



Community
College
Cyber
Summit
2018

FIFTH ANNUAL
**COMMUNITY COLLEGE
CYBER SUMMIT**

PORTLAND/GRESHAM, OREGON
AUGUST 2-4, 2018

HOSTED BY:

**MT. HOOD
COMMUNITY COLLEGE**



NATIONAL
CYBERWATCH
CENTER



MT. HOOD
COMMUNITY COLLEGE

SUMMIT AT A GLANCE

2018 COMMUNITY COLLEGE CYBER SUMMIT (3CS)

WEDNESDAY • AUGUST 1 PRE-SUMMIT ACTIVITIES		FRIDAY • AUGUST 3 MT. HOOD COMMUNITY COLLEGE (MHCC)	
8:00am - 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. <i>Meeting will be held at the Marriott Hotel, Portland. (Mt. Hood Room)</i>	8:00am - 5:00pm	Registration/Check-In at MHCC
8:30am - 3:00pm	IBM CyberDay4Girls (Mt. Hood Community College, Room 1271)	8:00am - 5:00pm	Sponsor/Producer Exhibits (Vista Dining Hall)
6:00am - 9:00pm	Registration/Check-In for 3CS and 3CS Pre-Summit Job Fair (Lobby of the Marriott Hotel)	8:00am - 8:45am	Breakfast (Vista Dining Hall)
		9:00am - Noon	Concurrent Sessions 2 (9:00 - 12:15pm) Workshops 2 Presentations 2A Presentations 2B Birds of a Feather Roundtables
		9:00am - 10:00am	
		10:10am - 11:10am	
		11:20am - 12:15pm	
		12:30pm - 1:30pm	Lunch Plenary • Lunch (Vista Hall) • Keynote 2 (College Theatre)
		1:30pm - 2:30pm	
		2:40pm - 5:40pm	Concurrent Sessions 3 (2:40 - 6:00pm) Workshops 3 Presentations 3A Ice Cream Ice Breaker (Vista Dining Hall) Presentations 3B
		2:40pm - 3:40pm	
		3:50pm - 4:50pm	
		5:00pm - 6:00pm	
			Dinner on your own
THURSDAY • AUGUST 2 MT. HOOD COMMUNITY COLLEGE (MHCC)		SATURDAY • AUGUST 4 MT. HOOD COMMUNITY COLLEGE (MHCC)	
8:00am - 5:30pm	Registration/Check-In at MHCC	8:00am - Noon	Registration/Check-In at MHCC
8:30am - 11:30am	3CS Pre-Summit Job Fair (Mt. Hood Community College)	7:30am - 8:00am	Breakfast (Vista Dining Hall)
9:00am - 11:00am	NCC Executive Briefing	8:00am - 8:45am	Morning Plenary • Keynote 3 (College Theatre)
9:00am - Noon	C5 Workshop	9:00am - Noon	Concurrent Sessions 4 (9:00 - Noon) Workshops 4 Presentations 4A Presentations 4B Student Panel's Perceptions of 3CS
11:30am	Pizza party for Job Fair Students	9:00am - 10:00am	
11:45am - 12:45pm	VIP Luncheon (Invite Only)	10:10am - 11:10am	
12:30pm - 12:50pm	Navigating 3CS for 3CS Newbies	11:20am - Noon	
1:00pm - 2:30pm	Opening Plenary (College Theatre) • Welcomes & Keynote 1	Noon	Closing of Summit Lunch on your own
2:30pm - 6:00pm	Sponsor/Producer Exhibits (Vista Dining Hall)	AFTERNOON ACTIVITIES (OPTIONAL)	
2:30pm - 5:30pm	Concurrent Sessions 1 (2:30 - 6:10pm) Workshops 1 National Cyber League Workshop Presentations 1A Networking Nacho Bar (Vista Dining Hall) Presentations 1B Presentations 1C		
2:30pm - 5:30pm			
2:30pm - 3:30pm			
3:30pm - 4:00pm			
4:00pm - 5:00pm			
5:10pm - 6:10pm			
7:30pm	Sponsor Reception at Marriott Downtown Waterfront Hotel, Portland	1:00pm - 6:30pm	Tours of Portland-area Attractions (pg. 56)

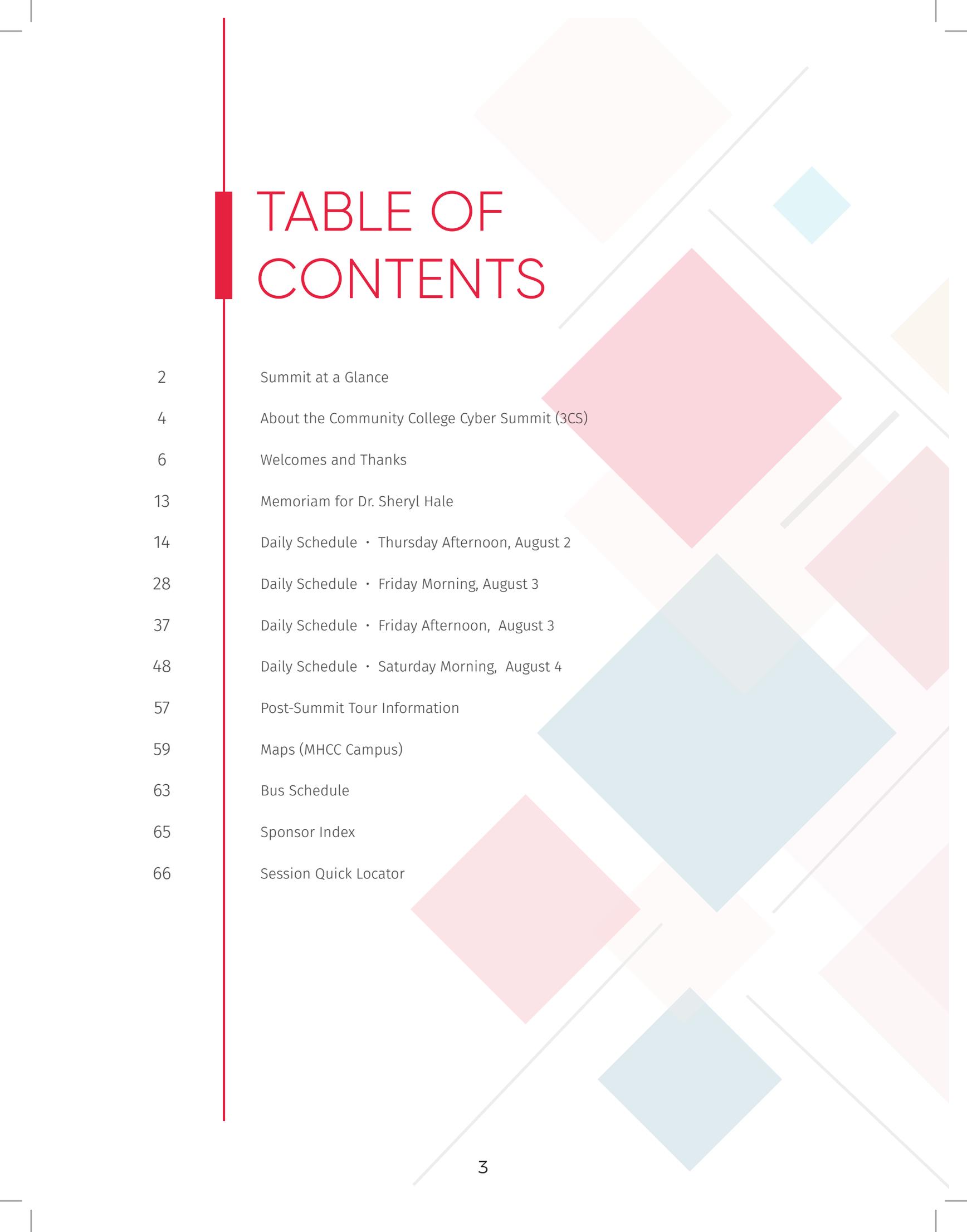


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ABOUT

THE COMMUNITY COLLEGE CYBER SUMMIT

The 5th Annual Community College Cyber Summit (3CS) is organized and produced by four 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. Based on the success of the 2017 job fair, the 2018 3CS again includes a 3CS Pre-Summit Job Fair, this year followed by a Student Track running throughout the Summit. Hence, students have an additional motivation to attend

THEME

Expanding Expertise - Transforming Cybersecurity Programs

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.

EDUPLUS MOBILE APP

3CS will again use the EduPlus Mobile App, so well received by attendees at the 2017 summit. Please download the app to your mobile device, and search for “2018 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 Summit and before you head for home.
- Tell us your bus transportation needs (review/update when you arrive).
- Sign up for an optional post-3CS tour (reservations close Thursday night).

SAVE THE DATE!

Next year's Community College Cyber Summit will take place in Louisiana at **Bossier Parish Community College!** July 31 - August 2, 2019.



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Source: 2017 Global Information Security Workforce Study, Frost and Sullivan Executive Briefing

WELCOME

FROM DR. LISA SKARI

Greetings everyone and Welcome to Mt. Hood Community College!

It is indeed an honor and a privilege to host the Community College Cyber Summit's very first gathering on the West Coast. I hope you will take advantage of the opportunity to explore and experience the beautiful Pacific Northwest.

I would first wish to acknowledge you all for your vision and your commitment to bring cybersecurity and emerging technology training to our community colleges specifically to support our nation and businesses at such a critical and important time. Thank you for the effort, energy, and dedication you bring from wherever you bring it.

As the new President of MHCC, and formerly from Highline College – both CAE institutions – I recognize the value and importance of what you do here today. In an environment as dynamic and faceted as cybersecurity, it is so important that you meet, discuss, and network. This is definitely one time when it is important that you bring something in and take something back.

Please enjoy your time here. Learn lots of things. And when you return home, create the people who will make the difference for all of us.



Dr. Lisa Skari
President
Mt. Hood Community College



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WELCOME

FROM NATIONAL CYBERWATCH CENTER

Dear Colleagues,

2017 was a banner year for attackers who operated without regard for geography, industry vertical, or victim: Ransomware (WannaCry, Petya/NotPetya), leaked government tools (NSA, CIA), continued lack of privacy protections for consumers (Equifax, Yahoo, voter records), campaign hacking (Clinton, Macron)...the list goes on.

Lawmakers are proposing needed legislation; consumer and corporate awareness is at all-time highs; and advances in Machine Learning and Artificial Intelligence applied to Information Security show promise at decreasing the asymmetric threat. However, we must do more. This is where the 3CS comes in.

This year's theme: Expanding Expertise - Transforming Cybersecurity Programs - couldn't be more relevant. Amid a fast-moving and evolving threat landscape, with increased attack surfaces, and the odds in the attacker's favor, what will your school, organization, and/or you do to update your academic and training programs, increase awareness, and ultimately transform the behavior of your colleagues and the lives of your students? Take time over the next few days to get clear about the answers to these questions - a lot depends on it.

Even though the information security challenges are daunting, rest assured that the National CyberWatch Center will do its part to promote and provide educational and workforce planning and development solutions that make a difference. Our evolving programs and services will continue to incorporate "ground truth" practices that increase the maturity of cybersecurity capabilities in individuals and organizations so essential to the reliability and effectiveness of our critical infrastructure and national security.

Here's to a great 2018 3CS!



Casey W. O'Brien
Executive Director & Principal Investigator National CyberWatch Center
Prince George's Community College



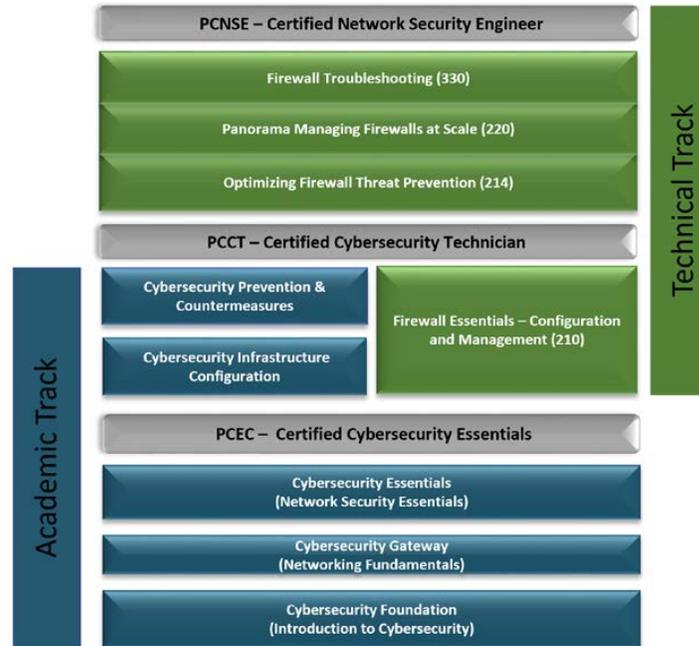
NATIONAL
CYBERWATCH
CENTER

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To equip students with the next-generation cybersecurity knowledge and skills to succeed in today's rapidly changing cyber-threat landscape



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- ✓ Entry-level through advanced cybersecurity e-learning curriculum distributed via Moodle
- ✓ Two integrated curriculum tracks:
 - Academic - aligns to (NICE) framework for cybersecurity work roles
 - Technical – aligns to Palo Alto Networks job roles
- ✓ Faculty training – self-paced, online and in-person
- ✓ Lab files for VMware Workstation and Fusion (free) or virtual lab option provided by our partner, [Network Development Group](#) for a fee
- ✓ Training lab setup support
- ✓ Academic discount available for select Palo Alto Networks firewalls for your Cybersecurity Academy labs through our partner, [ConvergeOne](#)
- ✓ 50% discount on Palo Alto Networks certification exams

Join the Academy

To start incorporating the cybersecurity curriculum and technology into your curriculum, sign and return our Cybersecurity Academy Agreement, which can be found at www.paloaltonetworks.com/academy . For any questions about Palo Alto Networks Cybersecurity Academy, email the Academy team at academy@paloaltonetworks.com .

Palo Alto Networks | Cybersecurity Academy | Brief



WELCOME AND THANK YOU

FROM DR. BOB SPEAR

You are the amazing folks who make this gathering a success. We again have 90+ breakout sessions, all freely contributed by 3CS attendees. The presenters are successful, confident, knowledgeable educators, who wish to share their expertise. Every session offers something to the participants, something you can take home with you and apply to your own courses or your own college. We are grateful to the presenters as well as the Program Committee, and especially the Chair, Corrinne Sande.



Once again, the C5 Project is providing a plethora of workshops and presentations. Thanks to Beth Hawthorne for orchestrating the C5 contribution.

For the second time, 3CS features a 3CS Pre-Summit Job Fair. We expect about 150 students and 20 employers to participate. Vera Zdravkovich chairs the Job Fair Advisory Committee and does much of the legwork and the cheerleading that make the job fair happen.

Sponsors have discovered us! From the first 3CS in 2014, when we had one sponsor, the list has grown every year. This year 3CS has 25 sponsors plus 14 more for the 3CS Pre-Summit Job Fair. I'd like to thank the sponsors and the Sponsorships Committee, chaired by Amelia Phillips.

National CyberWatch Center, as the organizing producer of 3CS, along with the other co-producer centers (CSSIA, CyberWatch West, and BATEC) provide the bulk of the 3CS organization, from serving on various 3CS committees, soliciting session proposals, and encouraging members and partners to attend. Thanks to Casey O'Brien, John Sands, Corrinne Sande, and Deborah Boisvert.

