student competitions, mentoring of colleges, engagement with businesses and government agencies, and outreach to the public.

National CyberWatch Center (CyberWatch), headquartered at Prince George's Community College since its inception in 2005, is the organizing force behind the creation of 3CS. We have partnered with multiple NSF ATE centers, Federal agencies, private businesses, and other community colleges to bring about this event.

The Community College Cyber Summit provides a concrete example of the growth of cybersecurity education at community colleges. Each year, more faculty and students attend, resulting ultimately in larger numbers of better-prepared individuals entering the workforce. And this year we have added a pre-conference job fair, allowing community college students to show off their skills to multiple employers.

The Community College Cyber Summit provides an opportunity for community colleges to share what we have learned, to advance our own knowledge in this field, to build relationships within the academic community and beyond, and to expand the playing field to additional colleges.

I wish you a most successful Summit!

Charlene M. Dukes

Dr. Charlene M. Dukes
President

Transforming lives.
PRINCE GEORGE'S
COMMUNITY COLLEGE

WELCOME

FROM NATIONAL CYBERWATCH CENTER

Welcome to the 4th Annual Community College Cyber Summit (3CS)!

Attention on cybersecurity has increased, as evidenced by the daily barrage of breaches to both public and private-sector organizations, the continued shortage of qualified technicians, and increased awareness of risks in the board and C-level suites.

A growing portion of this attention is focused on cybersecuriy education, and specifically the role community colleges play in solving some of the nation's information security challenges. 3CS provides a forum to build on and share effective practices; eliminate duplication of effort; and coordinate, standardize, and proselytize various educational and training initiatives showing tremendous promise as viable solutions to ever-important workforce challenges. 3CS also ensures that the community college "voice" is heard in the national dialogue, that the pathways between two-year and four-year programs are aligned, that curriculum standards now being shaped have strong community college input, and that the student pipeline is filled and workforce shortages are abated.

This year's Summit would not have been possible without the 3CS Steering Committee, the other National Science Foundation-funded Cybersecurity and IT centers/project, our academic member schools, faculty, students, industry and government partners, the senior leadership team at Prince George's Community College, and the dedicated National CyberWatch team members. We are also grateful to our National Science Foundation Program Officers, Dr. Corby Hovis and Dr. Victor Piotrowski.

Building, collaborating, and coordinating scalable and cost-effective solutions to some of our country's most vexing information security challenges remain at the core of what National CyberWatch is about. With an eye toward the future and our mission, you can expect the same high-quality work associated with National CyberWatch to impact our future years, as we lead collaborative efforts to advance Information Security education and strengthen the national cybersecurity workforce.

Here's to a great 2017 3CS!

Casey W. O'Brien
Executive Director & Principal Investigator
National CyberWatch Center

NATIONAL CYBERWATCH CENTER

WELCOME AND THANK YOU

FROM DR. BOB SPEAR

Thanks to all of you who have made this 4th Community College Cyber Summit a reality.

All of us who have worked on the Community College Cyber Summit thank National CyberWatch Center's home institution, Prince George's Community College, host for this year's summit. We thank the other NSF ATE centers, the summit producers:

- National Resource Center for Systems Security and Information Assurance (CSSIA) at Moraine Valley Community College, Illinois
- CyberWatch West (CWW) at Whatcom Community College, Washington
- Cyber Security Education Consortium (CSEC) at Oklahoma State Univ. Institute of Technology
- Advanced Cyberforensics Education Consortium (ACE) at Daytona State College, Florida
- Broadening Advanced Technological Education Connections (BATEC) at University of Massachusetts Boston

We thank our Federal agency partners: National Science Foundation (NSF), National Security Agency (NSA), Department of Homeland Security (DHS), and National Initiative for Cybersecurity Education (NICE) at the National Institute of Standards and Technology. And we thank our sponsors, including Jones and Bartlett Learning, Palo Alto Networks, EC-Council, ISSA, (ISC)2, Walden University, Southern New Hampshire University, Middle Georgia State University, CEROC, Infosec Learning, CompTIA, and No Starch Press..

We are delighted to have outstanding keynote speakers, including Brandon Dixon, Rick Geritz, and Rodney Petersen. In addition to plenaries, your colleagues are offering over eighty concurrent sessions during the three-day summit, including three-hour workshops and one-hour presentations, demos, and participatory exercises, all with specific takeaways designed to update your cybersecurity knowledge and better prepare your colleges in the cybersecurity arena.

A special thanks goes to our 3CS Committees: Steering, Program, Job Fair, and Tactical.

And most of all, thanks and welcome to all of you who are attending. You are the leaders, the pathfinders, the movers and shakers whose dedication, knowledge, and perseverance will help community colleges forge a new path in cybersecurity education, expanding it to the entire National Critical Infrastructure and thereby helping to keep our country safe.

Dr. Bob

Dr. Bob Spear, 3CS Chair

3CS Community College Cyber Summit

THANKS

TO THE ORGANIZATIONS WHO MAKE 3CS POSSIBLE

PRODUCERS

National Cyberwatch Center

CSSIA — National Support Center for Systems Security and Information Assurance

National Center of Excellence — BATEC — Computing and Information Technologies

CSEC

ACE — Advanced Cyberforensics Education

CWW — cyberwatch west

SPONSORS

CompTIA

EC-Council

Walden University — A higher degree. A higher purpose.

paloalto networks

Jones & Bartlett Learning — An Ascend Learning Company

ISSA — Information Systems Security Association

INFOSEC Learning

(ISC)²

Southern New Hampshire University

CERIAS — Cybersecurity Education, Research and Outreach Center

no starch press

Middle Georgia State University

FEDERAL PARTNERS

NICE — National Initiative for Cybersecurity Education

NSF

National Security Agency — United States of America

U.S. Department of Homeland Security

SPECIAL THANKS TO:

Transforming lives.

Prince George's Community College

THANKS

TO THE 3CS COMMITTEES AND STAFF

2017 3CS STEERING COMMITTEE

Bob Spear, Chair
Casey O'Brien
Sheryl Hale
John Sands
Corrinne Sande
Philip Craiger
Deborah Boisvert
Vera Zdravkovich
Lynn Dohm
Fran Melvin
Joe Tamburelli
Pat Tamburell
Alonia Sharps
Barbara J. Belón
Gus Hinojosa

2017 3CS PROGRAM COMMITTEE

Philip Craiger, Chair
Casey O'Brien
Corrinne Sande
Deborah Boisvert
Gary Kessler
Glenn Dardick
John Sands
Johnathan Yerby
Kevin Floyd
Nelbert St. Clair
Oscar Gonzalez
Bob Spear

2017 3CS JOB FAIR

Vera Zdravkovich, Chair
Barbara J. Belón
Lewis Lightner
Davina Pruitt-Mentle
Marian Merritt
Fran Melvin
Lynn Dohm
Bob Spear
Gus Hinojosa

2017 3CS TACTICAL SUPPORT COMMMITTEE

Lynn Dohm, Chair
Michael Burt
Fran Melvin
Zach Lawrence
Anita Shelton
Ginny Swyndroski
Lewis Lightner
Gus Hinojosa
Donte Robinson
Michael Gonzalez

ABOUT

THE COMMUNITY COLLEGE CYBER SUMMIT

The 4th Annual Community College Cyber Summit (3CS) is organized and produced by six Advanced Technological Education (ATE) centers funded by the National Science Foundation (NSF) and involved in cybersecurity. 3CS meets the perceived need for a national academic conference that focuses exclusively on cybersecurity education at the community college level. Faculty, administrators, students, and other stakeholders in community college cybersecurity education are invited and encouraged to attend. For the first time, 3CS includes a pre-summit job fair, so students have an additional motivation to attend.

THEME

STRENGTHENING OUR CYBER IQ

What makes 3CS different? Why should someone attend? Why is this not just another typical academic conference? Here is why: 3CS focuses on topics not typically addressed at other conferences, including:

- advanced technical workshops for experienced community college faculty.
- new techniques and strategies both within and outside the classroom that community college faculty and administrators can adopt to strengthen their existing cybersecurity education courses and programs.
- new research on community college cybersecurity education.
- vendor exhibits that emphasize cybersecurity education at the community college level.
- NEW IN 2017: A 3CS Pre-Summit Job Fair

EDUPLUS MOBILE APP

3CS will again use the EduPlus Mobile App, so well received by attendees at the 2016 summit. Please download the app to your mobile device, and search for "2017 Community College Cyber Summit". You will then use this app before and during the Summit for the following tasks:

- Sign-up for concurrent sessions (workshops and presentations). Because many sessions have limited seating capacity, you can insure that you will be able to participate in your selected sessions by registering to attend them.
- Find each session. The app includes session locations and descriptions, presenter bios, and campus maps.
- Evaluations: At the end of every plenary and concurrent session, find that session on the mobile app and submit a quick (4-question) evaluation. Also please complete the Overall 3CS Evaluation at the end of the conference and before you head for home.

SAVE THE DATE!

Next year's Community College Cyber Summit will take place in Portland, Oregon, August 2-4, 2018, hosted by Mt. Hood Community College.

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

SESSION TYPE

"Workshop" identifies a three-hour session in an attendee-participation format.
"Presentation" identifies a one-hour session in a variety of possible formats.

TRACKS

Track 1 – For faculty and colleges new to the cybersecurity field.
Track 2 – For faculty and colleges experienced in cybersecurity and for CAE-2Y aspirants.
Track 3 – For infusing cybersecurity throughout the nation's critical infrastructure and across the college curriculum.
Track 4 – For cybersecurity students.

WEDNESDAY • JUNE 28

PRINCE GEORGES COMMUNITY COLLEGE (PGCC)

TIME	DESCRIPTION
8:00am	Buses from National Harbor hotels to PGCC, Lot G (Pre-Summit Job Fair)
8:am - 5:00pm	Registration/Check-In at PGCC, Largo Student Center (LSC)
9:00 - 11:30am	**PRE-SUMMIT JOB FAIR** - Largo Student Center (LSC) Community Rooms A, B, and C
9am - 12:30pm	Colleges and Job Fair Sponsors display tables, LSC
Noon	Buses from National Harbor hotels to PGCC, Lot G (3CS)
	OPENING PLENARY Largo Student Center (LSC) - Community Rooms A, B, and C (1:00 - 2:30pm)
1:00 - 1:30pm	Introductions • Bob Spear, 3CS Chair • Charlene Dukes, President, Prince Georges Community College • Casey O'brien, Executive Director and PI, National CyberWatch Center
1:30 - 2:30pm	Keynote Address: Bandon Dixon, RiskIQ, ***Cybersecurity Stories: Voices from the Industry***

Brandon Dixon has spent his career in information security performing analysis, building tools, and refining processes. As Vice President of Product for RiskIQ, he is responsible for managing the direction of all RiskIQ offerings. Prior to RiskIQ, Brandon was the co-founder of PassiveTotal (acquired by RiskIQ) where he led development and product direction. Throughout the years, Brandon has developed several public tools, most notably PDF X-RAY, HyperTotal, and NinjaJobs. His research and development on various security topics have gained him accolades from many major security vendors and peers in the industry.

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

BUILDING ABBREVIATIONS AT PRINCE GEORGE'S COMMUNITY COLLEGE (PGCC):

- Largo Student Center (LSC)
- Center for Advanced Technology (CAT)
- Center for Health Sciences (CHS)

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1

TIME	DESCRIPTION	LOCATION
2:40 - 5:40pm	**WEDNESDAY AFTERNOON CONCURRENT WORKSHOPS 1**	
	$$$ - Learn All About the NSF Advanced Technological Education Grant Program **Session ID:** W1-1 • **Track/Format:** Track 1/Workshop **Presenters:** Casey O'Brien [Lead], Corby Hovis, Dennis Faber, Beth Hawthorne, and Allan Anderson **Description:** Need money to support your Cybersecurity program? Look no further! Participants will learn the ins and outs of the National Science Foundation (NSF) Advanced Technological Education (ATE) grant program. Panelists include those from the NSF ATE Program Office, Principal Investigators of the NSF ATE-funded Cybersecurity centers, faculty with newly awarded grants, and grant specialists from area Community Colleges.	CAT Room 105
	Using the NICE Challenge Project to Support the Cybersecurity Curriculum and/or CAE2Ys **Session ID:** W1-2 • **Track/Format:** Track 2/Workshop **Presenters:** Vincent Nestler [Lead], James Ashley III **Description:** The NICE Challenge Project uses Tasks and KSAs from the NCWF to develop realistic, competency-based scenarios (challenges) that can be used in the classroom. Challenges can be technically based, policy based, or a combination. This workshop starts with a presentation on what the NICE Challenge Project is and how it can be used in the classroom. It will then provide access to challenges, and participants will have an opportunity to work with the interface. The session will conclude with an exploration of how the challenges can best be used in various, specific settings. The NICE Challenge Project has no cost, and participants will have accounts that can be used for deployments for their students in their upcoming classes.	CAT Room 107

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
2:40 - 5:40pm	**WEDNESDAY AFTERNOON CONCURRENT WORKSHOPS 1 (cont'd)**	
	Responsible Software Development Workshop **Session ID:** W1-3 • **Track/Format:** Track 3/Workshop **Presenters:** Debbie Wolf **Description:** Participants of this workshop will walk away with adaptable instructional resources for teaching Responsible Software Development in both introductory cybersecurity and computer science courses at the collegiate level. Participants will receive a certificate acknowledging participation in this professional development activity. The NSF Catalyzing Computing and Cybersecurity in Community Colleges Project has developed and pilot tested the instructional materials at community colleges across the nation. Furthermore, the instructional materials carefully align to three prominent curricular standards: 1) NSA CAE Knowledge Units, 2) ACM Computer Science Curriculum Guidelines, and 3) College Board AP Computer Science Principles Big Ideas. Adopting this already vetted content will help colleges strengthen their degree programs and certificates, as well as those colleges in pursuit of the NSA CAE2Y designation. This workshop is open to all conference attendees, but seats are limited.	CAT Room 109
	Cybersecurity Principles Workshop **Session ID:** W1-4 • **Track/Format:** Track 3/Workshop **Presenters:** Yesem Peker **Description:** Participants of this workshop will take away adaptable instructional resources for teaching Cybersecurity Principles in both introductory cybersecurity and computer science courses at the collegiate level. Participants will receive a certificate acknowledging participation in this professional development activity. Furthermore, the instructional materials carefully align to three prominent curricular standards: 1) the NSA CAE Knowledge Units, 2) the ACM Computer Science Curriculum Guidelines, and 3) the College Board AP Computer Science Principles Big Ideas. The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has finished developing this new modularized content and is now seeking motivated faculty who are interested in being part of an exciting pilot during the Fall 2017 semester. Pilot testers will provide the C5 Project with valuable instructor feedback and student performance data from actual classroom experiences. **This workshop is by invitation only.**	CAT Room 212

