

Wireless Network Name(SSID): SheratonMeetingRooms
Wireless Network Passcode: NICECybercon19

CAE in Cybersecurity Symposium

November 21st-22nd, 2019
Sheraton Grand Phoenix
Phoenix, AZ



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Tony Coulson



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CAE in Cybersecurity
Community - CAE
National Resource
Center (CNRC)



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Welcome to the Symposium!



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Each year the CAE in Cybersecurity Community gathers to talk about changes in the program, receive updates from the community, network with other members, and listen to pressing issues in the community. This year, we've invited the CAE-C Program Office, NIST/NICE, and NSF to talk about programs of importance to our community.

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Our Sponsors



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NICE
NATIONAL INITIATIVE FOR
CYBERSECURITY EDUCATION



NCYTE
CENTER

Special thank you to the National Initiative for Cybersecurity Education, the National Security Agency, and the National Cybersecurity Training & Education Center for sponsoring this event!

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Symposium Program Book



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Use the icons to help you navigate the symposium

You can attend one of two tracks: CAE-CDE and CAE-R

Program book layout follows the agenda

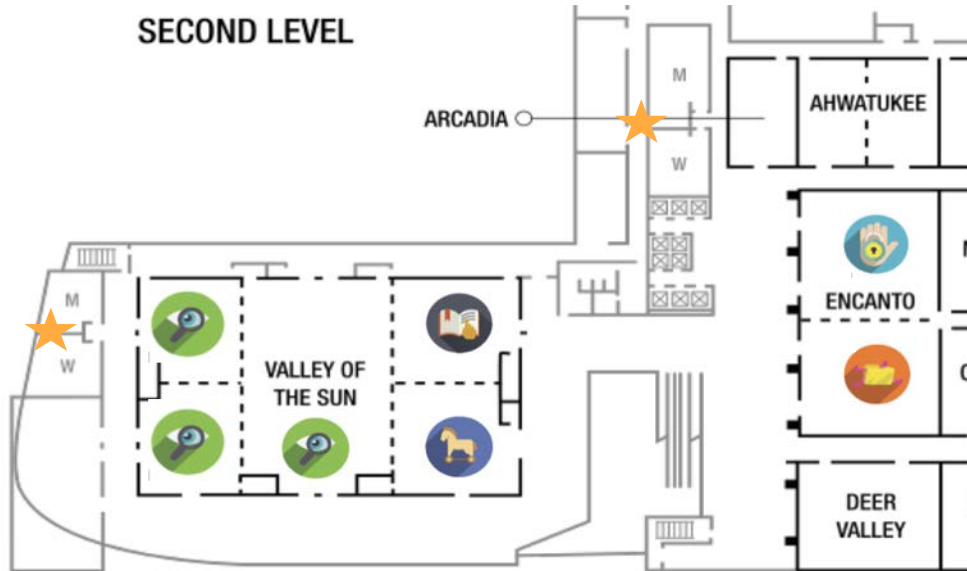
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Symposium Map



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SECOND LEVEL



Fastpitch Icon, Red



Presentation Icon, Yellow



Ballroom Icon, Green



Valley of the Sun A, Sky Blue



Valley of the Sun B, Orange



Valley of the Sun D, Black



Valley of the Sun E, Purple

Use the icons to help you navigate to the appropriate room.

Room agendas are posted outside each room (with exception to Valley of the Sun E, but it is marked with an icon).

Carroll Parker



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National Security
Agency, Chief, Center
for Education,
Innovation, and
Outreach



Diane Janosek



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Commandant of the
National Cryptologic
School at the National
Security Agency

CSH The Cyber Security Hub™
424,983 followers
4d • 🌐

**If you feel your setup is
too slow**



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I changed all my passwords to "incorrect".



**So whenever I forget, it will
tell me "Your password is incorrect."**

Lynne Clark



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Deputy Chief of the
Center for Education,
Innovation, and Outreach
in NSA's National
Cryptologic School



Executive Leadership Panel



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Paul J. Maurer,
Ph.d President
Montreat College



Lawrence Rose
Dean, JHBC
California State
University, San
Bernardino



Dr. Ryan Carstens
President
ENMU – Ruidoso
Branch Community
College



Randy VanWagoner
President
Mohawk Valley
Community College

CAE National Resource Center Panel



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Tony Coulson
CAE CNRC - CAE
Community



Corrinne Sande
CAE CNRC -
Candidates
Program



Art Conklin
CAE CNRC - KU
Development



Margaret Leary
CAE CNRC - Peer
Review

National Science Foundation



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Corby Hovis, Division of
Undergraduate Education
Program Director and Li
Yang, Division of
Graduate Education
Program Director



Rodney Petersen



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NICE

NATIONAL INITIATIVE FOR
CYBERSECURITY EDUCATION

Director of the
National Initiative for
Cybersecurity
Education (NICE)