For our first venture on the West Coast, we could not have found a better host college. Mt. Hood Community College (MHCC) has proved an excellent partner. Wayne Machuca, as the lead for MHCC, has facilitated all aspects of the Summit at the host institution.

We again enjoy terrific support from Fran Melvin (Finance Chair) and Lynn Dohm (Tactical Committee).

Finally, we mourn the loss of Sheryl Hale, one of the 3CS Plank Owners, whose unfailing support was critical to the success of the Summit in its first four years.

Have a great time at the 2018 edition of the Community College Cyber Summit!

A handwritten signature in black ink that reads 'Bob'.

Bob Spear, 3CS Chair



THANKS

TO THE ORGANIZATIONS WHO MAKE 3CS POSSIBLE

PRODUCERS



SPONSORS



FEDERAL PARTNERS



SPECIAL THANKS TO OUR HOST COLLEGE:



THANKS

TO THE 3CS COMMITTEES AND STAFF

2018 3CS STEERING COMMITTEE

Bob Spear, Chair	Corrinne Sande	Lynn Dohm	Barbara Belon
Casey O'Brien	Deborah Boisvert	Fran Melvin	Amelia Phillips
Tom Pigg	Sheryl Hale	Pat Tamburelli	Dan Manson
John Sands	Vera Zdravkovich	Wayne Machuca	

2018 3CS PROGRAM COMMITTEE

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

2018 3CS SPONSORSHIP/FUNDRAISING COMMITTEE

Amelia Phillips, Chair	Barbara Belon	Dan Manson
Fran Melvin	Lynn Dohm	Wayne Machuca

2018 3CS TACTICAL SUPPORT COMMITTEE

Lynn Dohm, Chair	Anita Shelton	Michael Gonzalez	Gus Hinojosa
Michael Burt	Ginny Swyndrowski	Joe Tamburelli	Katrinia McNeal
Fran Melvin	Lewis Lightner	Pat Tamburelli	

2018 3CS JOB FAIR ADVISORY COMMITTEE

Vera Zdravkovich, Chair	Marian Merritt	Barbara Belon	Pat Tamburelli
Dan Manson	Fran Melvin	Corrinne Sande	Michael Burt
Lewis Lightner	Lynn Dohm	Gus Hinojosa	Wayne Machuca
Davina Pruitt-Mentle	Bob Spear	John Sands	Stanley Kostka

Program design and layout by Michael Gonzalez, CSSIA

IN MEMORIAM

DR. SHERYL HALE



Our colleague and friend Dr. Sheryl Hale passed away on April 9, 2018, in Stillwater, Oklahoma.

Sheryl was a long-time leader within the community college cybersecurity education community. She served as Co-PI of the Cyber Security Education Consortium (CSEC) throughout its existence and was the driving force that kept the CSEC community together even after the NSF grant ran out. She leveraged her position as Associate Vice President for Workforce and Economic Development at Oklahoma State University's Institute of Technology to proselytize on behalf of cybersecurity education in Oklahoma and elsewhere.

Sheryl was also a major collaborator in the creation and continuation of the Community College Cyber Summit. She helped plan and organize the first Summit, served each year on the 3CS Steering Committee, attracted faculty from the eight-state CSEC region to attend and to present, and was a presenter herself. She will be missed in all of those roles.

DAILY SCHEDULE

2018 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.

THURSDAY • AUGUST 2

PRE-SUMMIT ACTIVITIES

TIME	DESCRIPTION	LOCATION
7:30am	Bus transportation from Marriott Hotel to MHCC, (Pre-Summit Job Fair)	
8:00am - 5:30pm	Registration/Check-In at MHCC - Theatre Foyer	
8:30am - 11:30am	PRE-SUMMIT JOB FAIR - Student Union Area, Room 1051	
9:00am - Noon	<p>Threats and Countermeasures C5 Module Session ID: Pre-1 • Track/Format: Track 3/Workshop Presenters: Margaret Leary Description: The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has developed and tested a variety of cybersecurity materials at community colleges across the nation. Workshop participants will take away modularized content for teaching and assessing Cyber Threats and Countermeasures in their introductory computing and cybersecurity courses. All C5 instructional and assessment materials are freely available from the project website and carry a Creative License for adoption and adaption to meet course needs. The instructional materials 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 jumpstart those colleges pursuing the NSA CAE2Y designation and other colleges developing cybersecurity certificate and degree programs.</p>	Room 2610
9:00am - 11:00am	<p>NCC Executive Briefing Session ID: Pre-2 • Track/Format: Track 2/Audience-Participation Exercise Presenters: Casey O'Brien Description: This is an executive briefing for the National CyberWatch Center's team. (By invitation only)</p>	Room 1267
11:30am	Pizza party for students who attended the job fair	Student Union

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

PRE-SUMMIT ACTIVITIES (CONT.)

TIME	DESCRIPTION	LOCATION
11:45am- 12:45pm	VIP Luncheon (Invite Only) - Town and Gown Room	
Noon	Bus transportation from Marriott Hotel to MHCC	
12:30pm - 12:50pm	<p>Navigating 3CS for 3CS Newbies Session ID: Pre-3 • Track/Format: Track 1/Audience-Participation Exercise Presenters: Bob Spear Description: If this is your first Community College Cyber Summit, come to this session to find out how to get the most out of your experience. Identify the most useful sessions for you to attend. Meet the people you want to meet. Make sure you visit with vendors and sponsors and potential mentors and students. Learn what resources are available to you, not only at 3CS but throughout the year. Do not go home empty-handed! Specifically, take home three good ideas that you can implement, and connect with three new colleagues.</p>	College Theatre, Room 2147

2018 COMMUNITY COLLEGE CYBER SUMMIT (3CS) - MAIN CONFERENCE

	OPENING PLENARY College Theatre - Room 2147 (1:00 - 2:15pm)	
1:00pm - 1:15pm	Introductions/Welcomes <ul style="list-style-type: none"> • Dr. Lisa Skari, President, Mt. Hood Community College • Casey O'Brien, Executive Director, National CyberWatch Center • Bob Spear, Chair, 3CS 	
1:15pm - 1:30pm	Innovations in Cybersecurity Education Awards Presented by Casey O'Brien	
1:30pm - 2:15pm	Keynote Address: Heather Ricciuto, Senior Academic Initiative Leader at IBM <p><i>Heather Ricciuto is Global Leader of IBM Security's Academic Initiative, partnering with educational and research institutions around the globe to develop top cybersecurity talent and close the skills gap. Her passions include workforce diversity, the advancement of women, volunteering and continuous learning. Heather is active in several initiatives involving the recruitment, retention and advancement of women at IBM. These include developing and delivering cyber camps for girls in grades 6 to 8, volunteering at IBM EX.I.T.E. camps and leading a recruiting committee for Women in Security Excelling (WISE) at IBM.</i></p>	
2:30pm - 6:00pm	Sponsor/Producer Exhibits - Vista Dining Hall	Room 2000



DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1

TIME	DESCRIPTION	LOCATION
2:30pm - 5:30pm	THURSDAY AFTERNOON CONCURRENT WORKSHOPS 1	
	<p>National Cyber League (NCL) and Capture the Flag (CTF) Session ID: W1-1 • Track/Format: Track 4/Workshop Presenters: Dan Manson [Lead], Stephen Miller, John Sands, Patricia Tamburelli Description: This session will provide participants with hands-on practice and resources needed to play in the National Cyber League and related Capture The Flag competitions. It will allow attendees to gain hands-on experience with Capture The Flag exercises. Attendees should bring their own laptops with wireless capability. You will learn what National Cyber League and Capture The Flag competitions are about, why they can be as valuable as classroom experience, what employers look for from students who participate in cybersecurity competitions, and how to use NCL Scouting Reports on your resume and during the interview process</p>	Room 2057 & Room 2059
	<p>Building Local Virtual Environments for Ethical Hacking Session ID: W1-2 • Track/Format: Track 2/Workshop Presenters: Tobin Shields Description: While ethical hacking and penetration testing is often one of the most requested and exciting domains of cybersecurity education, teaching it can be difficult. While many of the individual tools come with well-written documentation, and established methodology and textbooks help facilitate developing full courses, simply creating and managing a working lab environment for students to engage with can be cumbersome, expensive, and frustrating to manage. This workshop covers how students can build their own free local lab environment using Virtual Machine. This workshop also shares lessons, labs, instructional methodologies for building a course around this model. It is well suited for both instructors looking to develop an ethical hacking course or instructors who are looking for solutions and additional resources to expand a course that already exists.</p>	Room 3333
<p>Securing Data from Risk Session ID: W1-3 • Track/Format: Track 3/Workshop Presenters: Matt Bishop Description: The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has developed and tested a variety of cybersecurity materials at community colleges across the nation. Participants of this workshop will take away modularized content for teaching and assessing Securing Data from Risk in their introductory computing and cybersecurity courses. All C5 instructional and assessment materials are freely available from the project website and carry a Creative License for adoption and adaption to meet course needs.</p>	Room 1271	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1 (cont.)

TIME	DESCRIPTION	LOCATION
2:30pm - 5:30pm	<p>THURSDAY AFTERNOON CONCURRENT WORKSHOPS 1 (cont.)</p> <p>Reverse Engineering Cybersecurity Professionals Session ID: W1-4 • Track/Format: Track 3/Workshop Presenters: Jim Smith III [Lead], Rudy Watson Description: This workshop is an interactive discussion on reverse engineering the career development process for cybersecurity professionals. Open job descriptions for entry level cyber professionals will be provided to each team with a collective discussion on the skills most relevant for entry level cybersecurity positions. Each team will use a backwards mapping exercise to identify how they build those skills at the ES, MS, HS and Collegiate level. The group will come together to define the career path of a cybersecurity professional using the community schools model. This approach not only assists the K-12 system achieve its goal of college and career readiness, it's a customized solution for meeting employers' specific workforce needs for cybersecurity professionals. Participants will leave this workshop with an increased understanding of community schools, the cybersecurity talent pipeline and reverse engineering cybersecurity careers.</p>	Room 1267

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The National Security Agency (NSA) and the Department of Homeland Security (DHS) have designated APUS as a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE). This designation followed a review of the B.S. in Cybersecurity program. According to the U.S. Department of Labor, employment of information security analysts is projected to grow 28 percent from 2016 to 2026.

American Military University is part of American Public University System, which is accredited by the Higher Learning Commission (hlc.commission.org) and certified to operate by SCHEV. American Military University is not affiliated with the U.S. Military. For more about our graduation rates, the median debt of students who completed the program, and other important information, visit www.apus.edu/disclosure.

AMU American Military University

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1 (cont.)

TIME	DESCRIPTION	LOCATION
2:30pm - 3:30pm	THURSDAY AFTERNOON CONCURRENT PRESENTATIONS 1A	
	<p>Model Cybersecurity Degree & Certificate Programs Session ID: P1A-1 • Track/Format: Track 1/Demonstration Presenters: Casey O'Brien Description: In this hands-on demonstration, Casey W. O'Brien, Executive Director and Principal Investigator 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, as well as new offerings in the works. If you are looking for an entire degree or certificate program for your institution, wondering how to stack various certificates together, need updated and quality Cybersecurity content - this presentation is for you.</p>	Room 2653
	<p>Case Studies from Current Events: Finding Rip-Worthy Headlines Session ID: P1A-2 • Track/Format: Track 1/Audience-Participation Exercise Presenters: Taz Daughtrey Description: With new technologies and threats emerging constantly, our students deserve to be engaged with the latest cybersecurity challenges. "Ripped from the headlines" material is an alternative to textbooks that are static and dated in the midst of rapidly changing events. This session will share some approaches recently used in my classroom and exchange ideas on other possibilities. In four different cybersecurity and networking courses, students are routinely provided recent information (with as little as 24 hours' delay) from trusted sources to analyze relative to the topics being studied. In this session you will explore recent news items that can be related to key concepts and professional concerns.</p>	Room 2610
<p>Global Cybersecurity Curricular Guidance with Community College Exemplars Session ID: P1A-3 • Track/Format: Track 1/Audience-Participation Exercise Presenters: Beth Hawthorne [Lead], Cara Tang Description: This session will present the final Curriculum Guidelines for Post-Secondary Degree Programs in Cybersecurity from the Joint Task Force on Cyber Education. The guidelines include both curricular and workforce exemplars. Several community college exemplars demonstrating various alignments to the guidelines will be presented. Time will be provided for participants to start aligning cybersecurity courses and/or programs using the easy-to-complete correlation templates. Participants may choose to have their exemplars reviewed for posting online as part of the growing community of practice in cybersecurity education.</p>	Room 1001	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1 (cont.)

TIME	DESCRIPTION	LOCATION
2:30pm - 3:30pm	THURSDAY AFTERNOON CONCURRENT PRESENTATIONS 1A (cont.)	
	<p>Design a Safe and Cost Effective Cyber Lab/Classroom Session ID: P1A-4 • Track/Format: Track 2/Audience-participation exercise Presenters: Martin Bencic Description: This session will cover the challenges both procedural and financial when attempting to convert a standard classroom into a cybersecurity lab/classroom. The session will highlight seven key points of contention from the perspective of a large community college that is going through the process. However the same process can be adapted regardless of the size of the program.</p>	Room 1277
	<p>FREE Cybersecurity Curriculum! Available through NSA's National Cybersecurity Curriculum Program Session ID: P1A-5 • Track/Format: Track 2/Demonstration Presenters: Blair Taylor Description: NSA's College of Cyber established the National Cybersecurity Curriculum Program to develop cybersecurity curriculum for the nation. Since 2016, this program has awarded 54 grants to schools to build courses and modules in high need cybersecurity areas. Sample topic areas include: SCADA, Secure Software/Secure System Design, Privacy, Strategy, Ethics, Risk, Introduction to Security/Cybersecurity Principles, Networking, Wireless/Mobile, Competency Based Projects (ex. NICE Challenges), Cryptography, and more! This session will introduce effective, engaging, and usable curriculum that can be used by community college faculty to build or extend their cybersecurity programs.</p>	Room 1266
<p>Infuse Team-Work Competencies in Cybersecurity Curriculum Session ID: P1A-6 • Track/Format: Track 3/Paper Presenters: Lifang Shih Description: Teamwork is one of the key career readiness competencies recognized by employers in all professions. The need of teamwork skills might be even more crucial for cybersecurity professionals because it requires coordination and working with all stakeholders in an organization to properly guard an institution's digital asset. In the online learning environment, teamwork has not been embraced by most of the students or faculty due to the lack of convenient means to support physical interaction among the team members. The purpose of this presentation is to share a framework for developing students' teamwork skills in an online cybersecurity curriculum</p>	Room 2732	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1 (cont.)