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
2:40 - 5:40pm	**WEDNESDAY AFTERNOON CONCURRENT WORKSHOPS 1 (cont'd)**	
	New Cybersecurity and IoT Courses Freely Available to Students **Session ID:** W1-5 • **Track/Format:** Track 4/Workshop **Presenters:** John Sands [Lead], Kevin Vaccaro **Description:** This session will show students how to enroll for and take the new Cisco Cybersecurity Essentials and IoT Fundamentals courses available through the Cisco Networking Academy Program. The instructor will help students enroll for the courses and introduce them to the content, activities, and assessment courseware.	CHS Room 1202
	Learn2LockIt: CyberSecurity Awareness in the Community **Session ID:** W1-6 • **Track/Format:** Track 4/Workshop **Presenters:** Cassandra Hodges [Lead], Carolyn Bowman **Description:** As IT Security Students and Professionals, how often are we putting out fires because a loved one has unwittingly contracted and maybe even spread a virus? Our organization "Learn2LockIT" has designed several workshops to educate the general public for free on these topics which allows us to share our knowledge with others, while working smarter and more efficiently. "Learn2LockIT" provides BYOD workshops that educate each attendee on properly securing personal devices, social engineering tactics, social media behaviors, and other security topics.	CHS Room 1204
2:40 - 3:40pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1A**	
	Creating the Cyber-Security Talent Pipeline with Underserved Students **Session ID:** P1A-1 • **Track/Format:** Track 1/Audience Participation **Presenters:** Wende Ruffin-Lowery [Lead], Shawn Addison **Description:** Northern Virginia C.C. established a coordinated alliance to provide underserved and underrepresented high school students participating in cybersecurity and I.T. programs with a boot-camp to assist with industry credential attainment. Audience members will learn how to creatively build a talent pipeline by interfacing with the public schools' career and technical education programs & how to address labor market demands for industry credentials through creative marketing and mentorships. Techniques for addressing student knowledge gaps through pre-assessment testing and interactive learning technology will be shared.	CAT Room 225

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
2:40 - 3:40pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1A (cont'd)**	
	Making the decision to pursue a lucrative career in Cyber Security? Which direction do you go? **Session ID:** P1A-2 • **Track/Format:** Track 1/Panel **Presenters:** Levone Campbell **Description:** Participants will learn about the many career opportunities available working within the Information Security field. From Cyber Intelligence, Digital\Network forensics, and Daily Operations, participants will learn that cyber security offers several career paths to choose from. This session will provide a deep dive into each career opportunity, and also provide path to success for those participants that want to pursue them.	CAT Room 205
	Synchronous Classes in an Asynchronous World: How to Accommodate Today's Diverse Students **Session ID:** P1A-3 • **Track/Format:** Track 2/Panel **Presenters:** Kris Howery [Lead], Dennis Roebuck **Description:** This presentation describes the Delta College Cyber Security program from inception to present, including the lab environment with NDG and Remote Utilities. Several curriculum changes to required and elective courses over the last seven years are designed to better meet the needs of industry and students. Delta College is one of only a few Check Point Secure Academies in the U.S., so this discussion covers their Cyber Security products, along with the use of remote access to the classroom for students, either during class or during open lab times, so that students can access the class or lab from home or work. Finally, Delta's Cyber Security student club is discussed, including what works and what does not, how guest speakers from industry seem to be the biggest draw for club meetings, and how different levels of membership encourage mentoring.	CAT Room 207

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
2:40 - 3:40pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1A (cont'd)**	
	Cybersecurity Games: Building Tomorrow's Workforce **Session ID:** P1A-4 • **Track/Format:** Track 2/Panel **Presenters:** Dan Manson [Lead], Jessica Gulick, and Laurin Buchanan **Description:** Competitions encourage players to practice, hone cybersecurity skills, and build confidence in a controlled, real-world environment. They are available for all ages and levels, for students as young as elementary school and for those considered experts in the field. Achievements may be measured and evaluated against a large field of competitors. In this session we explore some of the key challenges and opportunities as described in the recently released whitepaper: Cybersecurity Games: Building Tomorrow's Workforce. Attendees will learn how they can contribute to guidelines, standards, and best practices for competition players, teams, schools, sponsors and organizers to empower the public and private sectors to address the cybersecurity skills gap through competitions.	CAT Room 215
	Cybersecurity Taught within a Hybrid Course and Degree Program **Session ID:** P1A-5 • **Track/Format:** Track 3/Panel **Presenters:** William Butler [Lead], Patricia Anderson, Helen Barker, and Rick Hansen **Description:** The panel will discuss implementing cybersecurity across a non-cyber curriculum. In particular, a hybrid course is discussed, combining astronautical engineering and cybersecurity. In this course, engineering and cybersecurity students work in diverse teams to develop a satellite planning project. The team is led by the cybersecurity student, and the security aspects are led by the engineering student. The course is taught by a faculty member and guest lecturers from the two departments. Intro to Cybersecurity is a required course for the Computer Science, and Management of Cyber and Information Technology (MCIT). MCIT is a hybrid degree that includes business and cybersecurity curriculum.	CAT Room 209

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
2:40 - 3:40pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1A (cont'd)**	
	The C5 Cybersecurity Curricular Materials - Process, Product, and Impact **Session ID:** P1A-6 • **Track/Format:** Track 3/Panel **Presenters:** Melissa Dark [Lead], Elizabeth Hawthorne **Description:** The NSF-funded C5 (Catalyzing Computing and Cybersecurity in Community Colleges) has two primary goals: 1) increase the number of CAE2Y schools, and 2) develop content modules and an integrated course to enhance computer science and cybersecurity courses. This panel focuses on the second goal. To date, C5 has produced nine cybersecurity content modules, which are also being integrated into a full course. Using student learning data to inform curriculum development, the materials are carefully aligned to three curricular standards (NSA CAE Knowledge Units, AP CSP Big Ideas, and ACM 2013 Curricular Guidelines). This panel will discuss the learning data and the content development model, the modules, the integrated course, and impact to date. Participants will learn how to access and use these curricular materials, so in addition to learning about the project, attendees will walk away with usable resources.	CAT Room 110
	Educational Pathway for Information Technology AAS Graduates **Session ID:** P1A-7 • **Track/Format:** Track 4/Paper **Presenters:** David Batts [Lead], Steve Baker **Description:** The global economy has increased the need for the US to produce more Information Technology (IT) graduates. However, many Associate in Applied Science (AAS) students and graduates think that a four-year education is beyond their grasp. Through this presentation you will become familiar with East Carolina University's degree completion program. Hear how community college AAS graduates can seamlessly transfer to ECU's Bachelor of Science of Industrial Technology (BSIT) degree with a concentration in Information and Computer Technology that can be finished either face- to-face or online.	CHS Room 1201

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
2:40 - 3:40pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1A (cont'd)**	
	Have you been the victim of a phishing scam? **Session ID:** P1A-8• **Track/Format:** Track 4/Audience Participation **Presenters:** Brian Seligson [Lead], Mihir Kansagra, and Andrea Doucette **Description:** Scammers pose a huge threat to today's world and specifically in technology sector which involves almost all industries today. Phishing scams are easy to pull off when it comes to mass reach to public. Phishing scams can definitely be avoided with proper education and training. One extra step can make a difference between identity theft and being safe. You will learn how to identify the scams and how to avoid them.	CHS Room 1205
	"So You Want to Work in Cybersecurity? Career Hacks to Help Get You Started" **Session ID:** P1A-9 • **Track/Format:** Track 4/ **Presenters:** Dan Waddell **Description:** This talk is geared towards students and professionals who are interested in a career in cybersecurity. Attendees will hear about the latest skills employers are looking for and how you can help keep your skills sharp in today's dynamic threat landscape. You will also learn about some tips and pitfalls to avoid, and leave with some ideas to help inspire your career journey forward.	CHS Room 1207
	What Community College Cybersecurity Students Can Expect in Upper-Level Courses, and Beyond **Session ID:** P1A-10 • **Track/Format:** Track 4/ **Presenters:** Patrick Johns [Lead], Lauren Griffith, and Arash Ramezani **Description:** Graduating with an Associates Degree is hopefully only the first step in your cybersecurity journey. There are numerous Bachelor's and Master's programs in cyber, and the world of work awaits after that. In this roundtable we will discuss the expectations and realities for students taking upper-level courses in cybersecurity, as well as students who graduate and are hired in a cybersecurity position.	CHS Room 1213

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
2:40 - 3:40pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1A (cont'd)**	
	Cyber Security Career Choices - What Factors do I need to consider? **Session ID:** P1A-11 • **Track/Format:** Track 4/Paper **Presenters:** Steve Chan **Description:** The presentation will cover: What talents should I possess? What skills and knowledge should I acquire? What courses should I take? What are some of the certifications I should consider? What is required to obtain these certifications? What is a mentor? Why should I seek out a mentor? Where can I find a mentor? What is a professional society? What good is a professional society to me? Where can I find a professional society that could be useful for me?	CHS Room 1212
3:50 - 4:50pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1B**	
	EC-Council / Academia... Preparing the Next Generation of Cybersecurity Professionals **Session ID:** P1B-1 • **Track/Format:** Track 1/Demo **Presenters:** Wesley Alvarez **Description:** EC-Council | Academia is a state-of-the-art new learning resource division providing resources to enhance students' Cybersecurity skills. These resources cover Ethical Hacking, Forensics, Network Defense, and Security Essentials. Through the new EC-Council LMS students will study breaches and exploits relevant for today's environment. Learn about this new environment and get free access to the resources to review! Transform your program and certify today!	CAT Room 215
	"Pcaps, or it didn't happen" **Session ID:** P1B-2 • **Track/Format:** Track 1/Paper **Presenters:** Joe Eastman **Description:** This presentation provides an overview of packet analysis, network security monitoring, and network forensics. It covers many related industry and academic components and challenges, and how you can start developing your program's capacity.	CAT Room 225

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
3:50 - 4:50pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1B (cont'd)**	
	The Cybersecurity Career Game: A career planning board game, based on the NICE Framework **Session ID:** P1B-3 • **Track/Format:** Track 1/Audience Participation **Presenters:** Paula Shubock **Description:** The Cybersecurity Career Game is a board game based upon the NICE Cybersecurity Workforce Framework (NCWF). The game is designed to help students understand career options and navigate a career path aligned with their talents and interests. Moving along a career path includes gaining initial knowledge and skills, obtaining certifications and academic credentials, and accumulating experience while being promoted along a choice of different career paths. Chance events include dealing with cyberattacks, co-worker conflicts, budget shortfalls, and special projects. Players accumulate points by gaining expertise, mentoring new cybersecurity staff, contributing to the profession, and advancing in technical or managerial careers.	CAT Room 110
	Cisco's VIRL, A New Powerful Network Simulation Tool **Session ID:** P1B-4 • **Track/Format:** Track 2/Audience Participation **Presenters:** Bill Wolfe [Lead], Kevin Vaccaro **Description:** This session will provide a hands-on experience using a new powerful network simulation tool released by Cisco Systems. The session will include a hands-on demonstration of how to install, configure and use this tool in your classroom to teach advanced network security concepts and skills.	CAT Room 227
	CAE-2Y: What and Why? **Session ID:** P1B-5 • **Track/Format:** Track 2/Paper **Presenters:** Lynne Clark [Lead], Vera Zdravkovich, Judith Kain Emmel **Description:** Participants will receive an overview of the CAE-2Y program to include recent developments as the program evolves. Additional discussions will include the advantages of becoming a CAE-2Y institution and how your institution can benefit from the designation.	CHS Room 1229

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
3:50 - 4:50pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1B (cont'd)**	
	Ranking Wars - a better approach in determining student readiness for the workforce **Session ID:** P1B-6 • **Track/Format:** Track 3/Audience Participation **Presenters:** John Watkins **Description:** This session describes a novel approach to student readiness that can help determine students' readiness for the workforce, and also assist to create structured guides for their career planning. Typical guidelines to determine student success in college rely heavily on grade point average. Instead of merely using in-class performance and GPA, this presentation proposes the creation of a system based on structure guidelines that can improve student completion, preparedness, and success in the information technology field. The goal of this presentation is to inspire attendees to consider this approach, and understand how it can help guide students in their cybersecurity programs.	CHS Room 1201
	Why is Only One Course in Ethics Training Required by Universities? **Session ID:** P1B-7 • **Track/Format:** Track 3/Audience Participation **Presenters:** Jeanette Smith-Perrone **Description:** Technology professionals are placed in positions of great importance throughout society. However, professionals are typically required to take only a single course in ethics. Corporations and organizations often require training and proof of understanding of ethics to guide ethical decision making. This presentation discusses the question as to whether we should assume, as educators, that an individual is ready and capable of making ethnical decisions that support society, commerce, and the health and welfare of humanity?	CHS Room 1213

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
3:50 - 4:50pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1B (cont'd)**	
	Student designed and built securityv ops center (SOC) for a university cybersecurity lab **Session ID:** P1B-8 • **Track/Format:** Track 4/Panel **Presenters:** Zach Blankinship [Lead], Marcus Mabson, Rick Hansen, and William Butler **Description:** The student-led team that designed and built the Capitol Cyber Security Lab Security Operations Center (SOC) will review the concept, design, and build phase. The students will describe this complex project from a student's perspective, and also discuss the benefits of building such a capability and share valuable lessons learned that could save quite a bit of time, effort, and funds for your own future efforts.	CAT Room 203
	Introduction to Cybersecurity Competitions **Session ID:** P1B-9 • **Track/Format:** Track 4/Demo **Presenters:** Dan Manson **Description:** This session describes how cybersecurity competitions are as important to student development as courses and certifications. Student participation in competitions should begin in middle school and continue through college. Students who view competitions as a sport and themselves as cyber athletes develop knowledge, skills, and abilities that provide them with an inside track to internships and full-time positions. Student clubs are an excellent vehicle to support and run competitions. This presentation provides students and clubs with a roadmap for going up the competitions ladder.	CAT Room 213

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
3:50 - 4:50pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1B (cont'd)**	
	Engaging Cyber Security Students **Session ID:** P1B-10 • **Track/Format:** Track 4/Panel **Presenters:** Denise Dragos [Lead], Joan DeBelio and Ying Liu **Description:** St. John's University prides itself on being a diverse metropolitan and global university with a dedication to service and a clear vision of innovative teaching research and service that will engage the students and provide them with the necessary skills to succeed after graduation. It is a professional curriculum built upon a liberal arts core and designed to provide both a comprehensive education leading to a career in cyber security and digital forensics while providing a foundation for further study at the graduate level. The panel will discuss the cyber security curriculum as well as some of the courses and minors that are offered. It will also discuss the possibilities for transfer students. Additionally the panel will discuss the many student faculty engagement activities such as the mentoring program, the Learning Community Events, the academic service learning, the Computer Science and Cyber Security Societies, the conferences and competitions that students can partake in.	CHS Room 1205
	The US Secret Service and Why STEM Matters **Session ID:** P1B-11 • **Track/Format:** Track 4/Paper **Presenters:** Ronald Layton **Description:** This session will highlight the Secret Service need for people with a STEM background.	CAT Room 205