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Working Lunch

CAE in Cybersecurity Community Website



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Anastacia Webster,
CAE in Cybersecurity
Community Program
Manager

Overview/Stats



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[CAE-C PROGRAM OFFICE](#)

[CAE INSTITUTION MAP](#)
[REGIONAL CENTER LISTINGS](#)
[SYMPOSIUM PRESENTATION ARCHIVE](#)



EDUCATION

The CAE in Cybersecurity's mission for the community is to provide designated institutions with resources to aid in individual workshops, marketing



GOVERNMENT

The CAE in Cybersecurity Community actively engages with our government representatives to provide educational workshops, services, opportunities for funding, conferences, and



INDUSTRY

The CAE in Cybersecurity Community looks to work hand in hand with the industry by providing superlative individuals and institutions to employers in exchange for

- Users: 1,291
- Weekly Newsletter
Subscribers: 1,102
- Weekly Newsletter: 20-25%
- Most popular content:
 - Faculty Jobs
 - CAE Forum/Tech Talk
 - CAE Institution Map

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CAE IN CYBERSECURITY COMMUNITY

CAE-C PROGRAM OFFICE

WHAT IS A CAE?

GRANT SHOWCASE

PAC MARKETING MATERIALS

CAE TECH TALK RESOURCE

[Home](#) / [Resources](#) / [C&E Tech Talk Resources](#)



CAE Tech Talk



is academic forum where members of the CSE community give
 up of people that want to share knowledge with each other. Any

Call Tech Talk is a live, real-time, online, academic forum where members of the CME community give the CME community. We are a warm group of people that want to share knowledge with each other. Any member(s) can present a topic.

CAE Tech Talks are normally held on the first Thursday of each month during the Fall and Spring semesters. The entire CAE community is invited to attend the live presentations.

Join Us on Zoom!
<https://us2.zoom.us/j/9447120>

Tech Talks Recordings and Presentations

Date	Tech Talk
Thursday, October 10	Malware Analysis Using Machine Learning

Thursday	Delivery Attacks on Biometric Systems
----------	---------------------------------------

Thursday, September 10, 2015
Secure and Intelligent Smartphone App

Thursday, May 16, 2019

CAE INSTITUTION MAIL

[Home](#) / [About Us](#) / [CSE in Cybersecurity Community](#) / [CSE Institution Map](#)



Institution Name	Designation	Date
	cc	cc

Institution Name: _____ State: _____

Arizona State University                            

American Public University System

Anne Arundel Community College

Anapurna Community College 48 (48-12) 2025-2026 Colorado

Arizona State University 10 10/10/2020 10:42:04 AM Arizona

Autism University  [1675-2018-2020](#) [1675-2019-2020](#) [1675-2018-2020](#) [1675-2019-2020](#) [1675-2018-2020](#) [1675-2019-2020](#)

Upcoming Additions



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CAE in Cybersecurity
Community About Us

Frequently Asked Questions

Newsletter/Marketing



Reworking Content



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CNRC - CAE COMMUNITY

Home / CNRC - CAE Community



AFFILIATED RESOURCES

Home / Resources / Affiliated Resources



ATE Center Resource - <https://atecentral.net/>

Advanced Technological Education (ATE) program that provides materials and services dedicated to developing and implement ideas to improve the skills of technicians and the educators who teach them for no charge. ATE Central is primarily based at two-year colleges with a focus on helping educators, students, and the general public learn about all that the Advanced Technological Education program offers. ATE Center is funded by the National Science Foundation.

CyberWatch West Website - <http://www.cyberwatchwest.org/>

CyberWatch Website - <http://www.nationalcyberwatch.org>

CSSA website - <http://www.cssa.org/>



GenCyber - <https://www.gen-cyber.com/>

The Gen Cyber program works to increase interest in cybersecurity careers and diversity in the cybersecurity workforce, help all students understand correct and safe online behavior, and improve teaching methods for delivery of cybersecurity content to K-12 students. This program provides cybersecurity summer camp experiences for students and teachers for no charge. Funding for this program is provided by the National Security Agency and the National Science Foundation.

SYMPOSIUM PRESENTATION ARCHIVE

Symposium Presentation Archive

Each year the CAE in Cybersecurity Community ga general session presentations. Below, you will find

If you have any problems accessing content or questions, please contact info@caecommunity.org.

2018 CAE in Cybersecurity Symposium

2017 CAE in Cybersecurity Symposium

Affiliated Resources

Regional Center Listings

Symposium Presentation
Archive

Planned Survey



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- January 1, 2020 - January 31, 2020
- Mailing list only
- Types of survey questions
 - Usage
 - Content
 - Updates
 - Communication

The Nation's One-stop-shop for Cybersecurity Careers and Studies!