TIME	DESCRIPTION	LOCATION
2:30pm - 3:30pm	THURSDAY AFTERNOON CONCURRENT PRESENTATIONS 1A (cont.)	
	<p>Embedding Security into an iCREAT Robotics Course Session ID: P1A-7 • Track/Format: Track 4/Demonstration Presenters: Shamsi Moussavi [Lead], Tony Sena Description: This session demonstrates embedding security into a multidisciplinary course. Two 3-credit college courses were developed to teach high school students programming, technology, and engineering using active learning methodology and robotics projects. While students learn to make an autonomous robot in the first course; they create, code, configure the network, and setup security of a Telepresence robot in the second course. Details of the networking and security labs/assignments will be shared along with our methods for embedding security into a multi-disciplinary robotics course.</p>	Room 1005
	<p>Strengthen Your Cyber Skills with Breakout! Session ID: P1A-8 • Track/Format: Track 4/Demonstration Presenters: Deanne Wesley [Lead], Marcci Connor Description: This session will demonstrate how teachers can integrate breakout activities into a cyber curriculum to teach cybersecurity first principles to K-12 students and teachers. Presenters will discuss their experience and demonstrate a breakout activity. Participants will learn how to integrate a breakout group activity into a cyber curriculum and strengthen current learning objectives. Participants will have an opportunity to participate in a breakout activity.</p>	Room 2554
4:00pm - 5:00pm	THURSDAY AFTERNOON CONCURRENT PRESENTATIONS 1B	
	<p>Excite Students About Your College's Cybersecurity Program! Session ID: P1B-1 • Track/Format: Track 1/Audience-Participation Exercise Presenters: Douglas R. Spindler Description: Having a difficult time explaining cybercrime investigation to potential students? Just as a picture is worth a thousand words, having students (who have no experience) investigate and solve a cybercrime in about an hour is far more effective than anything you could ever tell them. This is a Train-the-Trainer session where you will be taught how to market and present a hands-on cybercrime workshop to potential students. In about an hour you teach students who have no computer experience how to investigate and solve an actual cybercrime. All material presented in this session are free for you to use in your college's outreach program.</p>	Room 1001

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1 (cont.)

TIME	DESCRIPTION	LOCATION
4:00pm - 5:00pm	THURSDAY AFTERNOON CONCURRENT PRESENTATIONS 1B (cont.)	
	<p>We Don't Just Run You Through the Motions. Our Labs Teach You How to Think! Session ID: P1B-2 • Track/Format: Track 1/Demonstration Presenters: Sean Hulbert Description: Cybersecurity in an immersive hands-on experiential secure cloud environment for online training: This session will contain the benefits of distance learning using Security Centric's secure cloud en-vironment with the implementation of cybersecurity best practices and what is used in the work-force today. Security Centric has worked with and designed many cyber security lab environments for Jones and Bartlett, ISSA, Capella, Excelsior, and many other entities. Our designs have won In-foSec, NSA, and DHS awards. Capella University has won the Cyberwarrior's competition 4 years running against US Army and NSA, with labs Security Centric designed.</p>	Room 2653
	<p>Unsafe at Any Speed: Seatbelts for the Cyberworld - An Interactive Introduction to Cybersecurity Session ID: P1B-3 • Track/Format: Track 1/Audience-participation exercise Presenters: Anthony Israel-Davis Description: Look both ways before crossing the street, buckle your seatbelt, and always use dual-factor authentication; things your parents taught you to keep you safe. If your parents didn't teach you about cyber security, you're not alone. When they were growing up, they didn't have to worry about hackers, identity thieves, or phishing. Today, these are daily concerns and cyber safety is an important life skill. In this interactive session, participants will learn basic cybersecurity concepts, begin to frame those as risks, and develop simple actions anyone can take to make themselves more cyber safe. Come prepared with your questions, ideas, and stories; leave being able to communicate about cyber safety in a way that integrates into any curriculum.</p>	Room 2755
<p>Virtualize Your Cybersecurity Labs to Offer Students 24x7 Access Session ID: P1B-4 • Track/Format: Track 2/Paper Presenters: Ron McFarland Description: As an alternative to face to face cyber security class offerings, the possibility of providing cyber security training and education through virtualized/cloud-based services is a potentially viable option. We will discuss labs, instructional videos, presentations and other relevant content that can be hosted through a combination of a CMS and virtualized cloud-based services for lab environments. In particular, the ability to offer 24x7 access to content including robust labs is something that schools can consider. We'll learn about options for virtualizing content and labs for Cyber Security and Digital Forensics as well as the risks that schools should mitigate.</p>	Room 1252	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1 (cont.)

TIME	DESCRIPTION	LOCATION
4:00pm - 5:00pm	THURSDAY AFTERNOON CONCURRENT PRESENTATIONS 1B (cont.)	
	<p>Launch of the Cybersecurity Skills Journal Session ID: P1B-5 • Track/Format: Track 3/Roundtable discussion Presenters: David H. Tobey [Lead], Casey O'Brien Description: This session will premier the new National CyberWatch Center Digital Press research- and practice-oriented Cybersecurity Skills Journal (CSJ). The CSJ is the first journal to bridge the profession's theory-practice divide by publishing research on the theories, measurement methods, evidence-based practices, and effective pedagogy required for skillful performance of cybersecurity tactics, techniques and protocols.</p>	Room 1266
	<p>Use Stackable Credentials to Validate Hand's-On Skills and Enhance Student Career Readiness Session ID: P1B-6 • Track/Format: Track 3/Roundtable Discussion Presenters: Wesley Alvarez Description: Are today's higher education programs incorporating interactive, stackable credentials in cybersecurity domains that properly validate hands-on skills? Are today's industry certifications holding up to employer demands and hand's-on skill validation? Find out how the industry is changing and discover the top trending skills employers are looking for prior to hiring graduates. Also, learn how to confidently prepare your students both for the expectations of employers, and also for confidence in today's workforce through hand's-on cybersecurity education.</p>	Room 2728
<p>Cybersecurity4All - Teaching Cybersecurity Across the Disciplines Session ID: P1B-7 • 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 project at the University of Hawaii Maui College (UHMC), funded by the NSF ATE, spans multiple disciplines and targets women, minorities and underrepresented groups. The goal of the project at UHMC is to ensure that a broad audience of faculty, students and practitioners get trained in the fundamentals of cybersecurity. Participants will obtain case studies, basic lesson plans, essential guidelines to embed modules within courses and tips and guidelines for teaching cybersecurity across the disciplines, within their own institution!</p>	Room 2732	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1 (cont.)

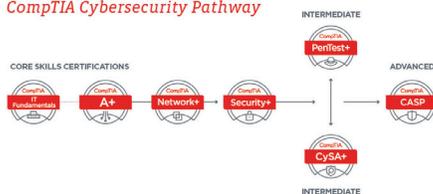
TIME	DESCRIPTION	LOCATION
4:00pm - 5:00pm	<p>THURSDAY AFTERNOON CONCURRENT PRESENTATIONS 1B (cont.)</p> <p>Cyber Up! Your Resume - Classes Alone Are Not Enough Session ID: P1B-8 • Track/Format: Track 4/Panel Presentation Presenters: Anna Carlin [Lead], Tobi West Description: <i>Cyber security classes are 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! We will discuss those activities outside of the classroom that will help sharpen your existing skills through competitions, extend your soft skills through networking opportunities with cyber security professionals, joining student clubs and obtaining internships and apprenticeships.</i></p>	Room 1005



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 *Cyberseek.org

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DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1 (cont.)

TIME	DESCRIPTION	LOCATION
5:10pm - 6:10pm	THURSDAY AFTERNOON CONCURRENT PRESENTATIONS 1C	
	<p>National CyberWatch Center's Complete Cloud-Based Lab Solution Session ID: P1C-1 • Track/Format: Track 1/Demonstration Presenters: Casey O'Brien [Lead], Jim Kowatch Description: In this hands-on demonstration, the National CyberWatch Center and Infosec Learning will demo their virtual platform, which offers an unmatched turnkey educational, training, and assessment solution with real world tools and technology. This lab solution satisfies faculty and student needs. Participants get free access to the platform and can start test driving the labs immediately.</p>	Room 2610
	<p>Puzzle-Based Learning Approach to Teaching Cybersecurity Concepts Session ID: P1C-2 • Track/Format: Track 1/Demonstration Presenters: Thomas Pigg [Lead], Dipankar Dasgupta, Josh Britt Description: Education methods need to prepare learners to build their analytical skills and thinking ability to defend against the sophisticated attacks of the future. The central 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 his/her 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 cyber security education. This presentation will include a demonstration of puzzles/games that have been developed as part of this project. The participants will be given access to the puzzles/games that have been completed via the project website.</p>	Room 1001
<p>Visualizations in Networking and Cybersecurity to Teach Abstract, Complex and/or Dynamic Concepts Session ID: P1C-3 • Track/Format: Track 1/Demonstration Presenters: Mike Qaissaunee Description: Cybersecurity and foundational networking concepts are difficult to convey with traditional teaching tools and techniques. Students often struggle with early concepts such as IP addressing and the OSI model, as well as more advanced topics such as Distributed Denial of Service (DDoS) and SQL injections. This session will demonstrate and share interactive content built to convey these abstract, complex and/or dynamic and difficult to teach concepts. During and subsequent to the session, participants will be able to interact with these learning modules on virtually any device with a modern web browser. Additionally, participants will have the opportunity to provide feedback on existing modules and make suggestions for ongoing and future development.</p>	Room 1277	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1 (cont.)

TIME	DESCRIPTION	LOCATION
5:10pm - 6:10pm	THURSDAY AFTERNOON CONCURRENT PRESENTATIONS 1C (cont.)	
	<p>CAE-Cyber Defense Candidate Program Session ID: P1C-4 • Track/Format: Track 2/Paper Presenters: Corrinne Sande 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.</p>	Room 2755
	<p>A Model Cyber Forensics Associate Degree Program Session ID: P1C-5 • Track/Format: Track 3/Roundtable Discussion Presenters: Beth Hawthorne Description: This roundtable will discuss a model associate degree program approved by the State of New Jersey and developed with a National Science Foundation ATE award entitled, "Cyber Service! Interdisciplinary and Experiential Education for Cyber Forensics Technicians." Participants will learn about the interdisciplinary and program courses that comprise the Cyber Forensics A.A.S. degree, including an elective in criminal justice, Introduction to Criminal Justice, Elementary Statistics, Cybersecurity Principles, Digital Forensics Essentials, Advanced Digital Forensics, Linux Fundamentals, Windows Administration and Security, Network Forensics and Incident Response, Cyber Law and Ethics, Cloud and Personal Device Forensics, and Cyber Forensics Capstone.</p>	Room 1005
<p>CA-Cyberhub & ITTP Cybersecurity Pathway Session ID: P1C-6 • Track/Format: Track 3/Audience-participation Exercise Presenters: Donna Woods [Lead], Shawn Monsen Description: Participants attending this session will gain first hand knowledge of current labor market demands in their state and specific metro areas while obtaining the resources to create and/or further develop a strong IT Technician Pathway for Cybersecurity Specialists. Throughout the session, participants will engage in hands-on interactive tools on the CA-Cyberhub, a valuable open resource to share with site and district administration, career counselors, high school dual enrollment and articulation partnerships, and industry partnerships.</p>	Room 1266	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

THURSDAY • AUGUST 2

AFTERNOON CONCURRENT SESSIONS 1 (cont.)

TIME	DESCRIPTION	LOCATION
5:10pm - 6:10pm	THURSDAY AFTERNOON CONCURRENT PRESENTATIONS 1C (cont.)	
	<p>Avoiding Armageddon Session ID: P1C-7 • Track/Format: Track 3/Paper Presenters: Charles Brooks Description: Industrial/Utility Network Security: A multitude of IT-centric computer/network/cyber security courses and certifications are available, yet few individuals possess the skills and knowledge of cyber security as it relates to Industrial Control Systems (ICS) and Operations Technology (OT). The ICS/OT network security environment is built on devices, protocols, connectivity specifications and requirements that do not exist in the SOHO or Enterprise network environments. You will be introduced to ICS embedded devices including PLCs, RTUs and IEDs. You will also become acquainted with industrial control network protocols including Modbus, DNP3, BacNet, etc. Other key topics include ICS/Utility network communication methods and the IAC tenets associated with these networks that are completely reversed from those taught for enterprise networks. Because ICS/Utility networks are so different from traditional IT networks, you will be challenged to implement security for these networks while also delivering the IAC requirements they need to function properly.</p>	Room 2728
	<p>Learn about the National Cybersecurity Student Association Session ID: P1C-8 • Track/Format: Track 4/Panel Presentation Presenters: Gus Hinojosa [Lead], Jessa Gramenz Description: Learn about the nation's largest cybersecurity student association. We are a one-stop-shop to enhance the educational and professional development of cybersecurity students through activities, networking, and collaboration. This group supports the cybersecurity educational programs of academic institutions, inspires career awareness and encourages creative efforts to increase the number of graduates in the field. Join us and take a tour of our newly developed member portal.</p>	Room 2732

EVENING ACTIVITIES

TIME	DESCRIPTION
6:15pm	Buses from Mt. Hood Community College to Marriott Hotel
7:30pm	All are invited to the Sponsors' Reception at the Marriott Hotel, Portland (heavy hors-d'oeuvres)
8:45pm	Buses from Marriott Hotel to Mt. Hood Community College
9:30pm	Buses from Marriott Hotel to Mt. Hood Community College

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DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

MT. HOOD COMMUNITY COLLEGE

TIME	DESCRIPTION
7:30am	Bus transportation from Marriott Hotel to Mt. Hood Community College (MHCC)
8:00am - 5:00pm	Registration/Check-In at MHCC - Theatre Foyer
8:00am - 8:45am	Breakfast - Vista Dining Hall (Room 2000)
8:00am - 5:00pm	3CS Sponsor/Producer Exhibits - Vista Dining Hall

MORNING CONCURRENT SESSIONS 2

TIME	DESCRIPTION	LOCATION
9:00am - Noon	FRIDAY MORNING CONCURRENT WORKSHOPS 2	
	<p>Unsafe at Any Speed: Seatbelts and Cybersecurity Session ID: W2-1 • Track/Format: Track 1/Workshop Presenters: Anthony Israel-Davis Description: Physical safety was taught to us almost from birth, but what about cyber-safety? When it comes to computers, we're driving without seatbelts, leaping before we look, and leaving our doors unlocked. Participants in this workshop will learn core cybersecurity concepts and build on what you already know. Blending story-telling, question-and-answer, and idea-generating activities, you will walk away from this session able to bring cyber safety into your classrooms and curricula. Out of this workshop you will be able to talk about cyber security in an informed way, have ideas for integrating into your curricula, and have the resources to go deeper and wider in the future.</p>	Room 1267
	<p>Applied Cryptography Session ID: W2-2 • Track/Format: Track 3/Workshop Presenters: Cliff Kemp Description: The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has developed and tested a variety of cybersecurity materials at community colleges across the nation. Participants of this workshop will take away modularized content for teaching and assessing Applied Cryptography in their introductory computing and cybersecurity courses. All C5 instructional and assessment materials are freely available from the project website and carry a Creative License for adoption and adaption to meet course needs. The instructional materials 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 jumpstart those colleges pursuing the NSA CAE2Y designation and other colleges developing cybersecurity certificate and degree programs.</p>	Room 3333

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

MORNING CONCURRENT SESSIONS 2 (cont.)