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
5:00 - 6:00pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1C**	
	Experiential Learning Online - Capture the Flag **Session ID:** P1C-1 • **Track/Format:** Track 1/Audience Participation **Presenters:** Gwendolyn Britton **Description:** This session will describe Southern New Hampshire University's online experiential learning model. The purpose of an experiential learning course is to help students gain valuable experience to help with their future employment. You can't get the job without experience and yet, you can't get the experience without the job. The presentation describes how the idea came to fruition, the kinds of experiences provided to students, what is working, and what is not. The presenter and attendees will brainstorm ideas as to the kinds of experiences cyber students need, and how experiential learning courses around those ideas can be constructed.	CAT Room 110
	The State of K-12 Cybersecurity Education in the U.S. **Session ID:** P1C-2 • **Track/Format:** Track 1/Paper **Presenters:** Davina Pruitt-Mentle **Description:** This presentation will describe the work of the National Initiative for Cybersecurity Education (NICE) K-12 Working Group to document the K-12 cybersecurity education programs on-going throughout the country addressing the areas of: increasing career awareness, infusing cybersecurity content across the education portfolio, stimulating innovative educational approaches, and identifying academic and career pathways. Development of two comprehensive reports describing the state of informal and formal K12 cybersecurity education, a white paper on the synergy between computer science and cybersecurity, development of national K-12 cybersecurity curriculum guidelines, launching a National Cybersecurity Career Awareness Week initiative, and piloting a Cybersecurity Career Technical Education Program of Study in partnership with the U.S. Department of Education, are just a few of the activities this active working group has undertaken. Come learn about the updates and how to get involved.	CAT Room 205

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
5:00 - 6:00pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1C (cont'd)**	
	Creating Cybersecurity/Cyberintelligence Pathways **Session ID:** P1C-3 • **Track/Format:** Track 2/Paper **Presenters:** Kimberly Black-Parker [Lead], John Sands **Description:** The Director of the Center for Information and Security Education and Research (CINSER) will discuss articulation opportunities between Cybersecurity programs and Cyberintelligence programs. Learn about the careers in Cyberintelligence and how your students can articulate to an online Cyberintelligence program.	CAT Room 207
	Great Transfer Possibilities for Students **Session ID:** P1C-4 • **Track/Format:** Track 2/Paper **Presenters:** Andrew Hurd **Description:** 80% of students enrolled in community colleges have a bachelor's degree as their end goal. Come join us to learn about how your students can articulate their community college credit into Excelsior College, a non-profit, regionally accredited institution that is designated as a Center of Academic Excellence in Cyber Defense by the NSA/DHS. This discussion will cover advantages of partnering with Excelsior and provide an example of a 3+1 program where your students can transfer 90 community college credits into a bachelor's degree program.	CAT Room 209
	Increasing Critical Infrastructure Education within Cybersecurity Programs at Community Colleges **Session ID:** P1C-5 • **Track/Format:** Track 3/W/S **Presenters:** Christie Jones **Description:** Recognizing the increased need for cybersecurity education within the field of homeland defense/security, CIP/HS is looking to develop a Community College Initiative (CCI) with the purpose of linking critical infrastructure security and resilience (CISR) and cyber education at the community college level. The presentation aims to gain feedback from participants about such an initiative, discuss the viability of the project, as well as determine interest in participation.	CAT Room 225

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
5:00 - 6:00pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1C**	
	Using "Windows To Go" to teach hands-on Windows-based forensics at a community college **Session ID:** P1C-6 • **Track/Format:** Track 3/Paper **Presenters:** Penn Wu **Description:** "Windows To Go" is a feature of the Windows 10/8.1 operating system that enables the Windows OS to run from a USB drive, without interfering with the host computer. This feature allows students to manage a portable Windows-based USB drive to conduct digital forensics and perform research-related tasks virtually anywhere. This presentation is an overview of "Windows To Go" deployment on USB drives that enable faculty and students to boot Windows OS from a USB drive on virtually any PC to perform hands-on learning activities. Attendees will learn how to prepare, create, and manage a "Windows To Go" drive with a guideline to teach Windows-based forensics topics.	CHS Room 1213
	National Cybersecurity Student Association (NCSA) **Session ID:** P1C-7 • **Track/Format:** Track 4/Paper **Presenters:** Gustavo Hinojosa [Lead], Vitaly Ford **Description:** Learn about the National Cybersecurity Student Association, a program under the National CyberWatch Center. This group supports the cybersecurity educational programs of academic institutions, inspires career awareness, and encourages creative efforts to increase the number of underrepresented populations in the field.	CHS Room 1205
	National Cyberwatch Programs Educational Advancement Opportunities at Walden University **Session ID:** P1C-8 • **Track/Format:** Track 4/Paper **Presenters:** Gary Griffith **Description:** Walden University has several different opportunities for students to continue their Cyber Security/ Information Assurance education and obtain Bachelors, Masters, or Doctorate of Information Technology. Walden University is completely online which allows students to continue their education from anywhere. You will have the ability to work in virtual lab environments to learn the new tools to help you further your career in Cyber Security and or Information Assurance.	CHS Room 1207

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

WEDNESDAY • JUNE 28

AFTERNOON CONCURRENT SESSIONS 1 (cont'd)

TIME	DESCRIPTION	LOCATION
5:00 - 6:00pm	**WEDNESDAY AFTERNOON CONCURRENT PRESENTATIONS 1C (cont'd)**	
	Want to Cyber Up your resume? **Session ID:** P1C-9 • **Track/Format:** Track 4/Panel **Presenters:** Anna Carlin [Lead], Dan Manson and Tobi West **Description:** Taking cyber security classes is step one in building your resume. But how do you separate yourself from all the other cyber security students competing for your dream job? You need to Cyber Up! The panel will discuss those activities outside of the classroom that will help sharpen your existing skills through competitions, extend your soft skills through networking opportunities, and leverage professional associations to land that dream job. Participants will leave with ideas on broadening their skill set beyond the classroom. The presentation will share best practices at colleges and how industry partners provide many career enhancement opportunities.	CHS Room 1212
	Collaborative Curriculum Committee Meeting **Session ID:** P1C-10 • **Track/Format:** Track 2/Panel **Presenters:** Margaret Leary [Lead], Bill Butler and Jim Hoag **Description:** **By invitation only.**	CHS Room 1201

WEDNESDAY • JUNE 28

EVENING ACTIVITIES

TIME	DESCRIPTION
6:00pm	Buses from PGCC, Lot G to National Harbor hotels
7:00pm	All are invited to the Sponsors' Reception at the Sunset Room by Wolfgang Puck, 137 National Plaza #200, National Harbor, Maryland

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

PRINCE GEORGES COMMUNITY COLLEGE (PGCC)

TIME	DESCRIPTION
7:00am	Buses from National Harbor hotels to PGCC, Lot G
8:00 - 8:45am	Breakfast at PGCC, Largo Student Center (LSC)
8:00 - 10:00am/ Noon - 2:00pm	Registration/Check-In at PGCC, Largo Student Center (LSC)
8:30 - 5:00pm	Registration/Check-In at PGCC, Center for Advanced Technology (CAT)

MORNING CONCURRENT SESSIONS 2

TIME	DESCRIPTION	LOCATION
9:00 - 5:00pm	3CS Sponsor/Producer Exhibits	CAT Foyer
9:00 - Noon	**THURSDAY MORNING CONCURRENT WORKSHOPS 2**	
	PowerShell Scripting for Cybersecurity Professionals **Session ID:** W2-1 • **Track/Format:** Track 2/Workshop **Presenters:** Mike Masino [Lead], Kevin Vaccaro **Description:** This session will introduce a series of new labs developed by CSSIA for Cybersecurity professionals. Learn how to use PowerShell to execute commands, analyze logs and interface with Metasploit. PowerShell enables a programmer to automate, manage and analyze data in operations in a windows exchange VMware, and even Cisco environments. All participants will be provided access to the new set of labs distributed by CSSIA.	CAT Room 105
	The Digital Forensic Crime Scene Investigator – Manage & Solve an Abduction Case **Session ID:** W2-2 • **Track/Format:** Track 2/Workshop **Presenters:** Patricia Tamburelli [Lead], Joseph Tamburelli **Description:** A course in digital forensics can attract students from different disciplines, with varying backgrounds and different experience and skills. In this hands-on workshop you will participate in a comprehensive exercise designed to appeal to the criminal justice, business, information technology, or computer science student. Attendees will manage and solve an abduction case - from when the call first comes into central dispatch, to the victim being rescued, and the perpetrators brought to justice. Attendees will complete affidavits for search warrants, process the crime scene, collect and analyze evidence, prepare testimony and testify in court. Attendess will also use tools and technology that will aid in a successful resolution of the case.	CAT Room 107

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

MORNING CONCURRENT SESSIONS 2 (cont'd)

TIME	DESCRIPTION	LOCATION
9:00 - Noon	**THURSDAY MORNING CONCURRENT WORKSHOPS 2 (cont'd)**	
	Applied Cryptography Workshop **Session ID:** W2-3 • **Track/Format:** Track 3/Workshop **Presenters:** Yesem Peker **Description:** Participants of this workshop will walk away with adaptable instructional resources for teaching Applied Cryptography in both introductory cybersecurity and computer science courses at the collegiate level. Participants will receive a certificate acknowledging participation in this professional development activity. The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has developed and pilot tested the instructional materials at community colleges across the nation. Furthermore, the instructional materials carefully align to three prominent curricular standards: 1) the NSA CAE Knowledge Units, 2) the ACM Computer Science Curriculum Guidelines, and 3) the College Board AP Computer Science Principles Big Ideas. Adopting this already vetted content will help colleges strengthen their degree programs and certificates, as well as those colleges in pursuit of the NSA CAE2Y designation. This workshop is open to all conference attendees, but seats are limited.	CHS Room 1202
	Cyber Threats and Attacks Workshop **Session ID:** W2-4 • **Track/Format:** Track 3/Workshops **Presenters:** Margaret Leary **Description:** Participants of this workshop will take away adaptable instructional resources for teaching Cyber Threats and Attacks in both introductory cybersecurity and computer science courses at the collegiate level. Participants will receive a certificate acknowledging participation in this professional development activity. Furthermore, the instructional materials carefully align to three prominent curricular standards: 1) the NSA CAE Knowledge Units, 2) the ACM Computer Science Curriculum Guidelines, and 3) the College Board AP Computer Science Principles Big Ideas. The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has finished developing this new modularized content and is now seeking motivated faculty who are interested in being part of an exciting pilot during the Fall 2017 semester. Pilot testers will provide the C5 Project with valuable instructor feedback and student performance data from actual classroom experiences. This workshop is by invitation only.	CAT Room 212

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

MORNING CONCURRENT SESSIONS 2 (cont'd)

TIME	DESCRIPTION	LOCATION
9:00 - Noon	**THURSDAY MORNING CONCURRENT WORKSHOPS 2 (cont'd)**	
	Teaching Network Forensics and Incident Response **Session ID:** W2-5 • **Track/Format:** Track 3/Workshop **Presenters:** Philip Craiger [Lead], Patrick Vilkinofsky **Description:** This hands-on workshop introduces a course in network forensics and incident response taught at Daytona State College. In addition to a discussion and description of topics covered, participants will get hands-on experience using several of the assignments from the course. Topics include: identifying anomalous network packets; malware analysis; honeypots and host-based intrusion detection systems; recovering and analyzing volatile evidence; forensic imaging over a network; and identifying and analyzing evidence of a server intrusion.	CAT Room 109
9:00 - 10:00am	**THURSDAY MORNING PRESENTATIONS 2A**	
	The National CyberWatch Center's Complete Cloud-Based Lab Solution **Session ID:** P2A-1 • **Track/Format:** Track 1/Demo **Presenters:** Casey O'Brien [Lead], Jim Kowatch **Description:** The National CyberWatch Center and Infosec Learning will showcase their scalable and customizable virtual platform that proves skills are the cornerstone of any degree, certificate, training, or assessment program. The hands on virtual lab platform offers National CyberWatch Center members an unmatched turnkey training and assessment solution with real-world tools and technology.	CAT Room 215
	CyberCorps(R) Scholarship for Service Program - What is it and why should you care? **Session ID:** P2A-2 • **Track/Format:** Track 1/Paper **Presenters:** Barbara J. Belón [Lead], Costis Toregas **Description:** The CyberCorps(R) Scholarship for Service Program (SFS) program has financially supported our nation's top students at over 60 colleges and universities for over sixteen years. Historically, 2/3 of the funds have assisted students in MS or Ph.D. programs that are focused on cybersecurity, with the remaining third given to BS students. This past year, the program was extended to sophomores at community colleges. This presentation covers the "who, what, when, how" of getting involved in this significantly-beneficial program for our community college cyber students.	CHS Room 1213

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

MORNING CONCURRENT SESSIONS 2 (cont'd)

TIME	DESCRIPTION	LOCATION
9:00 - 10:00am	**THURSDAY MORNING PRESENTATIONS 2A (cont'd)**	
	My CRC and Me **Session ID:** P2A-3 • **Track/Format:** Track 2/r/t **Presenters:** Corrinne Sande [Lead], Nancy Jones, Jake Mihevc, John Sands, Kim Muschalek, Deanne Wesley, Fred Klappenberger, and Margaret Leary **Description:** CAE-Cyber Defense (CAE-CD) Resource Centers are a network of participating CAE- CD institutions that will provide resources and guidance to applicant institutions. CAE Resource Center leads will discuss resources available to institutions interested in attaining CAE-2Y in their region. Already a CAE-2Y? Share program development resources that your institution has to offer to your region and the CAE Community, in addition to learning more about the CAE Peer Review and Mentoring Programs.	CAT Room 207
	Creating an IT Program that Supports the Cybersecurity Workforce **Session ID:** P2A-4 • **Track/Format:** Track 3 **Presenters:** Alan Flaten [Lead], Thomas Ayers **Description:** Broward College has implemented a strong program to support the Cybersecurity workforce. This presentation describes the two-year process to develop this program, and then shares the current program design. The presentation also discusses cybersecurity across the curriculum for all of Broward's IT-related degrees, a focal point for years to come. The design of a good security awareness program is an important challenge, and Broward has begun to include essential courses/components in every program to cover cybersecurity content. A curriculum development goal is to ensure that every course addresses the importance of information security, its implications, and any risks associated with not having a security posture in the workplace. Overall Security Awareness will remain a focus in future semesters.	CHS Room 1204

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

MORNING CONCURRENT SESSIONS 2 (cont'd)

TIME	DESCRIPTION	LOCATION
9:00 - 10:00am	**THURSDAY MORNING PRESENTATIONS 2A (cont'd)**	
	Puzzle-Based Learning Approach to Teaching Cybersecurity Concepts **Session ID:** P2A-5 • **Track/Format:** Track 3/Demo **Presenters:** Thomas Pigg [Lead], Josh Britt and Dipankar Dasgupta **Description:** The idea behind puzzle-based learning is to stimulate the learning curve by providing interesting challenges. Solving puzzles is an interesting and effective way of learning complex logic and abstract concepts. Puzzles formulate a problem in a specific format that encourages the solver to use skills and expertise and to think "out of the box." The objective of this project is to develop innovative puzzles to assist in the learning process for cybersecurity education. This session will demonstrate puzzles that have been created using several computer gaming platforms such as RPG Maker and Unreal.	CAT Room 225
	Mobile Device Security **Session ID:** P2A-6 • **Track/Format:** Track 3/Paper **Presenters:** Shalon Simmons **Description:** Mobile devices are prevalent in every aspect of society. Today's Cybersecurity programs should devote a significant amount of time to teaching students about Mobile Device Security whether that be a course devoted to the topic or incorporating a module in Cybersecurity classes. This presentation will explore ways to incorporate mobile Device Security into classes. Topics covered will include (but not be limited to) how to secure mobile devices as well as how to secure information stored, processed and/or transmitted by them (e.g. credit card payments via the square). In addition the issue of Bring Your Own Device and how it can be incorporated into the curriculum will also be addressed.	CAT Room 110
	Student Success in a Cyber World **Session ID:** P2A-7 • **Track/Format:** Track 3/ **Presenters:** Kirk Smallwood **Description:** The role of community colleges to properly prepare students for the huge number of cyber security jobs is critical and growing. This session will provide a look at how cyber threats have evolved, the skills necessary to fill them, the role of certifications in job-readiness and how CompTIA can partner with community colleges to help in student success.	CHS Room 1207

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

MORNING CONCURRENT SESSIONS 2 (cont'd)

TIME	DESCRIPTION	LOCATION
10:10 - 11:10am	**THURSDAY MORNING PRESENTATIONS 2B**	
	Model Cybersecurity Degree & Certificate Programs **Session ID:** P2B-1 • **Track/Format:** Track 1/Demo **Presenters:** Casey O'Brien **Description:** In this hands-on demonstration, Casey O'Brien, Executive Director of the National CyberWatch Center, will highlight various two-year degree and certificate programs in Cyber Defense, Network Security Administration, Systems Security Administration, Network Forensics, and Secure Software Development.	CAT Room 110
	National Cyberwatch Programs Educational Advancement Opportunities **Session ID:** P2B-2 • **Track/Format:** Track 1/Panel **Presenters:** Gary Griffith **Description:** In an effort to use CAE Program Office resources most effectively and maintain fiscal responsibility, the CAE-CD program introduced the CAE-CD Candidate Program for prospective CAE-CD institutions in the 2017 CAE-CD cycle year. A spike in applicants interested in the program, yet lacking curriculum and/or programmatic criteria to meet all program requirements, warranted the development of the CAE-CD Candidate program. The CAE-CD Candidate Program will ensure applicant institutions have adequate opportunity for program development and application assistance prior to submitting an application. Presenters will discuss specifics of the program, including 12 steps to a successful application, and the process to enroll for institutions interested in obtaining CAE-2Y or CAE-CDE designation.	CAT Room 227
	CAE-Cyber Defense Candidate Program & 12 Steps to a Successful CAE-2Y Application **Session ID:** P2B-3 • **Track/Format:** Track 2/Paper **Presenters:** Corrinne Sande [Lead], Margaret Leary **Description:** In an effort to use CAE Program Office resources most effectively and maintain fiscal responsibility, the CAE-CD program introduced the CAE-CD Candidate Program for prospective CAE-CD institutions in the 2017 CAE-CD cycle year. A spike in applicants interested in the program, yet lacking curriculum and/or programmatic criteria to meet all program requirements, warranted the development of the CAE-CD Candidate program.	CHS Room 1213

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

MORNING CONCURRENT SESSIONS 2 (cont'd)

TIME	DESCRIPTION	LOCATION
10:10 - 11:10am	**THURSDAY MORNING PRESENTATIONS 2B (cont'd)**	
	Using Flipped Classroom Model for Teaching Computer Security **Session ID:** P2B-4 • **Track/Format:** Track 3/Panel **Presenters:** Suhaib Obeidat **Description:** The flipped classroom model is one in which students watch video lectures at home, and then they practice the concepts covered in the videos through hands-on work in the classroom. A myriad of software and hardware options is available to transfer the in-class experience to a video lecture form. However, this variety can also be a source of confusion and frustration that may deter some instructors from venturing into online teaching. This presentation demonstrates the workflow the presenter follows in creating video lectures using a tablet as well as a desktop computer, along with descriptions of various software applications and hardware. Equipment and software specifications are provided so that educators can replicate the workflow without having to invest a large budget.	CHS Room 1205
	How to Obtain a Security Clearance for Federal Jobs **Session ID:** P2B-5 • **Track/Format:** Track 3/Audience Participation **Presenters:** Beatrice Oluwabuyi [Lead], Ashante Abubakar, Catrilla Watson, and Olusanya Ojikutu **Description:** This session will provide an overview of the process for those who may seek employment with the federal government or contractors for the intelligence community, law enforcement, and other government agencies. After this presentation, attendees will better understand how to navigate the delicate and often complex process of seeking, obtaining, and maintaining a security clearance. Emphasis will be placed on how to recognize, identify, and avoid actions and behaviors that can impact the application process.	CHS Room 1204

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

MORNING CONCURRENT SESSIONS 2 (cont'd)

TIME	DESCRIPTION	LOCATION
10:10 - 11:10am	**THURSDAY MORNING PRESENTATIONS 2B (cont'd)**	
	New pathways for Community College students to the CyberCorps Scholarship for Service program **Session ID:** P2B-6 • **Track/Format:** Track 3/Workshop **Presenters:** Costis Toregas [Lead], Barbara J. Belón **Description:** For the last 12 years, the Scholarship for Service program (SFS) has been awarding scholarships to students in four-year universities to complete their cybersecurity studies. This year, the funding agency, the National Science Foundation, has opened the program to fund community college students in their last year, before enrolling in an SFS school to complete a baccalaureate degree. Ten universities are participating this year with 15 community colleges. The National CyberWatch Center was provided with resources to track the progress of this new effort, and will share early research results that should interest all academic institutions.	CHS Room 1207
11:20 - 12:15pm	**BIRDS OF A FEATHER ROUNDTABLE** Largo Student Center (LSC)	
	LUNCHTIME PLENARY Student Center (LSC) - Community Rooms A, B, and C (12:30 - 2:30pm)	
12:30 - 1:15pm	Lunch	
1:15 - 1:30pm	Bob Spear with Announcements	
1:30 - 2:30pm	Keynote Address 2: **Rick Geritz [Lead], James Foster, Karen Jackson, Gary Griffith, Brian Wilkinson**, *Raising the Community College Cyber IQ ... Cyber is About Skills!*	

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

LUNCHTIME PLENARY

Keynote Speaker Bios

Rick Geritz is CEO and founder of LifeJourney, a technology company whose online career simulation and mentorship program enables students to 'test drive' their future by living a day in the life of America's STEM and Cyber leaders. Rick has spent twenty-five years building early stage technology companies in cybersecurity, media, and education. Prior to founding LifeJourney, Rick was Founding President and CEO of BDMetrics, an online B2B technology serving the nation's top 100 trade associations. Prior to BDMetrics, Rick served as President and GM of SafeNet, a cyber security technology company serving more 25,000 customers across commercial enterprises and government agencies. Rick currently leads Cyber USA .

Karen Jackson serves as the Secretary of Technology for the Commonwealth. Prior to her appointment, she served as the Commonwealth's Deputy Secretary of Technology and Vice President of Broadband Programs for the Center for Innovative Technology. Ms. Jackson serves as a senior advisor to the Governor on technology matters including innovation, data analytics, telecommunications, cybersecurity, and unmanned systems. She is also responsible for overseeing the Commonwealth's IT infrastructure. As Secretary, she is responsible for policy and legislative initiatives as well as developing programs to facilitate innovation, entrepreneurship, technology development, and adoption. Ms. Jackson has been actively engaged in the federal policy initiatives including the development of the National Broadband Plan.

Brian Wilkinson is the Director of Under Armour's Global Information and Cybersecurity group. In this role, Brian is responsible for leading the IT Security strategy and operations for Under Armour's retail, eCommerce and growing digital fitness groups. Prior to joining Under Armour in 2013, Brian was a Director in PwC's Cybersecurity and Forensics practice, where he led teams assisting clients response to data breaches, intellectual property theft, security assessments and litigation support.

Dr. Gary Griffith has worked in the field of information systems and technology for over 30 years. His teaching career started in parallel in the years 1998-2012. During this time he was an adjunct instructor for Austin Peay State University where he taught several courses in programming languages including C, C++, C#, Java, JavaScript, PHP and he also taught courses covering the Principles of Information Security. In 2012 he joined Walden University to teach Masters Courses in operating systems and networking, leadership, and Cybersecurity and helped Walden University in receiving their designation from NSA as a Center of Academic Excellence in Cyber Defense. He is currently working with a team to implement a new Master's program in Big Data Analytics.

James C. Foster is the Co-Founder and CEO of ZeroFOX, The Social Risk Management Company. Foster is an industry veteran and a world-renowned thought leader on cyber security. He's published over a dozen books, holds patents, and has spoken on Capitol Hill about the increase in international cyber threats. In 2006, Foster founded the cyber security firm, Ciphent. Ciphent grew to almost 100 employees with 1000 customers by 2010 when Accuvant acquired it. With a three year growth rate of 8900+%, Ciphent was recognized as the #16th Fastest Growing Private Company in the US and #1 in Maryland by Inc. Magazine. As the Chairman of the Advisory Board and SVP while at Accuvant, Foster led the successful acquisition of V3rity while the company achieved 50% year-over-year growth in 2011 with revenues in excess of $325M.

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

AFTERNOON CONCURRENT SESSIONS 3

TIME	DESCRIPTION	LOCATION
2:40 - 5:40pm	**THURSDAY AFTERNOON CONCURRENT WORKSHOPS 3**	
	CAE-Cyber Defense Mentor and Reviewer Training **Session ID:** W3-1 • **Track/Format:** Track 2/Workshop **Presenters:** Corrinne Sande[Lead], Margaret Leary **Description:** This workshop will provide information for prospective and current faculty peer reviewers and mentors, including addressing how to evaluate applications for CAE-2Y and CAE-CDE designation. Faculty will gain insight into the CAE Program Management Office's expectations with regard to meeting Program Criteria and Knowledge Unit mapping.	CHS Room 1202
	Using IAAS to Teach Cloud-based Security **Session ID:** W3-2 • **Track/Format:** Track 2/Workshop **Presenters:** Bill Wolfe [Lead], John Sands **Description:** This workshop will provide a hands-on experience with the new Muraki cloud-based security products. Learn how organizations can implement and manage enterprise security in the cloud. The session will introduce the full line of new products and how to introduce these technologies in your classroom.	CAT Room 107
	Secure Scripting Workshop **Session ID:** W3-3 • **Track/Format:** Track 3/Workshop **Presenters:** Matt Bishop **Description:** Participants of this workshop will walk away with adaptable instructional resources for teaching Secure Scripting in both introductory cybersecurity and computer science courses at the collegiate level. Participants will receive a certificate acknowledging participation in this professional development activity. The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has developed and pilot tested the instructional materials at community colleges across the nation. Furthermore, the instructional materials carefully align to three prominent curricular standards: 1) the NSA CAE Knowledge Units, 2) the ACM Computer Science Curriculum Guidelines, and 3) the College Board AP Computer Science Principles Big Ideas. Adopting this already vetted content will help colleges strengthen their degree programs and certificates, as well as those colleges in pursuit of the NSA CAE2Y designation. This workshop is open to all conference attendees, but seats are limited.	CAT Room 109

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

AFTERNOON CONCURRENT SESSIONS 3

TIME	DESCRIPTION	LOCATION
2:40 - 5:40pm	**THURSDAY AFTERNOON CONCURRENT WORKSHOPS 3 (cont'd)**	
	Cybersecurity and Society Workshop **Session ID:** W3-4 • **Track/Format:** Track 3/Workshop **Presenters:** Flo Appel **Description:** Participants of this workshop will take away adaptable instructional resources for teaching Cybersecurity and Society in both introductory cybersecurity and computer science courses at the collegiate level. Participants will receive a certificate acknowledging participation in this professional development activity. Furthermore, the instructional materials carefully align to three prominent curricular standards: 1) the NSA CAE Knowledge Units, 2) the ACM Computer Science Curriculum Guidelines, and 3) the College Board AP Computer Science Principles Big Ideas. The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has finished developing this new modularized content and is now seeking motivated faculty who are interested in being part of an exciting pilot during the Fall 2017 semester. Pilot testers will provide the C5 Project with valuable instructor feedback and student performance data from actual classroom experiences. This workshop is by invitation only.	CAT Room 212
2:40 - 3:40pm	**THURSDAY AFTERNOON PRESENTATIONS 3A**	
	Teaching Cybersecurity Online for First Time Online Instructors **Session ID:** P3A-1 • **Track/Format:** Track 1/Audience Participation **Presenters:** Philip Craiger **Description:** Teaching online can be a daunting task for instructors who have never done so, as the process for teaching online is qualitatively different than teaching a class face-to-face. This presentation is for instructors who have never taught online, but are likely to face that eventuality in the future. In this presentation we describe how online courses differ from face-to-face courses, the qualities of a good online cybersecurity course, how to virtualize labs, as well as tips for teaching online learned over the course of 14 years. The presenter has taught online courses since 1999, was instrumental in creating the first online Master of Science in Digital Forensics degree, and taught cybersecurity and cyberforensics in several fully online programs since 2004.	CAT Room 110