TIME	DESCRIPTION	LOCATION
9:00am - Noon	FRIDAY MORNING CONCURRENT WORKSHOPS 2 (cont.)	
	<p>Jumpstart Teaching Cybersecurity Principles Session ID: W2-3 • Track/Format: Track 3/Workshop Presenters: Yesem Kurt Peker [Lead], Beth Hawthorne Description: The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has developed and tested a variety of cybersecurity materials at community colleges across the nation. Participants of this workshop will take away modularized content for teaching and assessing Cybersecurity Principles in their introductory computing and cybersecurity courses. All C5 instructional and assessment materials are freely available from the project website and carry a Creative License for adoption and adaption to meet course needs. The instructional materials 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.</p>	Room 1271
	<p>Integrating Analytics into Articulated Cybersecurity Programs Session ID: W2-4 • Track/Format: Track 3/Workshop Presenters: Bill Butler [Lead], Helen Barker, Joseph Roundy Description: This panel will discuss how a 2Y, 4Y, and industry partner can create articulated programs to produce cybersecurity graduates, at each level, with mission-critical analytic skills. The demand for cybersecurity professionals with analytic skills has already far exceeded the number of graduates produced each year. This panel composed of Montgomery College, Capitol Technology University and SAS Institute will discuss the basics of designing basic and advanced courses into 2Y and 4Y cybersecurity programs. Montgomery College (2Y) and Capitol Technology University (4Y) will also discuss how to successfully articulate analytics programs to give students the opportunity to earn degrees at each level to enhance their careers and address a critical workforce issue.</p>	Room 1277
	<p>Scripting for Cybersecurity Specialists Session ID: W2-5 • Track/Format: Track 3/Workshop Presenters: Mike Masino Description: This workshop is designed to provide an overview of modern scripting languages commonly used to build and extend security tools. The course will introduce scripting on both the Microsoft and Linux platforms and will include an overview of Powershell and Python. There will be a series of labs, each one exploring the uses of the language and 3rd party modules for accomplishing tasks including scanning, enumeration and basic exploitation. Note: You will be provided with Python and Powershell labs but we will only be doing an overview of basics and how to use the labs in class.</p>	Room 2554

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

MORNING CONCURRENT SESSIONS 2 (cont.)

TIME	DESCRIPTION	LOCATION
9:00am - 10:00am	FRIDAY MORNING CONCURRENT PRESENTATIONS 2A	
	<p>Get-Them-Young! How to Offer Dual-Credit Courses to Build Program Pathways Session ID: P2A-1 • Track/Format: Track 1/Demonstration Presenters: Tobin Shields [Lead], Terry Braught Description: Often it just takes a single course in cyber security to spark a newfound passion with students, but the hardest part can often be attracting students to take that first course. One way to promote cyber programs within a community college is to work with local high school technology teachers and offer dual-credit opportunities for introductory cyber courses. Not only does this act as a strong recruiting tool, but it also gets perspective students engaged with cyber early on. However, the challenges of mentoring, training, and working with high school teachers can seem to outweigh the positives of building those relationships. This session discusses the success that Oregon high school teachers have had working with Mt. Hood Community College in offering dual-credit courses.</p>	Room 2732
	<p>Cybersecurity Academy Enables Faculty to Protect Life in the Digital Age One Student at a Time Session ID: P2A-2 • Track/Format: Track 1/Demonstration Presenters: Thomas Trevethan [Lead], James Dalton Description: During this session, you will learn how to build from scratch and/or enhance your current cybersecurity programs and lab environments at no cost by partnering with Palo Alto Networks Cybersecurity Academy. Palo Alto Networks is spearheading the effort to restore faith in the digital age by taking strategic action to bridge the cybersecurity skills gap through the Cybersecurity Academy program. The Academy creates partnerships with qualified high schools, colleges, universities and technical institutes to provide next-generation security technology, faculty training, course materials, certification, and labs to be implemented as part of their academic cybersecurity curriculum. It's a collaboration designed to equip students with the cybersecurity skills and knowledge required to succeed in today's rapidly evolving threat landscape.</p>	Room 2610
	<p>Success In the Tech Economy Session ID: P2A-3 • Track/Format: Track 1/Paper Presenters: Kirk Smallwood Description: This session will describe the ever-growing skills gap when it comes to Cyber Jobs as well as how Cyber-threats have evolved. It will also present opportunities, like CompTIA's Cyber Pathway of certifications that lead to many key cyber-roles. In addition, it will cover what instructors/academic institutions can do to create an environment of student success.</p>	Room 2755

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

MORNING CONCURRENT SESSIONS 2 (cont.)

TIME	DESCRIPTION	LOCATION
9:00am - 10:00am	FRIDAY MORNING CONCURRENT PRESENTATIONS 2A (cont.)	
	<p>CAE-Cyber Defense Resource Centers Session ID: P2A-4 • Track/Format: Track 2/Paper Presenters: Corrinne Sande 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.</p>	Room 1001
	<p>Reach to Teach: Online Prep for Adjunct Faculty Session ID: P2A-5 • Track/Format: Track 3/Audience-Participation Exercise Presenter: Shelly Heller Description: Reach To Teach is ready to pilot, revise and deploy an online course to provide CyberCorps alumni, potential adjunct faculty, the insight into the community college climate, context and pedagogy. The online course includes benefits and challenges of teaching in the community colleges, as well as an introduction to good teaching practices along with examples of how to build lessons based on the curriculum and course structure in which an adjunct might be teaching. This active 3 CPS session will permit attendees to participate in, and critique, the online course. Participants will be able to use the online course as preparation for teaching for potential adjunct faculty at a community college.</p>	Room 2600
<p>Transform Your Classes with the EC-Council STORM Mobile Hacking Kit & Gale Force 10 Expansion Pack! Session ID: P2A-6 • Track/Format: Track 3/Demonstration Presenters: Wesley Alvarez [Lead], Amanda Bondoc Description: In this session you will learn how to incorporate NEW technology within your cybersecurity classes with EC-Council STORM and the Gale Force 10 expansion pack! Learn how to challenge your students with new hardware and software designed to break boundaries and encourage creativity. Use these devices to setup your own learning solutions, or create Capture the Flag games on multiple devices to run your own competitions and more!</p> <p>STORM Kit Overview: https://www.youtube.com/watch?v=6iklAce7zrg&t=1s</p>	Room 2611	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

MORNING CONCURRENT SESSIONS 2 (cont.)

TIME	DESCRIPTION	LOCATION
9:00am - 10:00am	FRIDAY MORNING CONCURRENT PRESENTATIONS 2A (cont.)	
	<p>New Frontiers in Creating CyberSecurity/CyberIntelligence Pathways Session ID: P2A-7 • Track/Format: Track 3/Panel Presentation Presenters: Kimberly Black [Lead], Moussa Ayyash, John Sands, Beth Coglianese Description: Chicago State's Center for Information and Security Education and Research (CINSER) will discuss a partnership and opportunities between a Cybersecurity program, a Cyberintelligence program and high school outreach through dual credit. Participants will learn about opportunities in Cyberintelligence and how students can articulate to an online Cyberintelligence program.</p>	Room 1266
	<p>Personal Brand Development - Marketing Yourself Online Session ID: P2A-8 • Track/Format: Track 4/Panel Presentation Presenters: Gus Hinojosa [Lead], Jessa Gramenz Description: Getting the job isn't as simple as it was 10 or even 20 years ago. Recruiters and Company HR look to the digital world first to find information on employment prospects. Developing your online brand is the first step in preparing for your career in Cybersecurity. While there are some surefire ways to sabotage your chances without even realizing it, there are some really easy ways to stand out from the rest of the competition by learning what employers are looking for and crafting your online identity around your achievements. Let us take your LinkedIn from just beginning to all star, while also growing your network with tips and tricks that work.</p>	Room 1005



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offering courses in Cybersecurity

NEEDED OR NOT?
Accreditation Criteria for Two-Year Cybersecurity Programs

A Listening Session at the
Community College Cyber Summit 2018 (3CS)
Friday, August 3, 2018
5:00 p.m. to 6:00 p.m.

MT. HOOD COMMUNITY COLLEGE, SECTION 3B

- > How would the Cybersecurity field benefit from ABET accreditation of community college programs?
- > How can this investigation relate to CAE designations?
- > What represents quality in two-year cyber programs?
- > Would your program consider seeking ABET accreditation if it was offered?
- > What concerns do you have, or barriers exist, to this proposed initiative?

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C5
Community Colleges Catalyzing Computing and Cybersecurity in

C5 is an NSF-funded project to support the creation of a nationwide network of community colleges that have met national standards in cybersecurity education, producing more and better-prepared graduates for the workforce, and ultimately leading to a more secure nation. The project is hosted at Whatcom Community College in Bellingham, WA.

For more information, visit www.C5Colleges.org

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

MORNING CONCURRENT SESSIONS 2 (cont.)

TIME	DESCRIPTION	LOCATION
10:10am - 11:10am	FRIDAY MORNING CONCURRENT PRESENTATIONS 2B	
	<p>Research Collaboration between HCC and JHUISI: Lessons Learned Session ID: P2B-1 • Track/Format: Track 1/Panel Presentation Presenters: Diana Bartlett [Lead], Joseph Carrigan Description: This session will describe the lessons learned from a research collaboration between Hagerstown Community College and Johns Hopkins University Information Security Institute. Come learn about the evolution of a successful partnership. Learn how collaboration between a community college and a university is indeed possible. Challenges became opportunities. Implementation steps became best practices. Hear what students had to say about the result. Take this information away and apply it to your college. Students and researchers will thank you!</p>	Room 2728
	<p>Teaching Old Dogs New Tricks: Creating a Cybersecurity Program at the University of Hawaii Session ID: P2B-2 • Track/Format: Track 1/Paper Presenters: Claire Cuccio Description: The University of Hawaii is developing an online cybersecurity program from the curriculum of ten brick and mortar institutions within the university. The goal is to develop an online program so students from all the islands can earn a certificate or degree in cybersecurity and join the cybersecurity workforce. Gaps this study will address are the lack of cybersecurity certificates for current IT-related graduates and the lack of cybersecurity graduates to fill much needed positions in cybersecurity. This study proposes the curriculum for the new programs and also a strategy to partner with industry to attract adjunct professors needed to teach the cybersecurity courses at the appropriate level.</p>	Room 2732
<p>Developing Rigorous and Enhanced Academic Modules (DREAMs) for High School Students Session ID: P2B-3 • Track/Format: Track 1/Panel Presentation Presenters: Gregory Teets [Lead], Danis Heighton Description: This presentation will provide insight into the hands-on lab modules being developed by Clark State Community College. This development is supported by NSF Grant #1700566 - Developing Rigorous and Enhanced Academic Modules (DREAMs). The modules are designed for implementation in high-school level courses and can be used in college courses as well. These modules include ancillary teaching materials to assist teachers in any subject matter area, and any level of technical expertise, with ease of implementation. Attendees will be provided with an overview of the modules content, scope, and design. Attendees will be provided free access to the lab modules/ancillary teaching materials.</p>	Room 1005	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

MORNING CONCURRENT SESSIONS 2 (cont.)

TIME	DESCRIPTION	LOCATION
10:10am - 11:10am	FRIDAY MORNING CONCURRENT PRESENTATIONS 2B (cont.)	
	<p>Putting Job Fairs and Internships to Work for Students Session ID: P2B-4 • Track/Format: Track 1/Paper Presenters: Melanie Stover [Lead], Margaret Leary, Corrinne Sande Description: This session will provide strategies to schools interesting in expanding employment opportunities for cyber students. You will receive best practices and pitfalls to avoid with structuring job fairs, internships, and apprenticeship programs. Learn how to approach local employers to garner strong support for a job fair and how to collaborate with faculty and industry to best leverage the strengths of each. Address formats that work best, including virtual job fairs and roundtables, the best time to place students into opportunities, how to prepare students for the interviews, amnd more! Time will be allocated at the end of the presentation to capture “best practices” from other schools.</p>	Room 2611
	<p>CyberTech Girls: Engaging Middle & High School Girls in Hands-on Tech Activities Session ID: P2B-5 • Track/Format: Track 2/Paper Presenters: Tobi West Description: Coastline Community College hosts this annual hands-on event called CyberTech Girls in which high school & middle school girls have the opportunity to learn about cybersecurity & technology. The event brings together girls from local schools, industry professionals, & academic leaders to the college campus. At CyberTech Girls events, students have the opportunity to experience cybersecurity activities, speak to professionals about career interests, & develop an understanding of some of the cybersecurity disciplines. Activities include a crime scene with digital evidence collection from “dead bodies”, digital evidence examination, web page design with emphasis on personal cyber wellness topics, & desktop assembly.</p>	Room 2653
	<p>Cybersecurity in Action : A Holistic Approach to Cybersecurity Curriculum Session ID: P2B-6 • Track/Format: Track 3/Demonstration Presenters: Vickie McLain Description: Students enrolled in cybersecurity education graduate with an impressive skillset. However, when students go into an internship or employment, there is not a manual of soft skills for them to follow. Lake Superior College decided to incorporate all of these skills in a lab funded by NSA as part of the Cybersecurity Workforce Education Act. Students are assigned to six mini businesses complete with their own networks, policies, databases, websites and problems. Activities will include setting up the network, hardening the network, troubleshooting, writing policies, risk analysis and business continuity plans. After they get acclimated to their business, they will be attacked by sophomore hackers.</p>	Room 2755

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

MORNING CONCURRENT SESSIONS 2 (cont.)

TIME	DESCRIPTION	LOCATION
10:10am - 11:10am	FRIDAY MORNING CONCURRENT PRESENTATIONS 2B (cont.)	
	<p>Cybersecurity Apprenticeships: Innovative Solutions to Solving the Skills Gap Session ID: P2B-7 • Track/Format: Track 3/Panel presentation Presenters: Sue Buffington [Lead], Nathan Saline, Stephen Miller, Morgan Zantua Description: This panel presentation includes representatives from Central New Mexico Community College (CNM), Eastern New Mexico-Ruidoso Community College (ENMU) and the Department of Labor. CNM and ENMU, both CAE2Y Designated Institutions, will discuss a unique partnership developed to create a cybersecurity apprenticeship program that will benefit job seekers and companies across New Mexico. Utilizing funding from the Department of Labor, CNM developed the first registered apprenticeship program in cybersecurity in New Mexico. ENMU partnered with CNM to bring this program to their part of the State. Participants in this session will learn the value of registered apprenticeships, as well as how to set up their own cybersecurity apprenticeship program, including working with local employers and registering their program with the State Apprenticeship Office.</p>	Room 1252
	<p>Is There Really a Game at Chuck E. Cheese's That Cheats Innocent Little Children? Session ID: P2B-8 • Track/Format: Track 4/Panel Presentation Presenters: Douglas R. Spindler Description: Cybersecurity hacking project built by Novato High students makes interesting find with arcade game. Is there really an arcade game at Chuck E. Cheese's that cheats innocent little children? Students at Novato High school in California took a college of Marin class to learn about cybersecurity and computer hacking. What they learned was one of life's dirty lessons. Using science, critical thinking skills, and an Arduino they built a gadget which should have allowed them to win at a game of chance every time at a Chuck E. Cheese's arcade... but they weren't. In this session you learn about the cybersecurity cheating device they built, how it worked, and what the students found. What the students discovered was quite a surprise for the parents too who were bankrolling these visits to Chuck E. Cheese's arcade.</p>	Room 1266
11:20am - 12:15pm	<p>BIRDS OF A FEATHER ROUNDTABLE - JAZZ CAFE Join your colleagues to discuss the cybersecurity education issues this community has raised, share your insights, and listen and learn.</p>	Room 2057

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

MT. HOOD COMMUNITY COLLEGE

TIME	DESCRIPTION
LUNCH PLENARY	
Vista Dining Hall - Room 2000 & College Theatre - Room 2147 (12:30 - 2:30pm)	
12:30pm - 1:30pm	Lunch - Vista Dining Hall (Room 2000)
1:30pm - 2:30pm	<p>Keynote Address: Roy Zur, CEO, Cybint Solutions - College Theatre (Room 2147)</p>  <p><i>Known by companies, educational institutions and government agencies around the world for his insights and expertise in all things cyber, Roy Zur founded Cybint Solutions to meet the exploding global need for cyber education. He operates under the philosophy that everyone, regardless of profession, industry or position, must possess some level of cyber literacy to succeed in today's business world. This foundation shapes his work and Cybint's breadth of offerings for novice to expert cyber professionals.</i></p>









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DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

AFTERNOON CONCURRENT SESSIONS 3

TIME	DESCRIPTION	LOCATION
2:40pm - 5:40pm	FRIDAY AFTERNOON CONCURRENT WORKSHOPS 3	
	<p>How to Get Students Work Experience Before Entering the Workforce for Free! Session ID: W3-1 • Track/Format: Track 1/Workshop Presenters: Vincent Nestler [Lead], James Ashley, Alexander Hillock Description: This session will start with a short introduction to the NICE Challenge project (nice-challenge.com) a federally funded project that is free for academic institutions to use. The project focuses on creating real world hands-on scenarios, based on the tasks for Job Roles of the NICE framework. It will then introduce various ways the project can be used in current and future classes. This will be a hands-on workshop in which participants will get accounts, connect to the platform and work through one or more challenges. At the conclusion of the hands-on session there will be a discussion of how to use in your own classroom what you experienced here.</p>	Room 2610
	<p>CAE-2Y Application Process: Knowledge Unit Mapping and Program Criteria Session ID: W3-2 • Track/Format: Track 2/Workshop Presenters: Corrinne Sande 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.</p>	Room 1267
<p>Teach Industrial Control Systems (ICS) in Your Existing Labs! Session ID: W3-3 • Track/Format: Track 3/Workshop Presenters: Mike Masino Description: This session will include hands-on exercises using the Cybati lab manual and mock ICS environment. We will review labs developed by Cybati to teach the basics of security for industrial ICS/ IOT applications. We will use Kali Linux and custom Cybati Linux Virtual Machines/Raspberry Pi hardware to learn about surveying your attack surface physical-cyber-operational assessments, and penetration tests. Note: The goal of this workshop is to present a cost effective strategy for teaching ICS/IOT security in our current IT labs at the technical college level with a minimal investment in expensive hardware/software.</p>	Room 1271	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

AFTERNOON CONCURRENT SESSIONS 3 (cont.)