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

AFTERNOON CONCURRENT SESSIONS 3

TIME	DESCRIPTION	LOCATION
2:40 - 3:40pm	**THURSDAY AFTERNOON PRESENTATIONS 3A (cont'd)**	
	National Cyber League in the Classroom **Session ID:** P3A-2 • **Track/Format:** Track 1/Demo **Presenters:** Casey O'Brien[Lead], Corrinne Sande **Description:** The National Cyber League (NCL) offers engaging, entertaining, measurable, and scalable methods of validating skill sets to enlist a new generation of cybersecurity professionals. Now in its sixth year, the NCL continues to fine-tune it's powerful and proven model: provide a virtual training ground for faculty and students to develop and validate cybersecurity skills using content aligned with individual and team games – which is scalable across many industry certifications, curricula, job roles, and verticals. What sets the NCL apart from other cybersecurity competitions? It integrates learning objectives in all its activities to measure player's performance and produces individualized NCL Scouting Reports. Come to this presentation to learn more about NCL and how to get NCL curricula into YOUR classroom.	CAT Room 215
	Creating Opportunities for Experience for Students and Maintaining Currency for Faculty **Session ID:** P3A-3 • **Track/Format:** Track 2/Workshop **Presenters:** Denise Pheils **Description:** This session will help attendees identify opportunities in their community to offer students cybersecurity experience and volunteerism, and help faculty maintain cybersecurity currency by partnering with nonprofits in their community. Specifics on how to begin, types of projects, how to use this on-ground and online, and many other topics will be discussed. Lessons learned from more than 80 projects the author completed with students will be shared. Attendees will be offered assistance to initiate a similar program in their area. This is a great fit for coursework, instead of projects, or for non-curricular/extracurricular use by clubs. Why attend? Most cybersecurity (or IT) jobs require experience. This is an option to assist students gain experience while reinforcing the concepts taught in class. Communication, professionalism, ethical behavior, problem solving, and project management are additional concepts experienced beyond cybersecurity.	CAT Room 207

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

AFTERNOON CONCURRENT SESSIONS 3

TIME	DESCRIPTION	LOCATION
2:40 - 3:40pm	**THURSDAY AFTERNOON PRESENTATIONS 3A (cont'd)**	
	Exploring the CAE CDE 2Y Knowledge Units and How Participants Can Improve Them **Session ID:** P3A-4 • **Track/Format:** Track 2/Workshop **Presenters:** Art Conklin **Description:** Knowledge Units (KUs) represent the granular learning elements as defined by the NSA/DHS Center of Academic Excellence designation program. This workshop explores these knowledge units, how they can be used to create curricula for cybersecurity programs, and how instructors can share their own curricular experiences in a crowdsourced effort to improve information security curricula across the community. The focus of this workshop is on demonstrating the breadth and depth of the KUs and how they connect to elements such as the NICE Cybersecurity Workforce Framework (NCWF). Participants are encouraged to bring laptop or mobile device for hands-on exercises.	CAT Room 213
	Cybersecurity Education Challenges **Session ID:** P3A-5 • **Track/Format:** Track 2/Workshop **Presenters:** Lynne Clark **Description:** Late in 2016, the Centers of Academic Excellence - Cybersecurity (CAE-C) Program Management Office (PMO) was tasked by the Office of Management and Budget (OMB) to expand the number of students being graduated in cybersecurity by CAE designated institutions. It would seem this expansion could be accomplished in three ways: increase the number of students being graduated by the schools currently in the program, or expand the program -- or both. When the PMO began collaborating with the schools to plan the way forward, several issues surfaced. Shortage of qualified cybersecurity educators, the need for tools and environments for hands-on learning, availability of faculty professional development opportunities, work readiness of college program graduates, ability to transfer credits among CAEs nationally, and the development of a K-12 pipeline into the CAEs were all identified as issues and challenges. The PMO, working with OMB and other Federal partners, has implemented initiatives towards solving each of those challenges.	CHS Room 1204

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

AFTERNOON CONCURRENT SESSIONS 3

TIME	DESCRIPTION	LOCATION
2:40 - 3:40pm	**THURSDAY AFTERNOON PRESENTATIONS 3A (cont'd)**	
	SCADA "Critical Infrastructure Cybersecurity" course from CyberWatch West **Session ID:** P3A-6 • **Track/Format:** Track 3/Demo **Presenters:** Stephen Miller **Description:** The session will provide participants an overview of the "Critical Infrastructure Cybersecurity" and demonstrate the hands-on and team activities including a walk-through risk assessment case study using the DHS CSET tool. This session will show how to access and download the CSET tool and how to use the Cybersecurity Critical Infrastructure Framework standard within the CSET tool. A SCADA and corporate enterprise network will be used in the assessment demonstration with interaction with the session participants to assess the possible risks in the network. Participants will be provided download links to the CyberWatch West "Critical Infrastructure Cybersecurity" course, e-book, and CSET tool download procedures.	CAT Room 205
	Cybersecurity-infused Computer Science Curricular Guidance for Associate-Degree Transfer Programs **Session ID:** P3A-7 • **Track/Format:** Track 3/Panel **Presenters:** Cara Tang [Lead], Cindy Tucker, Christian Servin, and Elizabeth Hawthorne **Description:** Participants will learn about the cybersecurity-infused computer science curricular guidance from the Association for Computing Machinery (ACM), released in 2017. As the world's largest educational and scientific computing society, ACM has been developing computing curricula for nearly five decades. This guidance was specially designed to aid in the smooth transfer from associate degrees to baccalaureate degrees. The members of the ACM Committee for Computing Education in Community Colleges (CCECC) will provide an overview of the transfer curriculum that contains knowledge units with over 200 learning outcomes with over 75 specific to cybersecurity as applied to computer science. The guidance also provides a three-tiered assessment rubric using measurable verbs from Bloom's Revised Taxonomy. Developed by the ACM CCECC, an online mapping tool will also be demonstrated. The NSA CAE2Y knowledge units and other cyber education standards informed the development of this curricular guidance.	CHS Room 1213

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

AFTERNOON CONCURRENT SESSIONS 3

TIME	DESCRIPTION	LOCATION
3:50 - 4:50pm	**THURSDAY AFTERNOON PRESENTATIONS 3B**	
	What we should have known before we started **Session ID:** P3B-1 • **Track/Format:** Track 1/Panel **Presenters:** Tamara Griffin [Lead], Jo Stephens, Susan Shanlever, Michael Troop, Cindy Grove, Shawn Dennis, and Phillip Dickson **Description:** An entire program in cybersecurity may not always be appropriate for a community college, particularly those in rural areas. A more appropriate starting point may be incorporating cybersecurity concepts into existing courses, and subsequently building-out standalone cybersecurity courses. This presentation discusses the successful incorporation of cybersecurity into the curriculum, including a certificate of proficiency that is just now being offered after building this program for five years.	CAT Room 205
	Incorporating Vendor Training in the Classroom **Session ID:** P3B-2 • **Track/Format:** Track 1/Demo **Presenters:** William Bass **Description:** In this session attendees will learn how to identify vendors who offer training and resources to schools through "academy" programs. Attendees will learn how to incorporate vendor training into their existing curriculum, thereby exposing students to vendor solutions, and subsequently making them more marketable as new employees.	CAT Room 207
	Increasing the Value of your NCC Membership **Session ID:** P3B-3 • **Track/Format:** Track 1/Paper **Presenters:** Barbara J. Belón **Description:** This session is aimed at both current and potential members of the National CyberWatch Center, covering the soon-to-be released 3-level membership model and introducing new benefits for faculty and institutions. The objective of this recrafting of the membership MOU is to provide more meaningful services and opportunities for members, and to harness the human capital of our membership.	CAT Room 209

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

AFTERNOON CONCURRENT SESSIONS 3

TIME	DESCRIPTION	LOCATION
3:50 - 4:50pm	**THURSDAY AFTERNOON PRESENTATIONS 3B (cont'd)**	
	The CAE-CD/CAE-2Y Application Process and Curriculum Alignment. Lessons Learned. **Session ID:** P3B-4 • **Track/Format:** Track 2/Workshop **Presenters:** Kevin Floyd [Lead], Nelbert St. Clair **Description:** Becoming a Center of Academic Excellence in cyber security (CAE-CD or CAE-2Y) can be an important designation for institutions of higher education that seek to become leaders in the field of cybersecurity. One of the most time consuming and daunting parts of the process is the alignment of current cybersecurity curriculum to the CAE knowledge units. In this presentation, the presenters will share their experiences and lessons learned from the successful application process at Middle Georgia State University (MGA) and in their role as C5 Program mentors.	CAT Room 110
	Cybersecurity in Healthcare: Why It's Not Enough, Why It Can't Wait **Session ID:** P3B-5 • **Track/Format:** Track 3/Demo **Presenters:** Robin Saunders **Description:** Between 2010 and 2015, approximately 37 million healthcare records were compromised in data breaches. More than 100 million records reportedly were compromised in 2016 in healthcare. Recent estimates suggest that half of healthcare organizations have experienced cyberattacks in the past 12 months, leading to at least $6 billion in costs and damages; healthcare is now the top industry for cyberattacks. Healthcare is in an exciting time of change. Patients are demanding more convenient and personal care. In today's connected environment, cybersecurity is no longer an option or afterthought: it is a critical strategic asset that must be addressed by every organization. Digital health is changing the way that doctors and patients interact. New technologies allow patients to track their own health and generate data. Health information exchanges are being created to enable access to electronic records across disparate organizations.	CHS Room 1207

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

AFTERNOON CONCURRENT SESSIONS 3

TIME	DESCRIPTION	LOCATION
3:50 - 4:50pm	**THURSDAY AFTERNOON PRESENTATIONS 3B (cont'd)**	
	Draft Curriculum Guidelines from the international ACM Joint Task Force on Cybersecurity Education **Session ID:** P3B-6 • **Track/Format:** Track 3/Demo **Presenters:** Elizabeth Hawthorne [Lead], Sidd Kaza and Diana Burley **Description:** The purpose of the ACM Joint Task Force on Cybersecurity Education (JTF) is to develop comprehensive curricular guidance in cybersecurity education that will support future program development and associated educational efforts. Members of the JTF will present the latest draft guidelines along with its novel curricular thought model. Session participants will have the opportunity to provide valuable feedback on this important work prior to its publication and final release in late 2017. The work of the JTF has been highlighted at Congressional hearings and the Presidential Commission on Cybersecurity. The JTF defines cybersecurity as a "computing-based discipline involving technology, people, information, and processes to enable assured operations in the context of adversaries. It involves the creation, operation, analysis, and testing of secure computer systems. It is an interdisciplinary course of study, including aspects of law, policy, human factors, ethics, and risk management."	CHS Room 1213
	Micro-credentials for Cybersecurity **Session ID:** P3B-7 • **Track/Format:** Track 1/Workshop **Presenters:** Deb Killmeyer [Lead], Amber Epps **Description:** Experts in cybersecurity are among the most sought after professionals in the tech sector, with demand for workers in that field outpacing other IT jobs by a wide margin. Learn how you can satisfy that demand in your region. How do you start a program or reinvigorate a current program to meet the needs of the current high priority occupations in cybersecurity? Develop micro credentials to enhance existing educational pathways or certificate/degrees into the cyber security industry. Attendees will learn how to begin to engage credit and noncredit faculty and departments within your institution; collaborate with industry experts; partner with your local Workforce Investment Board; and involve local employers for industry input and hiring and identify various funding sources in your region. Attendees leave this session with an action plan to access local resources, and with pretest and post test tools to access an individual's skill levels.	CHS Room 1212

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • JUNE 29

EVENING ACTIVITIES

TIME	DESCRIPTION
5:00 - 6:00pm	Networking Opportunity, Largo Student Center (LSC)
6:00pm	Buses from PGCC, Lot G to National Harbor hotels Dinner on your own.

OPTIONAL ACTIVITY

DESCRIPTION
The Capital Wheel and The Carousel at National Harbor www.thecapitalwheel.com (on your own) If you decide to visit the Capital wheel, purchase your tickets at the door and show them your 3CS badge in order to receive a discount. (Regular charge is $16.35 per person. With your 3CS name badge, the ticket costs $13.35.) Each gondola can hold up to 8 people and is climate controlled. The ride is 12 to 15 minutes in length.

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • JUNE 30

PRINCE GEORGES COMMUNITY COLLEGE (PGCC)

TIME	DESCRIPTION
7:00am	Buses from National Harbor hotels to PGCC, Lot G
7:30 - 8:00am	Breakfast at PGCC, Largo Student Center (LSC) Bob Spear with Announcements (7:55am)
8:00 - 8:45am	Keynote Address 3: **Rodney Petersen, NIST**, *National Initiative for Cybersecurity Education (NICE) Updates and Forecasting the Year Ahead*

Rodney Petersen is the director of the National Initiative for Cybersecurity Education (NICE) at the National Institute of Standards and Technology (NIST) in the U.S. Department of Commerce. He previously served as the Managing Director of the EDUCAUSE Washington Office and a Senior Government Relations Officer. He founded and directed the EDUCAUSE Cybersecurity Initiative and was the lead staff liaison for the Higher Education Information Security Council. Prior to joining EDUCAUSE, he worked at two different times for the University of Maryland - first as Campus Compliance Officer in the Office of the President and later as the Director of IT Policy and Planning in the Office of the Vice President and Chief Information Officer. He also completed one year of federal service as an Instructor in the Academy for Community Service for AmeriCorps' National Civilian Community Corps. He is the co-editor of a book entitled "Computer and Network Security in Higher Education". He received his law degree from Wake Forest University and bachelors degrees in political science and business administration from Alma College. He was awarded a certificate as an Advanced Graduate Specialist in Education Policy, Planning, and Administration from the University of Maryland.

9:00 - Noon	Sponsor/Producer exhibits at PGCC (CAT)

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • JUNE 30

MORNING CONCURRENT SESSIONS 4

TIME	DESCRIPTION	LOCATION
9:00 - Noon	**FRIDAY MORNING WORKSHOPS 4**	
	CAE-2Y Application Process: Knowledge Unit Mapping/Program Criteria **Session ID:** W4-1 • **Track/Format:** Track 2/Workshop **Presenters:** Corrinne Sande [Lead], Deanne Wesley and Fred Klappenberger **Description:** This session will provide an overview of the CAE-2Y application process giving participants a perspective on the rigor and standards expected of CAE-2Y recognized institutions. Participants will learn how to map courses to the CAE Knowledge Units and how to address programmatic criteria in the application. Presenters will identify the necessary resources to begin mapping an institution's CAE-2Y program path and the steps involved in entering the information in the CAE Application website.	CAT Room 105
	Home Automation IoT Labs **Session ID:** W4-2 • **Track/Format:** Track 2/Workshop **Presenters:** Kevin Vaccaro [Lead], John Sands **Description:** This session will present the new lab activities developed by the CSSIA team designed to introduce students to home automation devices in the world of IoT. The session will provide an overview of equipment required to implement a lab, introduce participants to the installation and configuration of devices and discuss security concerns associated with home automation. Faculty members will receive access to download new labs developed by CSSIA.	CAT Room 107

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • JUNE 30

MORNING CONCURRENT SESSIONS 4

TIME	DESCRIPTION	LOCATION
9:00 - Noon	**FRIDAY MORNING WORKSHOPS 4 (cont'd)**	
	Securing Risky Data Workshop **Session ID:** W4-3 • **Track/Format:** Track 3/Workshop **Presenters:** Matt Bishop **Description:** Participants of this workshop will take away adaptable instructional resources for teaching Securing Risky Data in both introductory cybersecurity and computer science courses at the collegiate level. Participants will receive a certificate acknowledging participation in this professional development activity. Furthermore, the instructional materials carefully align to three prominent curricular standards: 1) the NSA CAE Knowledge Units, 2) the ACM Computer Science Curriculum Guidelines, and 3) the College Board AP Computer Science Principles Big Ideas. The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has finished developing this new modularized content and is now seeking motivated faculty who are interested in being part of an exciting pilot during the Fall 2017 semester. Pilot testers will provide the C5 Project with valuable instructor feedback and student performance data from actual classroom experiences. This workshop is by invitation only.	CAT Room 109
	Industrial Control Systems/SCADA Security **Session ID:** W4-4 • **Track/Format:** Track 3/Workshop **Presenters:** Shalon Simmons **Description:** Industrial Control Systems/SCADA (Supervisory Control and Data Acquisition) play an essential role in our nation's Critical Infrastructure. However, the security of Industrial Control Systems/SCADA has been largely ignored because the networks have been traditionally separate from the rest of the corporate infrastructure. With advancements in the Internet of Things, many Critical Infrastructure systems can be controlled by mobile devices such as smart phones and corporate network computers. In addition, a great deal of information is readily available on the Internet such as equipment IP Addresses, passwords as well as the code for STUXNET which was used to attack an Iranian nuclear facility. This presentation will provide information on how to build an Industrial Control Systems/SCADA Security class and/or program based on the Department of Homeland Security Industrial Controls System Computer Emergency Response Team curriculum.	CAT Room 212

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • JUNE 30

MORNING CONCURRENT SESSIONS 4

TIME	DESCRIPTION	LOCATION
9:00 - 10:00am	**FRIDAY MORNING PRESENTATIONS 4A**	
	Offering hands-on lab courses online through different forms of cloud based services **Session ID:** P4A-1 • **Track/Format:** Track 1/Paper **Presenters:** Steven Carrigan **Description:** In this session attendees will learn how to synchronously teach cybersecurity courses utilizing Blackboard Collaborate and remote access services, while providing students with the software and resources necessary to complete lab assignments just as if they were sitting in a physical lab. Attendees will also learn about the equipment and other considerations needed to create a successful cybersecurity course online.	CAT Room 205
	No Cost Cybersecurity Labs **Session ID:** P4A-2 • **Track/Format:** Track 1/r/t **Presenters:** Nelbert St. Clair **Description:** A major problem facing institutions of higher education are the costs associated with the implementation of hands-on labs to supplement cybersecurity courses. Additionally, with the expansion of online learning, the demand for virtual lab experiences is increasing. In this session the presenter will provide examples of low or no cost lab options that can easily be integrated into courses that make up a typical cybersecurity curriculum.	CAT Room 110
	Build a Portable Vulnerable Network **Session ID:** P4A-3 • **Track/Format:** **Presenters:** Allan Anderson **Description:** This session demonstrates how to build a portable vulnerable network with low cost, low power computers. You will learn how to build the vulnerable network using Raspberry PI's, LattePanda, and low powered computers, with open source/free software. The network setup is also demonstrated, and how it can be used to help recruit students into Cyber Defense programs.	CAT Room 207

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • JUNE 30

MORNING CONCURRENT SESSIONS 4

TIME	DESCRIPTION	LOCATION
9:00 - 10:00am	**FRIDAY MORNING PRESENTATIONS 4A (cont'd)**	
	National Cyber League (NCL) Lessons Learned Over the Past 5 Years **Session ID:** P4A-4 • **Track/Format:** Track 2/Demo **Presenters:** Casey O'Brien [Lead], John Sener **Description:** The National Cyber League (NCL) was founded with the goal of providing a training ground for collegiate students to develop and practice their cybersecurity skills though combined individual and team exercises. The NCL seeks to differentiate itself from other cyber competitions by extending the timeframe for competitions through the use of environments that support year-round practice and competitions for students in the higher education space. The NCL is also different from other cybersecurity competitions in its intent to move beyond games and toward providing a "development league" that provides "resources for faculty and students to develop knowledge and validate skills." In this presentation, Casey W. O'Brien, NCL Commissioner and John Sener, NCL External Evaluator, present five years' worth of player and coach data, lessons learned along the way, and the growing pains of transforming the NCL into the largest academic cybersecurity program of its type in the world.	CHS Room 1213
	Closing the Gap: Forging Pathways to a Cybersecurity Career **Session ID:** P4A-5 • **Track/Format:** Track 3/Paper **Presenters:** Noel Kyle **Description:** The demand for cybersecurity professionals is at an all-time high. How can the Nation address this exponentially growing need for a knowledgeable and skilled cybersecurity workforce? It begins by using a common language to describe cybersecurity across the public and private sectors, and academia. To support a consistent nationwide understanding of cybersecurity work, DHS co-developed the National Cybersecurity Workforce Framework – a blueprint to describe, categorize and organize cybersecurity work into Specialty Areas, tasks, knowledge, skills, and abilities. Furthermore, DHS built a Workforce Framework-aligned catalog of cybersecurity courses available across the country. For government employees and veterans, DHS offers a free online cybersecurity training environment. Come join this session to learn how to use these resources to build a pathway to cybersecurity employment for yourself or your students. Close the gap by helping to fill the 300,000+ open cybersecurity positions!	CAT Room 215

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • JUNE 30

MORNING CONCURRENT SESSIONS 4

TIME	DESCRIPTION	LOCATION
9:00 - 10:00am	**FRIDAY MORNING PRESENTATIONS 4A (cont'd)**	
	The President's EO on Growing and Sustaining a Knowledgeable and Skilled Cybersecurity Workforce **Session ID:** P4A-6 • **Track/Format:** Track 1/Paper **Presenters:** Rodney Petersen **Description:** President Trump on May 11th issued an Executive Order (EO) to Strengthen the Cybersecurity of Federal Networks and Critical Infrastructures. In part, the EO states that it is the policy of the United States "to support the growth and sustainment of a workforce that is skilled in cybersecurity and related fields as the foundation for achieving our objectives in cyberspace." The EO directs the federal government to "assess the scope and sufficiency of efforts to educate and train the American cybersecurity workforce of the future, including cybersecurity-related education curricula, training, and apprenticeship programs, from primary through higher education." This discussion session is an opportunity to learn more about the cybersecurity workforce provisions of the Executive Order and provide input that will inform findings and recommendations to be submitted to the President by September 8th.	CAT Room 209

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • JUNE 30

MORNING CONCURRENT SESSIONS 4

TIME	DESCRIPTION	LOCATION
10:10 - 11:10am	**FRIDAY MORNING PRESENTATIONS 4B**	
	Recruiting Students for New Cyber Programs **Session ID:** P4B-1 • **Track/Format:** Track 1/Paper **Presenters:** Anthony Hanners **Description:** You've decided to start a cybersecurity program. How do you get students interested? This discussion will feature recruiting efforts that have produced results from a CAE/2Y designated school. Recruiting is more than just presenting your program in a classroom setting or setting up an information table. Participants will learn techniques and strategies that work to entice students and grow the program.	CHS Room 1213
	Teaching and Learning Cyber Security and Digital Forensics using a Cloud-based Lab Infrastructure **Session ID:** P4B-2 • **Track/Format:** Track 1/Workshop **Presenters:** Scott Bethke [Lead], Edward Moskal **Description:** The session will take participants on a journey through the development and implementation of a cloud-based cybersecurity teaching platform. Aeronomy collaborated with Saint Peter's University to deploy advanced cybersecurity software and tool kits in a cloud-based platform for Saint Peter's undergraduate program in cybersecurity. The session will take the attendees through the costs, benefits, and steps for implementing cloud-based learning environments, cybersecurity, digital forensics software, and tool-kits implementation. The participants will take-away: 1) an understanding of the importance of providing a secure, scalable computer lab training environment for students accessible from anywhere, 24/7, by either a PC or MAC; 2) the identification of robust cyber security software and tool-kits that can be used in the curriculum; and 3) how to deploy and manage cloud-based computer labs from a teaching and training perspective.	CAT Room 110

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • JUNE 30

MORNING CONCURRENT SESSIONS 4

TIME	DESCRIPTION	LOCATION
10:10 - 11:10am	**FRIDAY MORNING PRESENTATIONS 4B (cont'd)**	
	Third and Fourth Year Cybersecurity Curriculum **Session ID:** P4B-3 • **Track/Format:** Track 2/r/t **Presenters:** Jim Hoag **Description:** This session describes the results of an analysis comparing cybersecurity curriculum from 12 CAE designated institutions with CyberWatch's two-year model curriculum, NSA/DHS CAE KU's, and NICE KSA's. This presentation is designed to motivate strategic thinking about how to converge toward a standard/common cybersecurity curriculum. The content is also relevant for articulation issues between two- and four-year programs.	CHS Room 1207
	Industrial Control Systems: A curriculum for cyber security training **Session ID:** P4B-4 • **Track/Format:** Track 3/Paper **Presenters:** Greg Randall **Description:** This presentation is intended for Industrial Technology instructors, Computer Science instructors, Division Directors, and Deans who are interested in implementing cyber defense curriculum in existing or future industrial maintenance training programs. The developed course material also introduces computer science students to the field of automation and industrial control. The curriculum provided can be included in current courses as modules or as a standalone course. Outcomes for this presentation aim to prepare students to recognize threats and implement countermeasures to protect critical control system infrastructure from cyber-attacks.	CHS Room 1205

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • JUNE 30

MORNING CONCURRENT SESSIONS 4

TIME	DESCRIPTION	LOCATION
10:10 - 11:10am	**FRIDAY MORNING PRESENTATIONS 4B (cont'd)**	
	Teaching Cybersecurity Across the Disciplines **Session ID:** P4B-5 • **Track/Format:** Track 3/Paper **Presenters:** Debasis Bhattacharya **Description:** Cybersecurity has become a prevalent topic in many colleges, but how it should fit into the overall educational process is still not fully understood. A cybersecurity project at the University of Hawaii Maui College (UHMC), funded by the NSF SFS program, spans multiple disciplines and targets women and minorities. The goal of this project is to ensure that a broad audience of faculty, students and practitioners get trained in the fundamentals of cybersecurity. This project also targets students in middle and high schools, who are drawn to cybersecurity by the mass media but are not educated in the field or aware of future careers in cybersecurity. The session will provide an overview of the techniques, projects and tools used to teach cybersecurity across the disciplines. The session will provide insight into the teaching of cybersecurity to a wide variety of students, ranging in age from middle school through college.	CHS Room 1212
	Zigbee technologies - remote control your world. Using synapse and alliance technology project. **Session ID:** P4B-6 • **Track/Format:** Track 3/Demo **Presenters:** Charline Nixon **Description:** The Zigbee name came from the zig-zagging pattern of bees. Zigbee symbolizes communication between nodes in a mesh network. Some of the computing technologies of Zigbee are Z-wave and smart homes Insteon. Zigbee is so popular nowadays because of its product-tracking, PC remote, residential control, automation and home monitoring. Zigbee technology is also used for consumer electronics, agricultural, environmental and healthcare tracking and monitoring system. Hackers are interested in how they can reverse, track and manipulate the sensors and transceivers, and how they can integrate mobile platforms to control your devices. What makes Zigbee the next big thing for hackers is its monitoring, automation and wireless capabilities to acquire data using mobile devices and use it against to their own advantage.	CAT Room 227

DAILY SCHEDULE

2017 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • JUNE 30

LAST PLENARY / SUMMIT CLOSING

Largo Student Center (LSC), Rennie Forum (11:20 - Noon)

TIME	DESCRIPTION
11:20 - Noon	Student Panel's Perceptions of 3CS
Noon	3CS Closes • Please remember to complete the 3CS Overall Summit Survey using the EduPlus Mobile App (click on the "Survey" button on the main screen). • Mark your calendar for next year's 3CS in Gresham, OR, August 2-4, 2018 • Stick around for one of our post-3CS tours (**see pg. 58**) • Hail and farewell until next year!
12:15pm	Bus from PGCC, Lot G to National Harbor hotels (for those not going on a tour)

Thanks to the 2017 3CS Silver Sponsors

(ISC)²

CERIAS
Cybersecurity Education, Research and Outreach Center

Tennessee Tech College of Engineering

no starch press

POST 3CS TOURS

DESCRIPTIONS

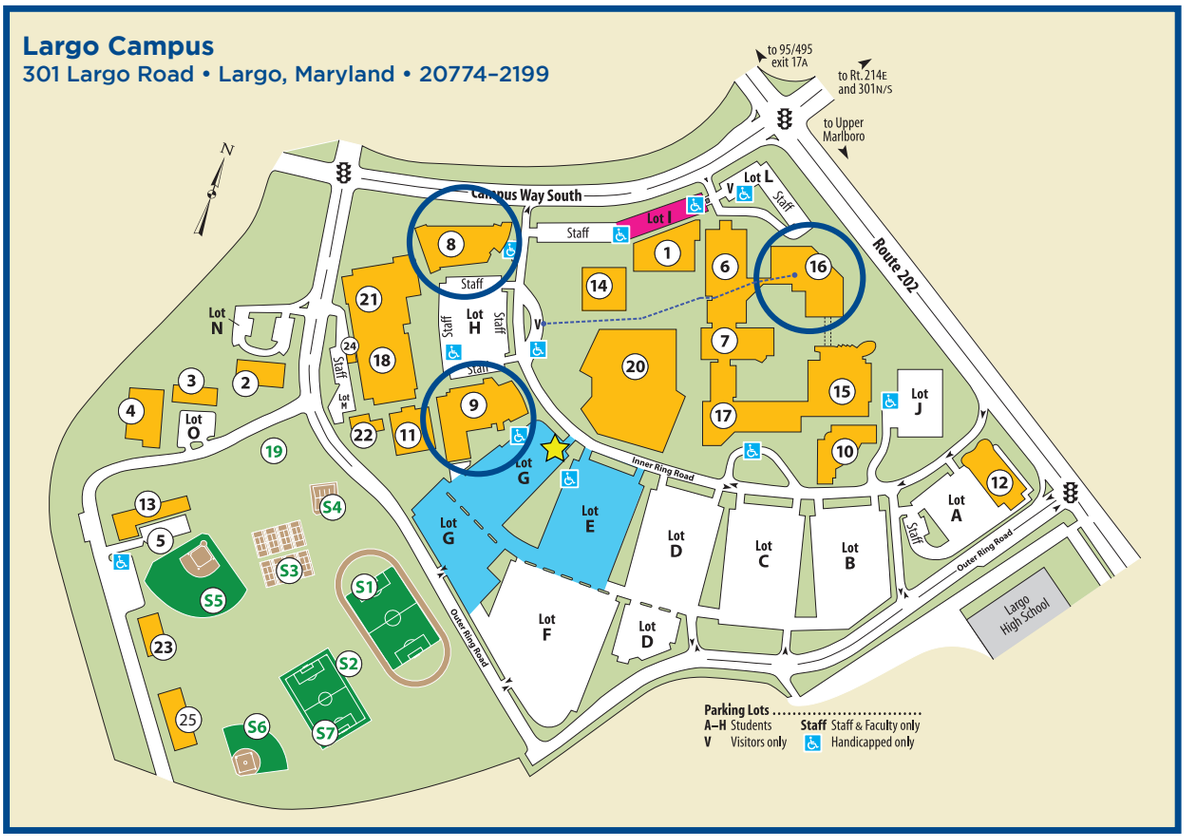
FRIDAY • JUNE 30

OPTIONAL ADD-ON ACTIVITIES (12:30 - 4:00PM)