TIME	DESCRIPTION	LOCATION
2:40pm - 5:40pm	FRIDAY AFTERNOON CONCURRENT WORKSHOPS 3 (cont.)	
	<p>Secure Scripting with Linux Primer Session ID: W3-4 • Track/Format: Track 3/Workshop Presenters: Christian Servin Description: The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has developed and tested a variety of cybersecurity materials at community colleges across the nation. Participants of this workshop will take away modularized content for teaching and assessing Secure Scripting in Python in their introductory computing and cybersecurity courses. All C5 instructional and assessment materials are freely available from the project website and carry a Creative License for adoption and adaption to meet course needs. The instructional materials 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 jumpstart those colleges pursuing the NSA CAE2Y designation and other colleges developing cybersecurity certificate and degree programs.</p>	Room 1277
	<p>C5 Cyber Ethics and Society Session ID: W3-5 • Track/Format: Track 3/Workshop Presenters: Florence Appel Description: The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has developed and tested a variety of cybersecurity materials at community colleges across the nation. Participants of this workshop will take away modularized content for teaching and assessing Cyber Ethics and Society in their introductory computing and cybersecurity courses. All C5 instructional and assessment materials are freely available from the project website and carry a Creative License for adoption and adaption to meet course needs. The instructional materials 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 jumpstart those colleges pursuing the NSA CAE2Y designation.</p>	Room 2554



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DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

AFTERNOON CONCURRENT SESSIONS 3 (cont.)

TIME	DESCRIPTION	LOCATION
2:40pm - 3:40pm	FRIDAY AFTERNOON CONCURRENT PRESENTATIONS 3A	
	<p>The Importance of Building Essential Skills for Cybersecurity at the Beginning of a Curriculum Session ID: P3A-1 • Track/Format: Track 1/Paper Presenters: Kevin Cardwell Description: This session will review the things that are missing in many students who want to pursue a career in cyber security. Many programs focus on the Application Layer and do not discuss the importance of establishing a solid security foundation. This session will look at the three main components to build this foundation; TCP/IP, Unix/Linux and Virtualization. We will look at some simple but important protocol analysis techniques. These developed skills were designed to provide those students entering the fascinating world of cyber security a foundation prior to embarking on this journey. This will prepare the student for a job as a consultant or security professional.</p>	Room 1266
	<p>Developing Competency Based Cybersecurity Education through Agile Course Development Session ID: P3A-2 • Track/Format: Track 1/Paper Presenters: Jonathan Kamyck [Lead], Andrew Hurd Description: Southern New Hampshire University is producing a cutting-edge cybersecurity bachelor's degree that will prepare students to succeed in one of today's hottest job fields. Using Agile project management and a innovative design approach, SNHU has developed over forty individual competencies, woven into courses that align with the NSA/DHS Center for Academic Excellence in Cyber Defense curricular suggestions. This new competency-based approach reflects SNHU's commitment transform the lives of students by delivering authentic, professionally-relevant academic experiences to our learners.</p>	Room 2728
<p>Adoptable and Adaptable Cybersecurity Instructional Materials Session ID: P3A-3 • Track/Format: Track 1/Panel Presentation Presenters: Beth Hawthorne [Lead], Melissa Dark Description: C5 (Catalyzing Computing and Cybersecurity in Community Colleges), an NSF-funded project is aimed at increasing the quantity and quality of the cybersecurity workforce. C5 has two primary goals: Expand the number of community colleges across the country that meet national cybersecurity education standards (CAE2Y) and develop instructional materials to strengthen introductory computer science and cybersecurity courses. This panel focuses on the accomplishments and forthcoming attractions of goal two. C5 has developed, pilot tested, and disseminated seven cybersecurity instructional modules at community colleges and high schools across the nation.</p>	Room 2732	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

AFTERNOON CONCURRENT SESSIONS 3 (cont.)

TIME	DESCRIPTION	LOCATION
2:40pm - 3:40pm	FRIDAY AFTERNOON CONCURRENT PRESENTATIONS 3A (cont.)	
	<p>ABET Accreditation for Community College Cybersecurity Programs Session ID: P3A-4 • Track/Format: Track 2/Roundtable Discussion Presenters: Allen Parrish [Lead], Larry Jones, Rajendra Raj, Casey O'Brien, Beth Hawthorne Description: ABET is the leading accrediting agency for engineering, computing and technology programs in the United States. ABET has recently developed cybersecurity accreditation for four-year programs, and is seeking to expand this program to two-year colleges. This round table will consist of community college cybersecurity program representatives and representatives from ABET. This is an opportunity for community college programs to provide feedback to ABET as it seeks to extend cybersecurity accreditation to community colleges.</p>	Room 1005
	<p>Preparing for National Cybersecurity Career Awareness Week: Resources to Promote and Celebrate the 2018 NCCAW Campaign Session ID: P3A-5 • Track/Format: Track 2/Paper Presenters: Davina Pruitt-Mentle Description: National Cybersecurity Career Awareness Week (NCCAW) is a national celebration that focuses on increasing awareness about careers in cybersecurity. NCCAW offers leaders in business, government, education, and other critical partners a chance to express their support for the cybersecurity workforce. NCCAW also gives partners the opportunity to showcase their programs, facilities and resources in their community. Weekly events highlight the benefits of building a national cybersecurity workforce in enhancing America's security and economic prosperity. Attendees will learn about last year's inaugural event, what's in store for this year, and walk away with resources, examples and suggestions of how to participate and make a difference.</p>	Room 1001
<p>Building a Cybersecurity Program - Where Do I Begin? Session ID: P3A-6 • Track/Format: Track 3/Paper Presenters: Joe Roundy Description: There are reportedly over 200K "cybersecurity" jobs available in the US today, with 1.8 million projected out to 2022. There is no question the demand for technical workers in the Cybersecurity space is high. There are a multitude of Bachelor and Masters Cybersecurity programs, yet we hear many students and employers telling us that students with those degrees are not getting hired. Why is that? In addition to a shortage of properly trained workers, there is a shortage of capable instructors willing to deliver the technical content. The cost of technology is one of the many hurdles to developing and delivering a quality technical program, but It may not be as costly as you think. Open source tools are low or no cost, and "cloud" solutions are popping up seemingly every week.</p>	Room 2653	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

AFTERNOON CONCURRENT SESSIONS 3 (cont.)

TIME	DESCRIPTION	LOCATION
2:40pm - 3:40pm	<p>FRIDAY AFTERNOON CONCURRENT PRESENTATIONS 3A (cont.)</p> <p>The Time Is Now for College/Employer Partnerships for Secure Software Development Apprenticeships Session ID: P3A-7 • Track/Format: Track 3/Panel Presentation Presenters: Girish Seshagiri [Lead], Rodney Petersen, Carol Woody Description: An outstanding panel from Ishpi Information Technologies, Carnegie Mellon University/Software Engineering Institute, and the National Institute of Standards and Technology discusses a unique government/industry/academic partnership for dual model apprenticeships to address the cybersecurity skills shortage. Dual here means that in addition to time spent in classroom instruction, apprentices receive relevant practical training and experience at a partnering company, while receiving a salary as they gain work-related skills. Apprentices graduate with AAS Degree in Secure Software Development that meets the CMU/SEI guidelines at a community college along with a DoL Registered Apprenticeship credential aligned with NICE Cybersecurity Workforce Framework, and industry recognized certificates. Dual model apprenticeships provide employers with readily employable graduates with the skills to develop software which is secure from cyber attacks with a positive return on investment.</p>	Room 2755
	<p>How to Successfully Leverage Professional Associations Session ID: P3A-8 • Track/Format: Track 4/Paper Presenters: Anna Carlin Description: Professional associations strive to further a profession, such as cyber security. They usually facilitate entry into the profession, create and maintain standards, and represent the profession in discussions with other bodies such as legislative or regulatory bodies. ISACA, ISSA (Information Systems Security Association), ISC(2) and HTCIA (High Technology Crime Investigation Association) are widely recognized professional associations in the cyber security profession. Professional associations could enrich colleges and universities in curriculum development, student enrichment (student clubs, professional association dinner meetings, guest lecturers, and certifications), and ultimately employment. You will learn how to leverage professional associations to your advantage, whether you are a student, educator, industry professional, or employer.</p>	Room 1252
3:50pm - 4:50pm	<p>ICE CREAM ICE BREAKER (NETWORKING) - VISTA DINING HALL</p> <p>What better way to meet new colleagues than over a dish of sweets? Expand your personal network, and arrange your dinner companions for this evening!</p>	Room 2000

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

AFTERNOON CONCURRENT SESSIONS 3 (cont.)

TIME	DESCRIPTION	LOCATION
5:00pm - 6:00pm	<p>FRIDAY AFTERNOON CONCURRENT PRESENTATIONS 3B</p> <p>Many Hands Make Light Work - Combining Regional Resources to Make a Powerful Cybersecurity Program Session ID: P3B-1 • Track/Format: Track 1/Paper Presenters: Ron McFarland Description: The College of the Canyons (COC) is one of 114 community colleges in the California CC system. Getting cyber security off the ground that articulates from the community college to 4-year colleges or universities is a challenge. We are embarking on regionalization of coursework that will allow us to share syllabi, curriculum, and resources over an 8-college region (SCCRC). We will offer students the opportunity to achieve their goals for courses, certificates and degrees to other colleges. Additionally, to achieve regionalization of curriculum that can be shared offers the opportunity to reduce course development time, course/certificate/degree approval time. This study proposes methods for regionalization that will address the gaps in curriculum for cybersecurity and digital forensics, limited faculty trainers, and offers a strategy to partner with industry to offer training.</p>	Room 1001

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DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

AFTERNOON CONCURRENT SESSIONS 3 (cont.)

TIME	DESCRIPTION	LOCATION
5:00pm - 6:00pm	FRIDAY AFTERNOON CONCURRENT PRESENTATIONS 3B (cont.)	
	<p>Taking Your Cybersecurity Program to the Next Level Session ID: P3B-2 • Track/Format: Track 1/Paper Presenters: Joe Roundy Description: Employers want to see that students have applied the skills they've learned. How do you go about getting the applied learning experience that will help them get employed? Cyber competitions may be the easiest way to get students applying their skills. There are many to choose from. Start with Jeopardy style CTFs and work your way up. A Cybersecurity Lab will attract students, be useful for your Cybersecurity club for their meetings. Invite local user groups to use the space, including your students. Virtualization will help keep the costs under control and provide a safe sand box. Engage Computer Science faculty and students in Cyber competitions, and encourage the department to include secure coding in their teaching. Secure infrastructure will only go so far, when the application is vulnerable.</p>	Room 1266
	<p>Your Federal Partners in Community College Cybersecurity Education Session ID: P3B-3 • Track/Format: Track 1/Panel Presentation Presenters: Vera Zdravkovich [Lead], Corby Hovis (NSF), Rodney Petersen (NICE), Lorie Pfaffenstein (NSA), Latasha McCord (DHS) Description: Participants will have an opportunity to learn about Federal initiatives supporting cybersecurity education and workforce development, especially opportunities that should be of interest to community colleges. Representatives from the National Initiative for Cybersecurity Education (NICE), National Science Foundation (NSF), National Security Agency (NSA), and Department of Homeland Security (DHS) will provide an overview of program priorities, grant programs, workshops and conferences, CAE Regional Resource Centers, and other activities. There will be an opportunity for Q&A.</p>	Room 2728
<p>The Virginia Cyber Range: Providing Cloud-based Resources for Cybersecurity Education Session ID: P3B-4 • Track/Format: Track 2/Demonstration Presenters: Sandra Schiavo Description: The Virginia Cyber Range is a Commonwealth of Virginia initiative with a mission to enhance cybersecurity education in our high schools, community colleges and universities. The range provides free educational resources to Virginia educators including an extensive online courseware repository for educators and a cloud-hosted virtual environment for students. The Virginia Cyber Range can also host a competition environment to support capture-the-flag and other types of exercises. Hear our vision and how it supports educational initiatives such as earning CAE2Y designation and the NCWF.</p>	Room 1005	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

AFTERNOON CONCURRENT SESSIONS 3 (cont.)