TIME	DESCRIPTION
11:30am	Bus transfer from National Harbor hotels to PGCC for family members attending tours
12:15pm	Box lunches at PGCC for tour attendees
12:30pm	All tour buses depart PGCC, Lot G
12:30 - 3:30pm	**National Cryptologic Museum & National Electronics Museum Tour** ***Stop 1*** *- National Crytologic Museum - 1:00 - 2:00pm* • The National Cryptologic Museum is the National Security Agency's principal gateway to the public. It shares the nation's as well as NSA's cryptologic legacy and place in world history. Located adjacent to NSA Headquarters, the museum houses a collection of thousands of artifacts that collectively serve to sustain the history of the cryptology profession. ***Stop 2*** *- National Electronics Museum - 2:00 - 3:00pm* • From telegraph and radio to radar and satellites. The National Electronics Museum offers visitors access to the electronic marvels that have helped to shape our country and our world.
	Coresite Tour • This is a tour of CoreSite's Reston, Virginia data center. CoreSite Realty Corporation delivers secure, reliable, high-performance data center and interconnection solutions to a growing customer ecosystem across eight major North American markets. As a carrier neutral data center, hundreds of network providers deliver fiber to meet the performance, security and diversification needs of over 1000 customers and 300 Cloud and IT service providers.
12:30 - 4:00pm	**Spy Museum Tour** • The International Spy Museum, which opened in Washington, DC in 2002, explores the craft, practice, history, and contemporary role of espionage, This is the only public museum in the US solely dedicated to espionage and the only one in the world to provide a global perspective on an all-but-invisible profession that has shaped history and continues to have a significant impact on world events.
	Bus Tour / Sightseeing Washington, DC (additional cost: $30) • Washington DC Monuments & Landmarks Loop, including: Union Station, U.S Capitol North, U.S Capitol South, National Air & Space Museum, National Portrait Gallery, Ford's Theatre & Madame Tussauds, White House, Holocaust Museum, National Ferry Harbour Cruise, L'Enfant Plaza, Smithsonian Metro, Jefferson Memorial, Lincoln Memorial, Martin Luther King Jr. Memorial, National Museum of American History, World War II Memorial, National Museum of Natural History, and National Gallery of Art / Newseum.
4:30pm	Bus leaves PGCC, Lot G for National Harbor hotels