TIME	DESCRIPTION	LOCATION
5:00pm - 6:00pm	FRIDAY AFTERNOON CONCURRENT PRESENTATIONS 3B (cont.)	
	<p>Are You or Your Students Interested in Careers within Cyber Intelligence? Session ID: P3B-5 • Track/Format: Track 3/Panel Presentation Presenters: John Sands [Lead], Moussa Ayyash, Beth Coglianese Description: This session will have panelists discuss opportunities in the cyber intelligence industry. Learn how your cyber security program can include content to enable your students to earn college credentials in cyber intelligence. Terrorists are inevitable in the world, but Moraine Valley Community College and Chicago State University are partnering to educate students to combat those threats. A three-year grant from the National Science Foundation (NSF) has allowed the two institutions to create a pathway for students to study cybersecurity and cyber intelligence.</p>	Room 3333
	<p>Developing a Cyber Internship Program in an Academic Environment Session ID: P3B-6 • Track/Format: Track 3/Panel Presentation Presenters: Carrie Leary [Lead], Jason Hird, Cailin Jones Description: To be fully prepared to be effective in the workplace, cybersecurity students must apply their knowledge and skills to the practice of cybersecurity. Building on research that supports the value of mentoring by college faculty and of internships as experiential learning activities, Anne Arundel Community College implemented an internship structure that gives students a deeper experience using cybersecurity technical solutions. Student interns, under the one-on-one guidance of faculty mentors, investigate a cybersecurity challenge and develop a hands-on scenario/lab to demonstrate the solution. This program is funded by a Cybersecurity Workforce Education Grant through the NSA. The presentation format is a panel consisting of a faculty mentor and student mentees. The panel will present information on the structure of the cyber intern program, how it was developed, expected outcomes, and follow-on plans.</p>	Room 2653
<p>Government Will Pay for Community College Cyber Student Scholarships! Session ID: P3B-7 • Track/Format: Track 4/Panel Presentation Presenters: Costis Toregas [Lead], Barbara Belon Description: Community colleges have been able to participate in the federal Scholarship for Service program for the last 2 years. The National CyberWatch Center has been asked to review this new effort and help build the capacity of community colleges to participate and provide meaningful pathways to their students towards government employment. This session will provide a summary of experiences from 15 universities and 25 community colleges and summarize results in a way that can help panel observers apply and participate in future years.</p>	Room 2755	

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

FRIDAY • AUGUST 3

EVENING ACTIVITIES

TIME	DESCRIPTION	LOCATION
6:15pm	Buses from Mt. Hood Community College to Marriott Hotel	
	Dinner on your own.	

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DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

SATURDAY • AUGUST 4

MT. HOOD COMMUNITY COLLEGE

TIME	DESCRIPTION
7:00am	Bus transportation from Marriott Hotel to Mt. Hood Community College (MHCC)
7:30am - 8:00am	Breakfast - Vista Dining Hall (Room 2000)
8:00am - Noon	Registration/Check-In at MHCC - Theatre Foyer
	MORNING PLENARY College Theatre - Room 2147 (8:00 - 8:45am)

8:00am - 8:45am

Keynote Address: Greg Prynne, Senior Director for Corporate Affairs, Cisco Systems



Specializing in Global Field Operations (GFO), **Greg Prynne** is responsible for the US, Canada, and Latin America Field Operations, as well as the global Technical Field Engagement team. Greg drives relationships with external strategic customers and partners to enhance geographical Corporate Social Responsibilities (CSR) strategies and field implementations for Cisco's CSR programs and initiatives in the Americas.

MORNING CONCURRENT SESSIONS 4

TIME	DESCRIPTION	LOCATION
9:00am - Noon	SATURDAY MORNING CONCURRENT WORKSHOPS 4	
	<p>EDURange: Hands-on Cybersecurity Exercises That Are Easy to Access Session ID: W4-1 • Track/Format: Track 1/Workshop Presenters: Richard Weiss Description: Incorporating cybersecurity into the curriculum is a topic of continuing interest. The goal of this workshop is to provide participants who may or may not have previous experience in cybersecurity with a framework and some of our scenarios that facilitate incorporating this topic into the curriculum. Building on previous workshops, this tutorial focuses on the design of hands-on exercises that are easy to access, running in the cloud. Taking on the role of player, participants will learn about security. Then, taking on the role of instructor, they will learn how to use these security exercises in the classroom, and how to create scenarios that they can use for their classes. Laptop required.</p>	Room 2610
	<p>CompTIA CySA Materials and Labs Session ID: W4-2 • Track/Format: Track 1/Workshop Presenters: John Sands [Lead], Mike Masino Description: The session will include review of CompTIA's Cybersecurity Security Analyst (CySA) Materials and Labs content, instructional materials, assessment instruments, and labs. The presenter will provide access to CompTIA's new labs and assessment instruments concerning Security Analysis.</p>	Room 3333

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

SATURDAY • AUGUST 4

MORNING CONCURRENT SESSIONS 4 (cont.)

TIME	DESCRIPTION	LOCATION
9:00am - Noon	SATURDAY MORNING CONCURRENT WORKSHOPS 4 (cont.)	
	<p>Blockchains, Bitcoin, and Cryptocurrencies: Quick Way to Become Rich? Or a Complete Scam? Session ID: W4-3 • Track/Format: Track 1/Workshop Presenters: Douglas R. Spindler Description: In this workshop, you will create your own cryptocurrency and learn how to dominate the world! Mine your cryptocurrency and make millions! Go on a spend spree with your e-currency and see what you can buy! Learn about blockchains and the story of Bitcoin. What's the future of cryptocurrencies, Bitcoin, e-currencies, and blockchains? Learn lab exercises you can use to teach your students about blockchains and cryptocurrencies.</p>	Room 2611
	<p>CAE-Cyber Defense Mentor and Reviewer Training Session ID: W4-4 • 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 CAE2Y 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.</p>	Room 1267
	<p>C5 Responsible Software Development Session ID: W4-5 • Track/Format: Track 3/Workshop Presenters: Debbie Wolf Description: The NSF Catalyzing Computing and Cybersecurity in Community Colleges (C5) Project has developed and tested a variety of cybersecurity materials at community colleges across the nation. Participants of this workshop will take away modularized content for teaching and assessing Responsible Software Development in their introductory computing and cybersecurity courses. All C5 instructional and assessment materials are freely available from the project website and carry a Creative License for adoption and adaption to meet course needs. The instructional materials 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 jumpstart those colleges pursuing the NSA CAE2Y designation and other colleges developing cybersecurity certificate and degree programs.</p>	Room 1277

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

SATURDAY • AUGUST 4

MORNING CONCURRENT SESSIONS 4 (cont.)

TIME	DESCRIPTION	LOCATION
9:00am - Noon	SATURDAY MORNING CONCURRENT WORKSHOPS 4 (cont.)	
	<p>How Do Automated Defenses Potentially Change INFOSEC Skill Needs Session ID: W4-6 • Track/Format: Track 3/Workshop Presenters: Jeanette Smith-Perrone [Lead], Jeremy Sims Description: What does it mean today to defend against a DDoS attack? How are DDoS attack vectors and attacker motivations changing? Workshop demonstration with a DDoS defense system that learns from the unique attack pattern and automatically implements the defense in under 10 seconds. Discussion on how this type of automated defensive system changes how today's defenses are implemented by companies and potential changes in INFOSEC skill needs.</p>	Room 2554
9:00am - 10:00am	SATURDAY MORNING CONCURRENT PRESENTATIONS 4A	
	<p>Utilizing Artificial Intelligence to Identify and Mitigate Security Vulnerabilities in Workplaces Session ID: P4A-1 • Track/Format: Track 1/Paper Presenters: Cemal Tepe Description: You will learn how and where you can utilize Artificial Intelligence to identify and mitigate security vulnerabilities in workplaces.</p>	Room 2732
	<p>0-60: How to Grow your Cybersecurity Program from Awarding Zero Degrees to Awarding Sixty Degrees and Certificates in Three Years Session ID: P4A-2 • Track/Format: Track 1/Paper Presenters: Garrett Whelan Description: Are you starting or building a cyber security program and you don't know where to begin? This presentation is for you! This session will cover curriculum, recruitment, student success, job placement, and the internal and external forces you need to manage. You will learn how to design curriculum that meets your local needs and how to get it through your internal and state processes. Degree design and course offering patterns can multiply student success. Needs of local businesses and government can be used to improve job placement and more! This information will be based on the experience of Long Beach City College where the Computer Security and Networking degree had given out zero awards for years and now gives out over sixty degrees and certificates annually.</p>	Room 1252

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

SATURDAY • AUGUST 4

MORNING CONCURRENT SESSIONS 4 (cont.)

TIME	DESCRIPTION	LOCATION
9:00am - 10:00am	SATURDAY MORNING CONCURRENT PRESENTATIONS 4A (cont.)	
	<p>Guaranteed Cybersecurity Starts With Us Session ID: P4A-3 • Track/Format: Track 1/Paper Presenters: Themba Ngwenya [Lead], Coleman McKoy, Roxanne Kemp Description: <i>The goal of this session is to step back and make participants think about where we currently are as a society in how we are understanding and assessing the impact of cyber threats in our daily lives and how we are dealing with them, if at all. Are we looking elsewhere or at someone else to take up the challenges on our behalf? Do we have to be told how to participate and interact safely in this age of AI, driver-less vehicles, connected homes and smart wearables or should we already be conscious due to exposure to computers and computing technology over the years, to the fundamental requirements of being in the Cyber age? Who should be blamed if we as a society are found not in compliance to the recommended security standards? This paper proposes that any solution will have to begin with us the individuals understanding what is at stake and taking our part as individual and collective contributors to create or implement solutions.</i></p>	Room 1266
	<p>Cybersecurity Education: Tools and Resources Session ID: P4A-4 • Track/Format: Track 2/Roundtable Discussion Presenters: Latasha McCord Description: <i>To close the workforce gap, it is critical for all communities - industry organizations, federal agencies, and academic institutions - to work together to coordinate cybersecurity awareness, education, training, and workforce development efforts. DHS is leading efforts through its Cybersecurity Education and Awareness Branch (CE&A) by offering several resources to support cybersecurity education, from providing cybersecurity course materials to school teachers; designating elite cybersecurity degree programs as Centers of Academic Excellence; providing scholarships for education, and building a public-facing training catalog of cybersecurity courses at institutions across the country. Learn about cybersecurity tools and resources available to educators that DHS CE&A has to offer your students that are intended in part to standardize the field of cybersecurity and ultimately close the workforce gap.</i></p>	Room 2728

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

SATURDAY • AUGUST 4

MORNING CONCURRENT SESSIONS 4 (cont.)

TIME	DESCRIPTION	LOCATION
9:00am - 10:00am	<p>SATURDAY MORNING CONCURRENT PRESENTATIONS 4A (cont.)</p> <p>ICMCP - Cultivating a Future Diverse Cybersecurity Talent Pipeline Session ID: P4A-5 • Track/Format: Track 3/Paper Presenters: David Elcock [Lead], William Butler Description: International Consortium of Minority Cybersecurity Professionals (ICMCP) is a national 501(c)(3) Public Charity Non-Profit, whose goal is to “Bridge the Great Cybersecurity Divide”, and in so doing “to build a pipeline of diverse cybersecurity practitioners. ICMCP focuses on ensuring that underserved populations gain access to cybersecurity education and reach the level of competency and proficiency they individually seek to pursue. ICMCP’s approach to tackling this “Divide” centers on offering academic scholarships, professional development, mentor programs, and job placement opportunities intended to attract more women and students of color into the rapidly exploding cybersecurity field. Attendees will learn how ICMCP supports both educational & commercial partners to address real employment requirements. Attendees will come away with a detailed understanding of what employers really want and need and how ICMCP and its alliances and resources help Community Colleges & Industry to collaborate to create meaningful employment opportunities.</p>	Room 1005
	<p>Learn How the WASTC Collaborative Supports ICT Currency, Innovation, and Best Practices at Scale Session ID: P4A-6 • Track/Format: Track 3/Paper Presenters: Richard Grotegut Description: Western Academy Support and Training Center (WASTC) is a public/private partnership between Cisco, their industry partners, Diablo Valley College and the Bay Area Region Deputy Sector Navigator (DSN). We provide events, conferences, training and support for 270 Cisco Academies and other public institutions that provide ICT education. Participants will be able to describe how this public/private partnership supports ICT education in the state, describe opportunities that they will be able to participate in, and apply best practices to other industry sectors. With help from our partners CSSIA, CWW and the CTC, we have been helping thousands of ICT educators, in our region, refresh their skills on a continual basis. With our annual Winter ICT Educators’ Conference and summer Faculty Development Weeks (FDWs), we have endeavored to keep ICT educators well informed and provide them with the relevant professional development training that they need.</p>	Room 1001

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

SATURDAY • AUGUST 4

MORNING CONCURRENT SESSIONS 4 (cont.)

TIME	DESCRIPTION	LOCATION
9:00am - 10:00am	<p>SATURDAY MORNING CONCURRENT PRESENTATIONS 4A (cont.)</p> <p>More Than a Princess...a Cyber Warrior Princess! Session ID: P4A-7 • Track/Format: Track 4/Paper Presenters: Terri Johnson Description: This session will expand on work initially begun by Becca Onuskanich of Dayton, OH. She began a series of after-school sessions for middle school girls in Dayton in 2014. In Colorado this was expanded to a one-week half-day summer camp, then integrated into curriculum at a pilot middle school, and most recently a two-week half-day summer camp that had a beginner and an intermediate component. Student volunteers have assisted in setting up and running these programs, and with the need for more cyber skills in the workforce (and in particular female representation), introducing girls at an early age in an environment that feels safe can lead to a better pathway for our future workforce. The session will include the presentation of Becca's LMS, and a hands-on demo of our final activity - a mini Capture the Flag competition!</p>	Room 1271

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DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

SATURDAY • AUGUST 4

MORNING CONCURRENT SESSIONS 4 (cont.)

TIME	DESCRIPTION	LOCATION
10:10am - 11:10am	<p>SATURDAY MORNING CONCURRENT PRESENTATIONS 4B</p> <p>How to Structure an Easy to Maintain 24/7 Online Virtual Lab Session ID: P4B-1 • Track/Format: Track 1/Demonstration Presenters: Glenn S. Dardick Description: The Embry-Riddle Aeronautical Cybersecurity Lab used for its Daytona Beach and World-Wide Campuses has built upon a tried-and-true Virtualization Infrastructure. The infrastructure provides Cybersecurity and Cyber Forensics exercises for its students on a 24/7 online all-the-time environment accessible in the classroom, online from anywhere from within the campus and online from anywhere in the world. The system has had a major impact on student engagement - and can be done at a fraction of the cost of existing solutions. Classes can be provisioned in batches or by students utilizing various instructor configured environments consisting of one or more subnets each containing one or more operating environments each containing one or more Virtual Machines.</p>	Room 2653
	<p>Packaged Certification Exam Content - Open Resource for Community College Students Session ID: P4B-2 • Track/Format: Track 1/Audience-participation Exercise Presenters: Steve Linthicum [Lead], Tobi West Description: This session provides both an introduction to CompTIA's IT Fundamentals certification as well as faculty access to "free" learning content created by community college faculty members working as development teams utilizing "Strong Workforce" grant funding from the California Community College Chancellor's Office. Recognizing the importance of pathways into cybersecurity programs available at community colleges, this project focuses on the development of no-cost learning content that includes a supplement to the existing e-textbook currently provided by CompTIA, course labs, sample chapter quizzes, and updated learning resources for the new FC0-U61 exam. This course will serve a foundation role for students with its focus on IT Fundamentals certification, viewed by CompTIA as the first in its line of core certifications in its recommended "Cybersecurity Career Pathway."</p>	Room 2755
	<p>Advisory Board & Partnerships and How They Help Grow Your Program Session ID: P4B-3 • Track/Format: Track 1/Panel Presentation Presenters: Chris Rondeau [Lead], Megan Martin Description: In this session we will be looking at lessons learned in building our partnerships for both the advisory board and internships. Your program must have strong partnerships to truly grow in a manner that will help train the workforce of tomorrow while meeting the needs of industry.</p>	Room 1001

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

SATURDAY • AUGUST 4

MORNING CONCURRENT SESSIONS 4 (cont.)