MAPS

PRINCE GEORGES COMMUNITY COLLEGE CAMPUS



8 CENTER FOR ADVANCE TECHNOLOGY (CAT)

9 CENTER FOR HEALTH SERVICES (CHS)

16 LARGO STUDENT CENTER (LSC)

JOB FAIR AND 3CS BUS DROP-OFF AND PICK-UP

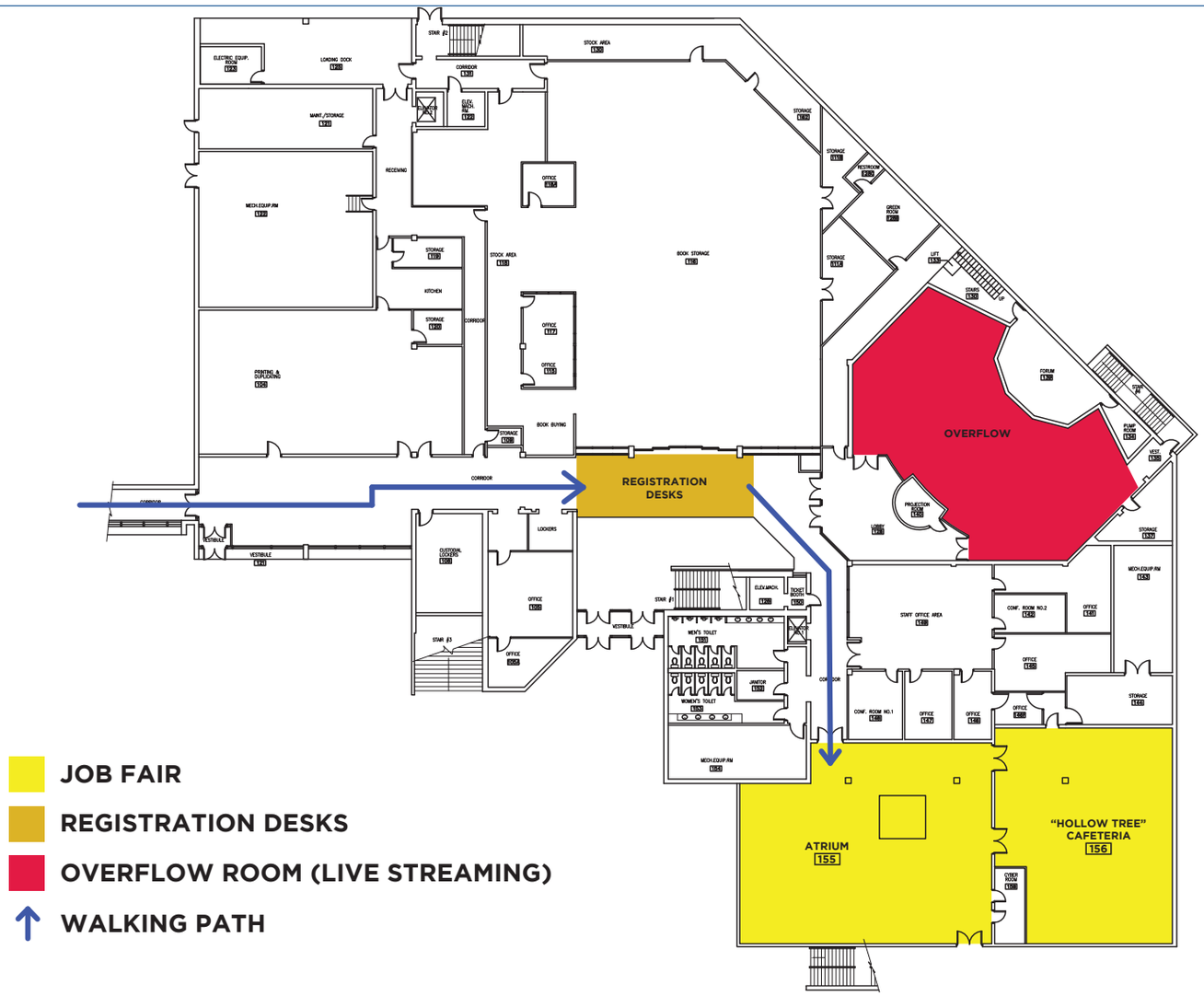
PUBLIC PARKING

3CS Dignitaries, Sponsors, Volunteers, and Staff Parking

WALKING PATH

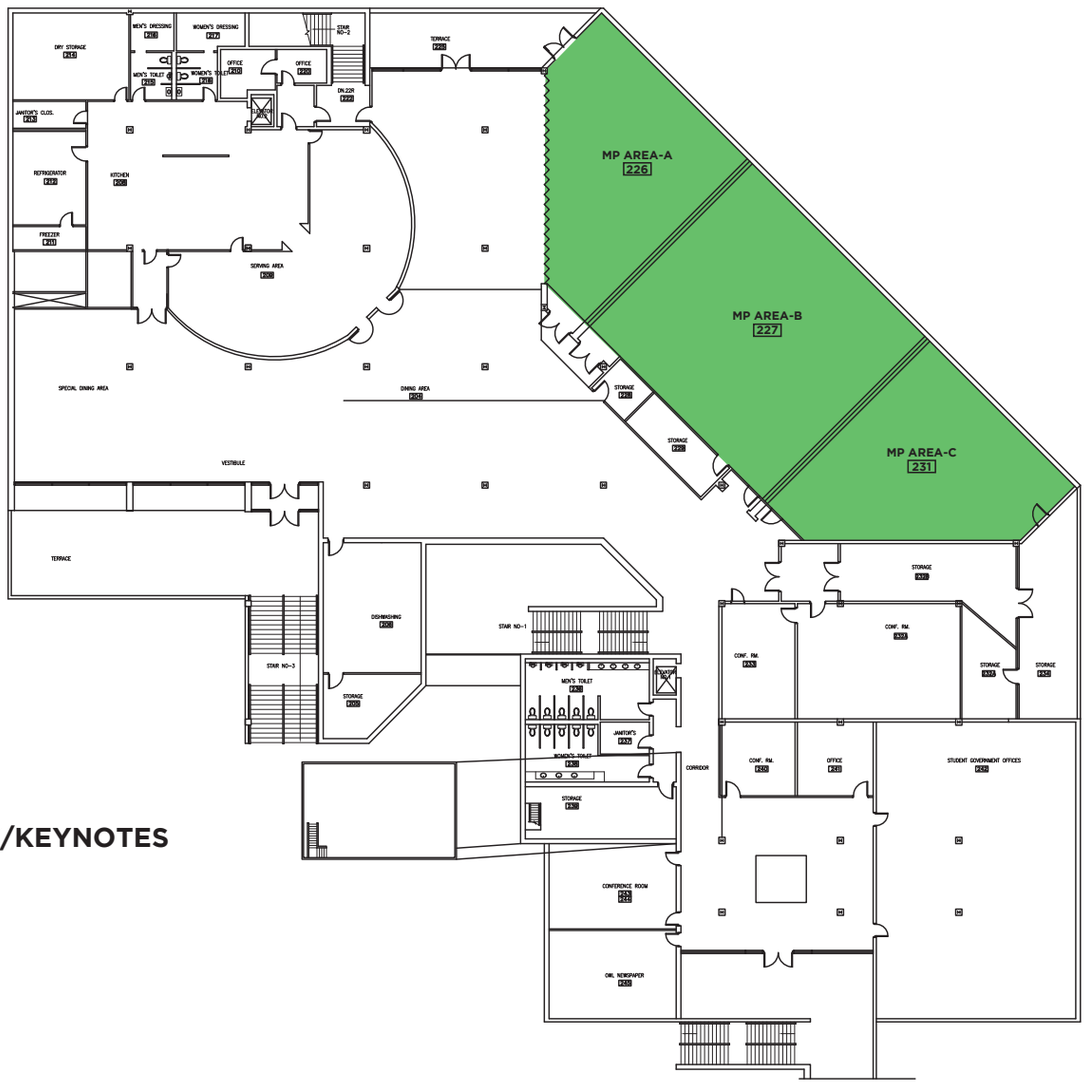
MAPS

LARGO STUDENT CENTER (LSC) - 1ST FLOOR



MAPS

LARGO STUDENT CENTER (LSC) - 2ND FLOOR



PLENARY/KEYNOTES

MAPS

CENTER FOR ADVANCE TECHNOLOGY (CAT) 1ST FLOOR

3CS EXHIBITOR AREA

SESSION ROOMS

3CS INFORMATION BOOTH

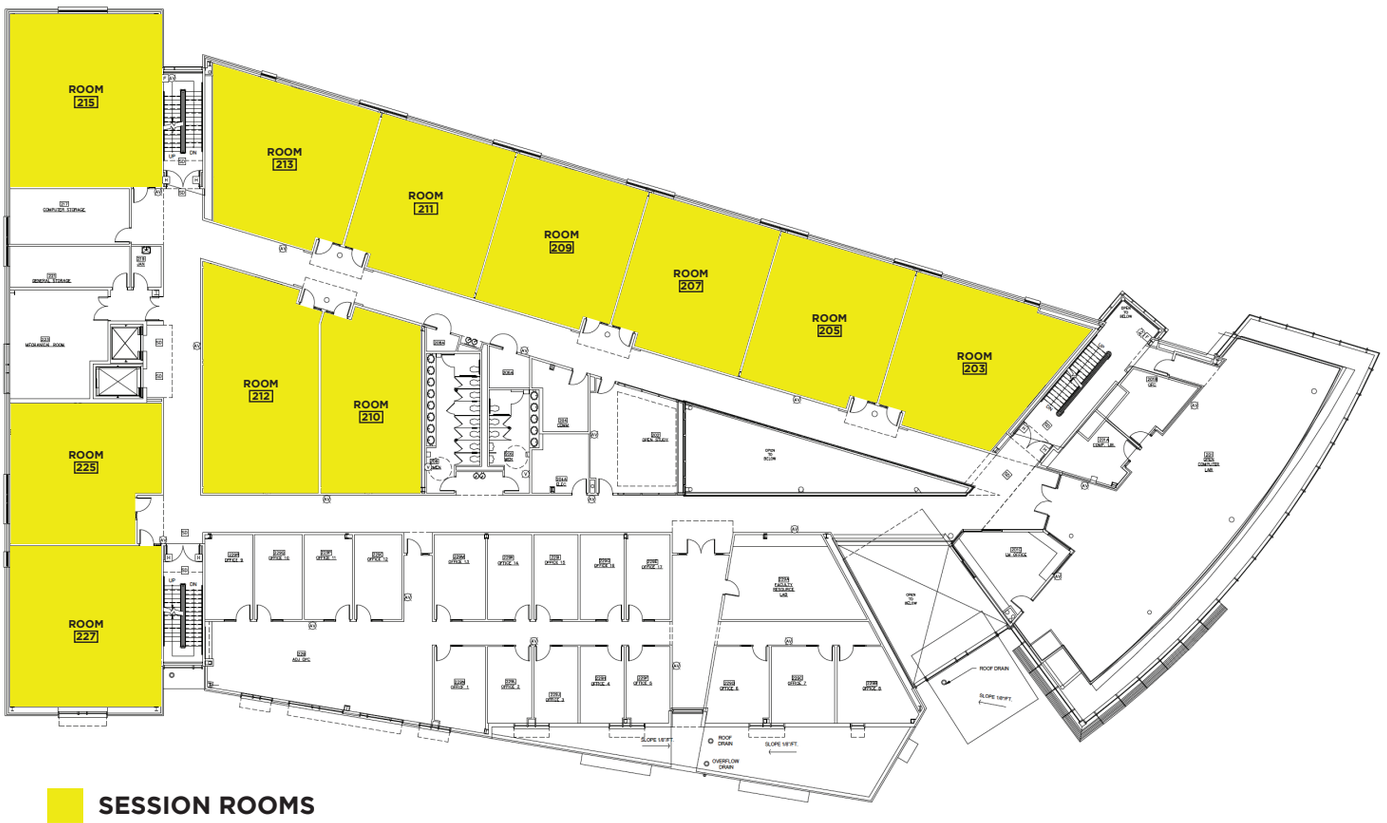
WALKING PATH

REFRESHMENTS

BOOTHS

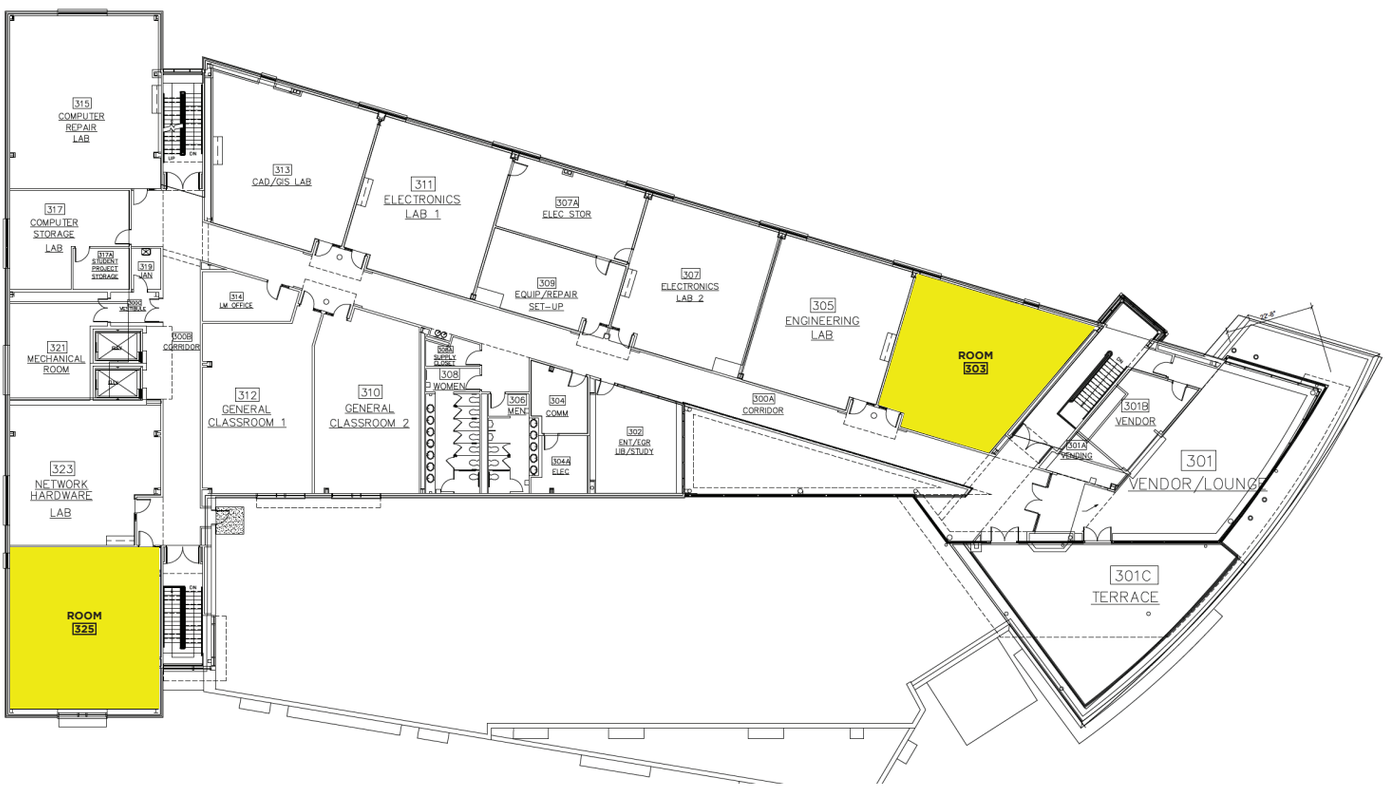
MAPS

CENTER FOR ADVANCE TECHNOLOGY (CAT) 2ND FLOOR



MAPS

CENTER FOR ADVANCE TECHNOLOGY (CAT) 3RD FLOOR



SESSION ROOMS

MAPS

CENTER FOR HEALTH SERVICES (CHS) 1ST FLOOR

SESSION ROOMS

MAPS

CENTER FOR ADVANCE TECHNOLOGY (CAT) 3RD FLOOR

#3CS2017

FOLLOW US
@3CS3CS

3CS Community College Cyber Summit 2017

UNIFY AT 3CS

LIVE TWITTER STREAM

JUNE 28-30, 2017

SESSION QUICK LOCATOR

TIME SLOT	LEAD PRESENTER	LOCATION	SHORT TITLE
WEDNESDAY AFTERNOON WORKSHOPS 1 • 2:45 - 6:00PM			
W1-1	Casey O'Brien	CAT-105	Learn All About the NSF ATE Grant Program
W1-2	Vincent Nestler	CAT-107	NICE Project to Support Cybersecurity Curriculum/CAE2Y
W1-3	Debbie Wolf	CAT-109	Responsible Software Development Workshop
W1-4	Yekem Peker	CAT-212	Cybersecurity Principles Workshop
W1-5	John Sands	CHS-1202	New Cybersecurity and IoT Courses
W1-6	Cassandra Hodges	CHS-1204	Learn2LockIt: CyberSecurity Awareness in the Community
WEDNESDAY AFTERNOON PRESENTATIONS 1A • 2:40 - 3:40PM			
P1A-1	Wende Ruffin-Lowery	CAT-225	Creating the Cyber-Security Talent Pipeline
P1A-2	Levone Campbell	CAT-205	Pursuing a lucrative career in Cyber Security?
P1A-3	Kris Howery	CAT-207	How to Accommodate Today's Diverse Students
P1A-4	Dan Manson	CAT-215	Cybersecurity Games: Building Tomorrow's Workforce
P1A-5	William Butler	CAT-209	Cybersecurity Taught within a Hybrid Course/Degree Prog.
P1A-6	Melissa Dark	CAT-110	The C5 Cybersecurity Curricular Materials
P1A-7	David Batts	CHS-1201	Educational Pathway for IT AAS Graduates
P1A-8	Brian Seligson	CHS-1205	Have you been the victim of a phishing scam?
P1A-9	Dan Waddell	CHS-1207	So You Want to Work in Cybersecurity?
P1A-10	Patrick Johns	CHS-1213	What Community College Cybersecurity Students Can Expect
P1A-11	Steve Chan	CHS-1212	Cyber Security Career Choices
WEDNESDAY AFTERNOON PRESENTATIONS 1B • 3:50 - 4:50PM			
P1B-1	Wesley Alvarez	CAT-215	Preparing the Next Generation of Cybersecurity Professionals
P1B-2	Joe Eastman	CAT-225	"Pcaps, or it didn't happen"
P1B-3	Paula Shubock	CAT-110	The Cybersecurity Career Game
P1B-4	Bill Wolfe	CAT-227	Cisco's VIRL, a new powerful network simulation tool
P1B-5	Lynne Clark	CHS-1229	CAE-2Y: What and Why?
P1B-6	John Watkins	CHS-1201	Determining Student Readiness for the Workforce
P1B-7	Jeanette Smith-Perrone	CHS-1213	Why is Only One Course in Ethics Training Required?
P1B-8	Zach Blankinship	CAT-203	Student Designed and Built Security Ops Center (SOC)
P1B-9	Dan Manson	CAT-213	Introduction to Cybersecurity Competitions
P1B-10	Denise Dragos	CHS-1205	Engaging Cyber Security Students
P1B-11	Ronald Layton	CAT-205	The US Secret Service and Why STEM Matters
WEDNESDAY AFTERNOON PRESENTATIONS 1C • 5:00 - 6:00PM			
P1C-1	Gwendolyn Britton	CAT-110	Experiential Learning Online - Capture the Flag
P1C-2	Davina Pruitt-Mentle	CAT-205	The State of K-12 Cybersecurity Education in the U.S.
P1C-3	Kimberly Black-Parker	CAT-207	Creating Cybersecurity/Cyberintelligence Pathways
P1C-4	Andrew Hurd	CAT-209	Great Transfer Possibilities for Students
P1C-5	Christie Jones	CAT-225	Increasing critical Infrastructure Education within Cybersecurity
P1C-6	Penn Wu	CHS-1213	"Windows To Go" to Teach Hands-on Windows-based Forensics
P1C-7	Gustavo Hinojosa	CHS-1205	National Cybersecurity Student Association (NCSA)
P1C-8	Gary Griffith	CHS-1207	National Cyberwatch Programs Educational Advancement
P1C-9	Anna Carlin	CHS-1212	Want to Cyber Up your resume?
P1C-10	Margaret Leary	CHS-1201	Collaborative Curriculum Committee meeting **(by Invitation Only)**
THURSDAY MORNING WORKSHOPS 2 • 9:00 - NOON			
W2-1	Mike Masino	CAT-105	PowerShell Scripting for Cybersecurity Professionals
W2-2	Patricia Tamburelli	CAT-107	Be The Digital Forensic Crime Scene Investigator
W2-3	Yesem Parker	CHS-1202	Applied Cryptography Workshop
W2-4	Margaret Leary	CAT-212	Cyber Threats and Attacks Workshop
W2-5	Philip Craiger	CAT-109	Teaching Network Forensics and Incident Response
THURSDAY MORNING PRESENTATIONS 2A • 9:00 - 10:00AM			
P2A-1	Casey O'Brien	CAT-215	NCC's Complete Cloud-Based Lab Solution
P2A-2	Barbara Huffman de Belon	CHS-1213	CyberCorps(R) Scholarship for Service Program
P2A-3	Corrinne Sande	CAT-207	My CRC and Me

SESSION QUICK LOCATOR

TIME SLOT	LEAD PRESENTER	LOCATION	SHORT TITLE
P2A-4	Alan Flaten	CHS-1204	Creating an IT program that Supports the Cybersecurity Workforce
P2A-5	Thomas Pigg	CAT-225	Puzzle-Based Learning Approach to Teaching Cybersecurity
P2A-6	Shalon Simmons	CAT-110	Mobile Device Security
P2A-7	Kirk Smallwood	CHS-1207	Student Success in a Cyber World
THURSDAY MORNING PRESENTATIONS 2B • 10:10 - 11:10AM			
P2B-1	Casey O'Brien	CAT-110	Model Cybersecurity Degree & Certificate Programs
P2B-2	Gary Griffith	CAT-227	NCC's Programs Educational Advancement Opportunities
P2B-3	Corrinne Sande	CHS-1213	CAE-Cyber Defense Candidate Program/CAE-2Y Application
P2B-4	Suhaib Obeidat	CHS-1205	Using Flipped Classroom Model for Teaching Computer Security
P2B-5	Beatrice Oluwabuyi	CHS-1204	How to Obtain a Security Clearance for Federal Jobs
P2B-6	Costis Toregas	CHS-1207	CyberCorps Scholarship for Service Program
THURSDAY AFTERNOON WORKSHOPS 3 • 2:45 - 5:45PM			
W3-1	Corrinne Sande	CHS-1202	CAE-Cyber Defense Mentor and Reviewer Training
W3-2	Bill Wolfe	CAT-107	Using IAAS to Teach Cloud-based Security
W3-3	Matt Bishop	CAT-109	Secure Scripting Workshop
W3-4	Flo Appel	CAT-212	Cybersecurity and Society Workshop
THURSDAY AFTERNOON PRESENTATIONS 3A • 2:40 - 3:40PM			
P3A-1	Philip Craiger	CAT-110	Teaching Cybersecurity Online for First Time Online Instructors
P3A-2	Casey O'Brien	CAT-215	National Cyber League in the Classroom
P3A-3	Andrew Hurd	CAT-207	Creating Opportunities for Students and Maintaining Currency
P3A-4	Art Conklin	CAT-213	Exploring the CAE CDE 2Y Knowledge Units
P3A-5	Lynne Clark	CHS-1204	Cybersecurity Education Challenges
P3A-6	Stephen Miller	CAT-205	SCADA “Critical Infrastructure Cybersecurity” from CWW
P3A-7	Cara Tang	CHS-1213	Cybersecurity-infused Computer Science Curricular Guidance
THURSDAY AFTERNOON PRESENTATIONS 3B • 3:50 - 4:50PM			
P3B-1	Tamara Griffin	CAT-205	What we should have known before we started.
P3B-2	William Bass	CAT-207	Incorporating Vendor Training in the Classroom
P3B-3	Barbara Huffman de Belon	CAT-209	Increasing the Value of your NCC Membership
P3B-4	Kevin Floyd	CAT-110	The CAE-CD/CAE-2Y Application Process and Curriculum Alignment
P3B-5	Robin Saunders	CHS-1207	Cybersecurity in Healthcare
P3B-6	Elizabeth Hawthorne	CHS-1213	ACM Joint Task Force on Cybersecurity Education
P3B-7	Deb Killmeyer	CHS-1212	Micro-credentials for Cybersecurity
FRIDAY MORNING WORKSHOPS 4 • 9:00 - NOON			
W4-1	Corrinne Sande	CAT-105	CAE-2Y Application Process
W4-2	Kevin Vaccaro	CAT-107	Home Automation IoT Labs
W4-3	Matt Bishop	CAT-109	Securing Risky Data Workshop
W4-4	Shalon Simmons	CAT-212	Industrial Control Systems/SCADA Security
FRIDAY MORNING PRESENTATIONS 4A • 9:00 - 10:00AM			
P4A-1	Steven Carrigan	CAT-205	Hands-on Lab Courses Online Through Cloud Based Services
P4A-2	Nelbert St. Clair	CAT-110	No Cost Cybersecurity Labs
P4A-3	Allan Anderson	CAT-207	Build a Portable Vulnerable Network
P4A-4	Casey O'Brien	CHS-1213	NCL Lessons Learned Over the Past 5 Years
P4A-5	Noel Kyle	CAT-215	Closing the Gap: Forging Pathways to a Cybersecurity Career
P4A-6	Rodney Petersen	CAT-209	The President’s EO on Growing/Sustaining a Cyber Workforce
FRIDAY MORNING PRESENTATIONS 4B • 10:10 - 11:10AM			
P4B-1	Anthony Hanners	CHS-1213	Recruiting Students for New Cyber Programs
P4B-2	Scott Bethke	CAT-110	Teaching and Learning Cyber Security and Digital Forensics
P4B-3	Jim Hoag	CHS-1207	Third and Fourth Year Cybersecurity Curriculum
P4B-4	Greg Randall	CHS-1205	Industrial Control Systems: Curriculum for Cyber Security Training
P4B-5	Debasis Bhattacharya	CHS-1212	Teaching Cybersecurity Across the Disciplines
P4B-6	Charline Nixon	CAT-227	Zigbee technologies. Using Synapse/Alliance Technology Project.

SAVE THE DATE!

August 2-4, 2018

HOSTED BY:

MT. HOOD COMMUNITY COLLEGE

GRESHAM, OREGON

MT. HOOD
COMMUNITY COLLEGE