TIME	DESCRIPTION	LOCATION
10:10am - 11:10am	SATURDAY MORNING CONCURRENT PRESENTATIONS 4B (cont.)	
	<p>Teaching Cybersecurity Students to Apply Regression Analysis to Predict Losses from Security Incidents Session ID: P4B-4 • Track/Format: Track 2/Paper Presenters: Penn Wu Description: Learn how to teach students to apply regression analysis, a sophisticated statistics model, to predict losses from security incidents. The presenter will describe how to guide students. The presenter will also describe how to develop the instructional materials, conduct a three-hour long lecture, design the hands-on learning activities, and incorporate this topical area with the existing cybersecurity curriculum. Sample handout and lecture notes will be available for interested audiences.</p>	Room 1266
	<p>Transformative Mastery Learning: An Open-Source Community for Raising Capability Maturity Using CBE Session ID: P4B-5 • Track/Format: Track 3/Roundtable Discussion Presenters: David H. Tobey [Lead], Casey O'Brien Description: This session will provide insight into an ongoing curriculum development effort - the first known to produce an adaptive, performance-based, psychometrically valid, formative curriculum design aligned with the NSA/DHS CAE Knowledge Units, NCWF Work Roles & KSAs, and industry competency & capability maturity models. The open source process used, enabled rapid deployment of adaptive curriculum that raises learner capability maturity in foundational cybersecurity concepts, principles, & practices. You will learn how formative assessments, using adapted concept inventories, provide valuable pedagogical resources to cybersecurity instructors to raise learner competency levels towards mastery in each of the foundational course domains. You will also see how competency profiles produced for each learner will assist industry recruiters seeking to match talent requirements with candidate capabilities & will facilitate articulation agreements between 2-yr and 4-yr CAE institutions.</p>	Room 1271

DAILY SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT

SATURDAY • AUGUST 4

MORNING CONCURRENT SESSIONS 4 (cont.)

TIME	DESCRIPTION	LOCATION
10:10am - 11:10am	<p>SATURDAY MORNING CONCURRENT PRESENTATIONS 4B (cont.)</p> <p>From Ad Hoc to Infrastructure: Transforming a Cybersecurity Program Session ID: P4B-6 • Track/Format: Track 3/Panel Presentation Presenters: Denise Dragos [Lead], Ying Liu, Joan E. DeBello, Anish Bachu 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. This past year the University made a multimillion dollar investment and built out a state-of-the-art Cyber Security, Homeland Security, and Computer Science lab. The panel will discuss the cyber security curriculum and integration of the new facilities into the program.</p>	Room 2732
	<p>Entering IT in Middle Age ("I'm Not Dead Yet!") Session ID: P4B-7 • Track/Format: Track 4/Paper Presenters: Erik Jorgensen Description: This session will be about an older student having dreams of getting into information technology, specifically in cyber security, without a technical background. This session will briefly look at the past professional career and education in a non-technical area (in this case, education) and how there were many things done which did prepare the student for career transition. This session will touch on areas of the worries of being an older student with lack of technical skills on the resume other than what was learned at college. This session will then transition into what the student did to learn on their own, such as trying and not succeeding, and still trying and still not succeeding, to learn Python. Expanding on the trying aspect, the presenter will also look at joining the cyber security team and just trying to do stuff and not being afraid to fail...because eventually there will be success. Success is current employment. There will be Monty Python references.</p>	Room 1005
11:20am - Noon	<p>STUDENT PANEL'S PERCEPTIONS OF 3CS Listen to students describe their experience at 3CS, which for some of these panelists may have been their first exposure to an academic conference. Let's learn from them how to improve the 3CS experience for students next year.</p>	Room 1005
Noon	CLOSING OF SUMMIT	
12:15pm	Buses from Mt. Hood Community College to Marriott Hotel	

TOUR INFORMATION

2018 COMMUNITY COLLEGE CYBER SUMMIT

- **Tours are open to 3CS attendees as well as their families and travel companions.**
- All tours depart from Mt. Hood Community College at 1:00 pm. If we have people coming from the Marriott Hotel, we will run a bus from the hotel to MHCC, leaving the hotel at 12:15 pm. At the end of the tours, all buses will return to the Marriott Hotel via MHCC, so you may get off the bus at either location. The ending time for each tour is an estimate.
- Minimum number of guests to run each tour: 30; maximum: 50.
- Use the Edu+ mobile app to link to a Jotform to select your tour and to link further to PayPal to pay for the tour (you do not need a PayPal account to pay by credit card).
- Registration for your selected tour and payment must be completed by 6pm Thursday August 2. You may register for a tour and pay by credit card at the 3CS Registration/Check-in Desk.
- The tours that are running and not-running will be announced during the Friday lunchtime plenary.

SATURDAY • AUGUST 4

AFTERNOON ACTIVITIES (optional add-ons)

TIME	DESCRIPTION
12:15pm	Buses from Marriott Hotel to Mt. Hood Community College (if needed to accommodate guests of 3CS attendees who are going on a tour)
1:00pm	All tour buses depart MHCC

TOUR DESCRIPTIONS:

Bonneville Lock & Dam

www.nwp.usace.army.mil/bonneville

Learn the Bonneville Dam history, salmon lifecycle and how we generate electricity! Bonneville Lock and Dam is located 145 river miles from the mouth of the Columbia River and about 40 miles east of Portland in the heart of the Columbia River Gorge. Bonneville Lock & Dam provides opportunities to connect with nature and create unforgettable memories.

Time: 1:00pm – 6:30pm / Cost - \$100 / Box Lunch will be served

Mt. St. Helens Johnston Ridge Observatory

www.mountsthelens.com

Mount St. Helens, located in southwestern Washington about 50 miles northeast of Portland, is one of several lofty volcanic peaks that dominate the Cascade Range of the Pacific Northwest. The Cascade Range extends from Mount Garibaldi in British Columbia, Canada, to Lassen Peak in northern California. Geologists call Mount St. Helens a composite volcano (or stratovolcano), a term for steep-sided, often symmetrical cones constructed of alternating layers of lava flows, ash, and other volcanic debris. Composite volcanoes tend to erupt explosively and pose considerable danger to nearby life and property.

Time: 1:00pm – 6:30pm / Cost - \$100 / Box Lunch will be served

TOUR INFORMATION

2018 COMMUNITY COLLEGE CYBER SUMMIT

SATURDAY • AUGUST 4

AFTERNOON ACTIVITIES (optional add-ons) (cont.)

TOUR DESCRIPTIONS:

Mount Hood

www.mthood.info

Mount Hood, called Wy'east by the Multnomah tribe, is a potentially active stratovolcano in the Cascade Volcanic Arc of northern Oregon. It was formed by a subduction zone on the Pacific coast. Located about 50 miles east-southeast of Portland, Mt. Hood is Oregon's highest mountain

Time: 1:00pm – 6:00pm / Cost - \$40 / Box Lunch will be served

Pete's Mountain Vineyard & Winery

www.petesmtnwinery.com

In addition to the tour of Pete's Vineyard & Winery, enjoy breathtaking views of Mt. Hood and Willamette Valley with Pete's Mountain wines.

Time: 1:00pm – 4:00pm / Cost - \$55 / Lunch will be served by the local chefs



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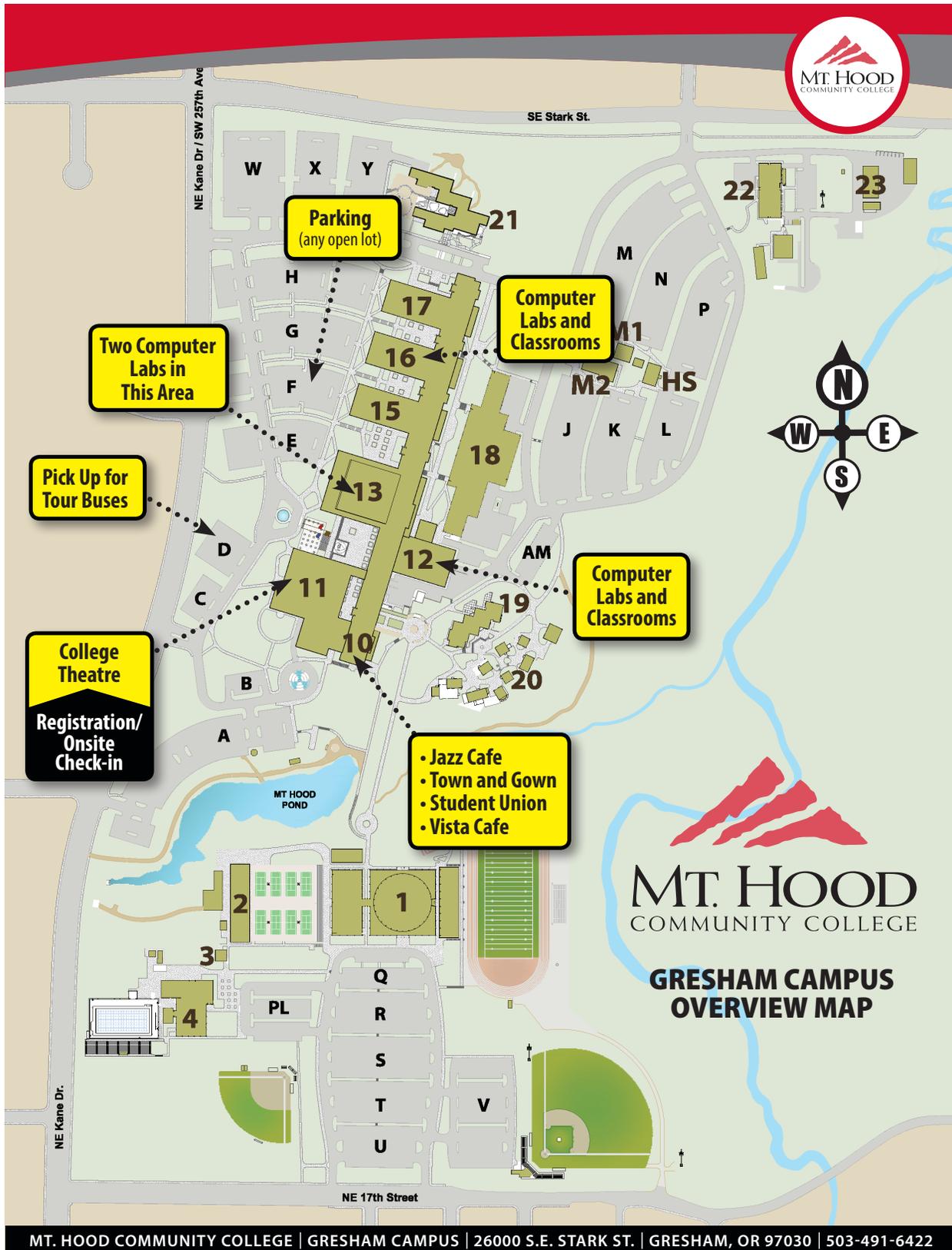
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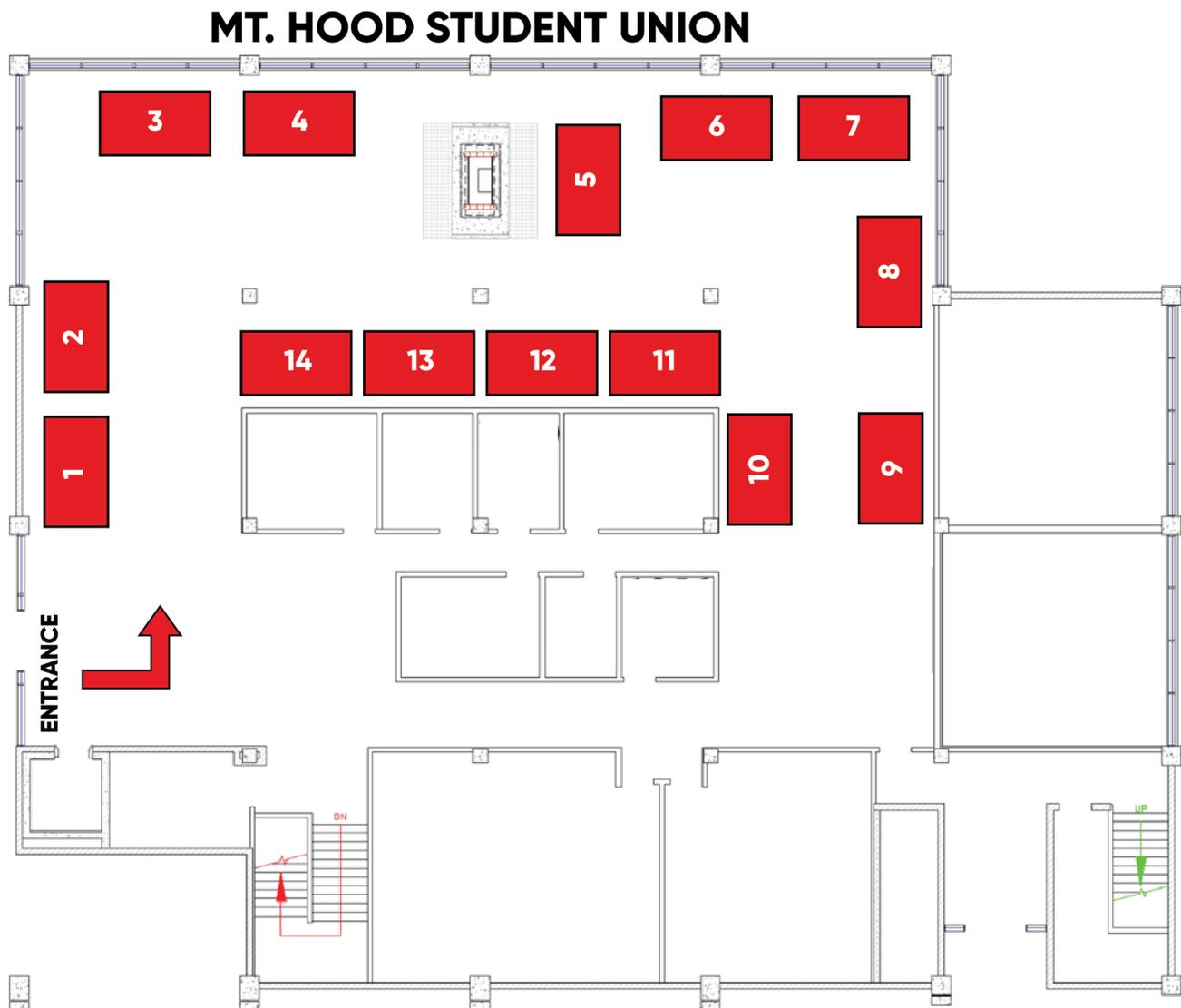
MAPS

MT. HOOD COMMUNITY COLLEGE CAMPUS



MAPS

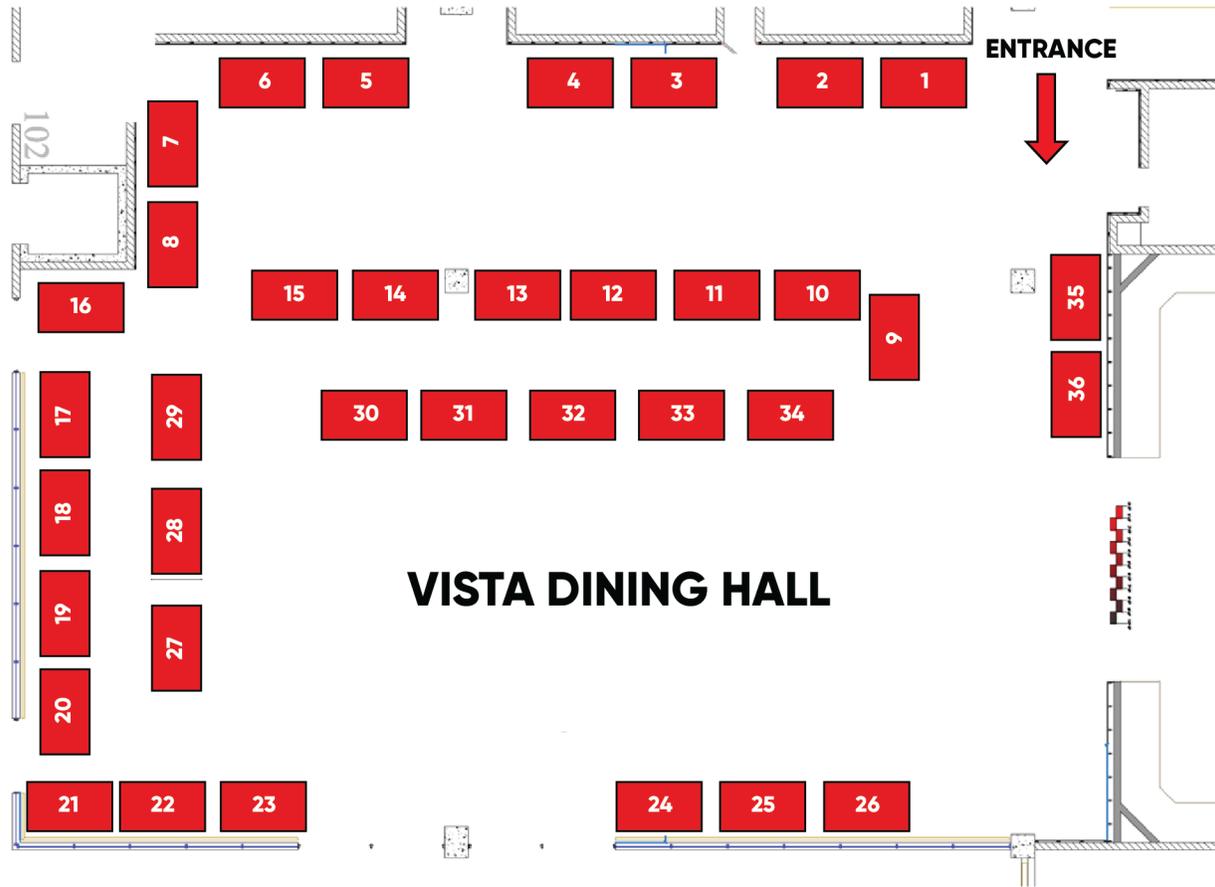
PRE-SUMMIT JOB FAIR EMPLOYER BOOTHS



1	PaloAlto Networks Academy	9	Portland Community College
2	ISC2	10	Oregon State University
3	Baypath University	11	McAfee
4	EC Council	12	IBM
5	Drexel	13	Central Intelligence Agency
6	Department of Labor	14	EnergySec
7	NICE		
8	Capital College		

MAPS

SPONSOR/PRODUCER EXHIBIT BOOTHS



VISTA DINING HALL

1	EC-Council	19	ISSA
2		20	Pearson
3	CompTIA	21	Excelsior
4	IBM	22	NICE
5	ISC2	23	CSSIA
6	EnergySec	24	Cybint
7	Oregon Tech Portland – Metro Campus	25	CyberWatch West
8	ACM CCECC	26	C5
9	Palo Alto Networks Academy	27	Middle State Georgia University
10		28	CSUSB
11	Baypath University	29	Marcraft
12		30	Cyberhub
13	Kaplan	31	Cengage
14	Jones and Bartlett	32	Secure Decisions
15	Walden University	33	ICMCP
16	SNHU	34	American Public University
17	ABET	35	National CyberWatch Center
18	Capitol College	36	InfoSec

BUS SCHEDULE

2018 COMMUNITY COLLEGE CYBER SUMMIT (3CS)

PICKUP AND DROP-OFF LOCATIONS

Portland Marriott Downtown Waterfront
1401 SW Naito Parkway, Portland, OR

Clay Street, between Naito Pkwy & 1st Street

Mt. Hood Community College (MHCC)
26000 SE Stark St, Gresham, OR

Parking Lot D

THURSDAY • AUGUST 2

7:30am	Marriott Hotel to MHCC for both Job Fair and pre-Summit meetings at Mt. Hood Community College
Noon	Marriott Hotel to MHCC for both 3CS Summit and National Cyber League (NCL) Showcase and Workshop
6:15pm	MHCC to Marriott Hotel for Sponsor Reception
8:45pm	Marriott Hotel to MHCC for reception attendees who parked at MHCC
9:30pm	Marriott Hotel to MHCC for reception attendees who parked at MHCC

FRIDAY • AUGUST 3

7:00am	Marriott Hotel to MHCC for 3CS Summit
6:15pm	MHCC to Marriott Hotel

SATURDAY • AUGUST 4

7:00am	Marriott Hotel to MHCC for 3CS Summit
12:15pm	MHCC to Marriott Hotel for those not on a tour
12:15pm	Marriott Hotel to MHCC for family members joining a tour

POST SUMMIT TOUR BUS TIMES SATURDAY • AUGUST 4

1:00pm	Buses from MHCC to: <ul style="list-style-type: none"> • Bonneville Lock & Dam (tour returns ~6:30 pm) • Mt. St. Helens Johnston Ridge Observatory and Visitor Center (tour returns ~6:30 pm) • Mount Hood (tour returns ~6 pm) • Pete's Mountain Vineyard & Winery (tour returns ~4pm)
At the end of each tour, the bus will return to MHCC and the Marriott Hotel; guests may exit the bus at either location.	



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QUICK LOCATOR

2018 COMMUNITY COLLEGE CYBER SUMMIT

SESSION ID	LOCATION	PRESENTER	SESSION TITLE (SHORTEND)
THURSDAY PRE-CONFERENCE WORKSHOP • 9:00AM - NOON			
Pre-1	2610	Leary	Threats and Countermeasures
THURSDAY PRE-CONFERENCE PRESENTATION • 9:00AM - 11:00AM			
Pre-2	1267	O'Brien	NCC Executive Briefing
THURSDAY PRE-CONFERENCE PRESENTATION • 12:30PM - 12:50PM			
Pre-3	2147	Spear	Navigating 3CS for 3CS Newbies
THURSDAY AFTERNOON WORKSHOPS 1 • 2:30PM - 5:30PM			
W1-1	2057	Manson	National Cyber League (NCL) and Capture the Flag (CTF)
W1-2	3333	Shields	Building Local Virtual Environments for Ethical Hack
W1-3	1271	Bishop	Securing Data from Risk
W1-4	1267	Smith	Reverse Engineering Cybersecurity Professionals
THURSDAY AFTERNOON PRESENTATIONS 1A • 2:30PM - 3:30PM			
P1A-1	2653	O'Brien	Model Cybersecurity Degree & Certificate Programs
P1A-2	2610	Daughtrey	Case Studies from Current Events: Finding Rip
P1A-3	1001	Hawthorne	Global Cybersecurity Curricular Guidance with Comm
P1A-4	1277	Bencic	Design a Safe and Cost-Effective Cyber Lab/Classroom
P1A-5	1266	Taylor	FREE Cybersecurity Curriculum! Available through
P1A-6	2732	Shih	Infuse Team-Work Competencies in Cybersecurity
P1A-7	1005	Moussavi	Embedding Security into an iCREAT Robotics Course
P1A-8	2554	Wesley	Strengthen Your Cyber Skills with Breakout!
THURSDAY AFTERNOON PRESENTATIONS 1B • 4:00PM - 5:00PM			
P1B-1	1001	Spindler	Excite Students about Your College's Cybersecurity
P1B-2	2653	Hulbert	We Don't Just Run You through the Motions: Our Lab
P1B-3	2755	Israel-Davis	Unsafe at Any Speed: Seatbelts for the Cyberworld
P1B-4	1252	McFarland	Virtualize Your Cybersecurity Labs to Offer Students
P1B-5	1266	Tobey	Launch of the Cybersecurity Skills Journal
P1B-6	2728	Alvarez	Use Stackable Credentials to Validate Hand's-On
P1B-7	2732	Bhattacharya	Cybersecurity4All - Teaching Cybersecurity across
P1B-8	1005	Carlin	Cyber Up! Your Resume - Classes Alone Are Not
THURSDAY AFTERNOON PRESENTATIONS 1C • 5:10PM - 6:10PM			
P1C-1	2610	O'Brien	National CyberWatch Center's Complete Cloud-Based
P1C-2	1001	Pigg	Puzzle-Based Learning Approach to Teaching Cyberse
P1C-3	1277	Qaissaunee	Visualizations in Networking and Cybersecurity to
P1C-4	2755	Sande	CAE-Cyber Defense Candidate Program
P1C-5	1005	Hawthorne	A Model Cyber Forensics Associate Degree Program
P1C-6	1266	Woods	CA-Cyberhub & ITTP Cybersecurity Pathway
P1C-7	2728	Brooks	Avoiding Armageddon
P1C-8	2732	Hinojosa	Learn about the National Cybersecurity Student
FRIDAY MORNING WORKSHOPS 2 • 9:00AM - NOON			
W2-1	1267	Israel-Davis	Unsafe at Any Speed: Seatbelts and Cybersecurity
W2-2	3333	Kemp	Applied Cryptography
W2-3	1271	Kurt Peker	Jumpstart Teaching Cybersecurity Principles
W2-4	1277	Butler	Integrating Analytics into Articulated Cybersecurity
W2-5	2554	Masino	Scripting for Cybersecurity Specialists
FRIDAY MORNING PRESENTATIONS 2A • 9:00AM - 10:00AM			
P2A-1	2732	Shields	Get-Them-Young! How to Offer Dual-Credit Courses
P2A-2	2610	Trevethan	Cybersecurity Academy Enables Faculty to Protect
P2A-3	2755	Smallwood	Success In the Tech Economy
P2A-4	1001	Sande	CAE-Cyber Defense Resource Centers
P2A-5	2600	Heller	Reach to Teach: Online Prep for Adjunct Faculty
P2A-6	2611	Alvarez	Transform Your Classes with the EC-Council STORM
P2A-7	1266	Black	New Frontiers in Creating CyberSecurity/CyberIntel
P2A-8	1005	Hinojosa	Personal Brand Development - Marketing Yourself On

QUICK LOCATOR

2018 COMMUNITY COLLEGE CYBER SUMMIT

SESSION ID	LOCATION	PRESENTER	SESSION TITLE (SHORTEND)
FRIDAY MORNING PRESENTATIONS 2B • 10:10AM - 11:10AM			
P2B-1	2728	Bartlett	Research Collaboration between HCC and JHUISI
P2B-2	2732	Cuccio	Teaching Old Dogs New Tricks: Creating a Cybersecu
P2B-3	1005	Teets	Developing Rigorous and Enhanced Academic Modules
P2B-4	1001	Stover	Putting Job Fairs and Internships to Work for Stud
P2B-5	2653	West	CyberTech Girls - Engaging Middle School and High
P2B-6	2755	McLain	Cybersecurity in Action : A Holistic Approach to
P2B-7	1252	Buffington	Cybersecurity Apprenticeships - An Innovative Solu
P2B-8	1266	Spindler	Is There Really an Arcade Game at Chuck E. Cheese
FRIDAY MORNING WORKSHOPS 3 • 2:40PM - 5:40PM			
W3-1	2610	Nestler	How to Get Students Workforce Experience before
W3-2	1267	Sande	CAE-2Y Application Process: Knowledge Unit Mapping
W3-3	1271	Masino	Teach Industrial Control Systems (ICS) in Your
W3-4	1277	Servin	Secure Scripting with Linux Primer
W3-5	2554	Appel	Cyber Ethics and Society
FRIDAY AFTERNOON PRESENTATIONS 3A • 2:40PM - 3:40PM			
P3A-1	1266	Cardwell	The Importance of Building Essential Skills for
P3A-2	2728	Kamyck	Developing Competency Based Cybersecurity Education
P3A-3	2732	Hawthorne	Adoptable and Adaptable Cybersecurity Instructional
P3A-4	1005	Parrish	ABET Accreditation for Community College
P3A-5	1001	Pruitt-Mentle	Preparing for National Cybersecurity Career Awareness
P3A-6	2653	Roundy	Building a Cybersecurity Program - Where Do I Begin
P3A-7	2755	Seshagiri	The Time Is Now for College/Employer Partnerships
P3A-8	1252	Carlin	How to Successfully Leverage Professional Associations
FRIDAY AFTERNOON PRESENTATIONS 3B • 5:00PM - 6:00PM			
P3B-1	1001	McFarland	Many Hands Make Light Work - Combining Regional
P3B-2	1266	Roundy	Taking Your Cybersecurity Program to the Next
P3B-3	2728	Zdravkovich	Your Federal Partners in Community College
P3B-4	1005	Schiavo	The Virginia Cyber Range: Providing Cloud-based
P3B-5	3333	Sands	Are You or Your Students Interested in Careers in
P3B-6	2653	Leary	Developing a Cyber Internship Program within an
P3B-7	2755	Toregas	Government Will Pay for Community College Cyber
SATURDAY MORNING WORKSHOPS 4 • 9:00AM - NOON			
W4-1	2610	Weiss	EDURange: Hands-on Cybersecurity Exercises That
W4-2	3333	Sands	CompTIA Cybersecurity Analyst (CySA) Materials and
W4-3	2611	Spindler	Blockchains, Bitcoin, and Cryptocurrencies: Quick
W4-4	1267	Sande	CAE-Cyber Defense Mentor and Reviewer Training
W4-5	1277	Wolf	Responsible Software Development
W4-6	2554	Smith-Perrone	How Do Automated Defenses Potentially Change INFOS
SATURDAY MORNING PRESENTATIONS 4A • 9:00AM - 10:00AM			
P4A-1	2732	Tepe	Utilizing Artificial Intelligence to Identify and
P4A-2	1252	Whelan	0-to-60: How to Grow Your Cybersecurity Program
P4A-3	1266	Ngwenya	Guaranteed Cybersecurity Starts with Us
P4A-4	2728	McCord	Cybersecurity Education: Tools and Resources
P4A-5	1005	Elcock	ICMCP - Cultivating a Future Diverse Cybersecurity
P4A-6	1001	Grotegut	Learn How the WASTC Collaborative Supports ICT
P4A-7	1271	Johnson	More Than a Princess...a Cyber Warrior Princess!
SATURDAY MORNING PRESENTATIONS 4B • 10:10AM - 11:10AM			
P4B-1	2653	Dardick	How to Structure an Easy-to-Maintain Best-in-Class
P4B-2	2755	Linthicum	Packaged Certification Exam Content - an Open
P4B-3	1001	Rondeau	Advisory Board & Partnerships and How They Help
P4B-4	1266	Wu	Teaching Cybersecurity Students to Apply Regressio
P4B-5	1271	Tobey, Sr.	Transformative Mastery Learning: An Open-Source
P4B-6	2732	Dragos	From Ad Hoc to Infrastructure: Transforming a Cybe
P4B-7	1005	Jorgensen	Entering IT in Middle Age ("I'm Not Dead Yet!")



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SAVE THE DATE 3CS 2019!

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JULY 31 - AUGUST 2, 2019

2019 3CS HOSTED BY:



bossier parish
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