30,000+ visitors per month
3,000+ cybersecurity training and education
courses available across the nation and online

Students, Launch Your Cyber Career

Do you want to work with the latest technology? Do you like solving problems with creative solutions? Would you like to turn those interests into a lucrative career with opportunities for growth?

Almost everything we do connects to the internet in some way, but our line of defense against possible cyber threats is limited due to a lack of cybersecurity professionals. Do you have what it takes to combat cybercrime?



Cybersecurity is the practice of protecting networks, systems, programs, and data from criminal or unauthorized use.

100+ links to cybersecurity resources
15 cybersecurity career path profiles
40+ Feature Articles

NICCS Training Catalog

The NICCS Education and Training Catalog is a central location to find over 3,000 cybersecurity-related courses across the country and online.

The screenshot shows the 'Search Courses' interface. It includes input fields for 'Keyword', 'Location' (with a placeholder 'Location (Zip Code, City, State or Address)'), and 'Distance' (set to 'All Course Locations'). Below these are dropdown menus for 'Specialty Area' (labeled 'Choose Specialty Area(s)'), 'Provider' (labeled 'Choose Provider(s)'), and 'Proficiency Level' (labeled 'Choose Proficiency Level(s)'). There is a checkbox for 'National CAE Designated Institution'. Search and Reset buttons are present. Below the filters, it says 'Displaying 1 - 20 of 3845 Courses' and 'Show 20 Per Page'. A table lists two courses: '(CFR) CyberSec First Responder: Threat Detection and Response (Exam CFR-210)' from 'New Horizons Computer Learning Center Central' and 'New Horizons South Florida', both with 'Online, Instructor-Led' delivery methods. A 'TOP' button is in the bottom right corner of the table area.

Course Name	Provider	Location	Delivery Method
(CFR) CyberSec First Responder: Threat Detection and Response (Exam CFR-210)	New Horizons Computer Learning Center Central		Online, Instructor-Led
(CFR) CyberSec First Responder: Threat Detection and Response (Exam CFR-210)	New Horizons South Florida		Online, Instructor-Led

Visit: <https://niccs.us-cert.gov/training/search>

CAE Virtual Career Fair



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Amy Hysell, CAE in
Cybersecurity
Community





CWW
cyberwatch west



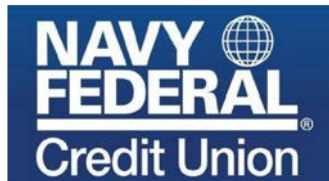
Centers of Academic Excellence

Cybersecurity VIRTUAL Career Fair

Sponsored by CyberWatch West
and the National Science Foundation

September 27, 2019 // 9AM-1PM PT

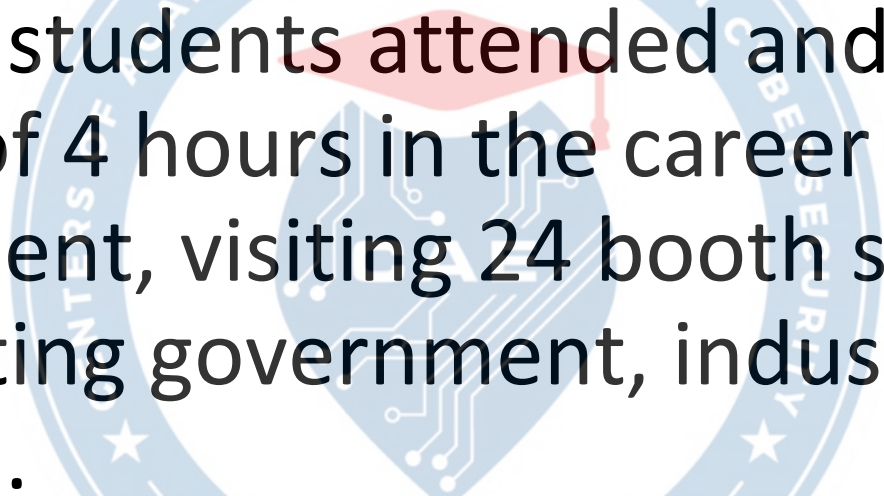




NCYTE CENTER

National Cybersecurity Training & Education Center



The background of the slide features a large, light blue watermark of the University of Northern Iowa seal. The seal is circular with the words "UNIVERSITY OF NORTHERN IOWA" around the top and "ACADEMIC EXCELLENCE IN COMMUNITY" around the bottom. In the center is a shield with a red top section and a blue bottom section containing a white circuit board pattern. Two white stars are positioned on the left and right sides of the seal.

Over 800 students attended and spent an average of 4 hours in the career fair environment, visiting 24 booth sponsors representing government, industry, and academia.



Presentation by
Latasha McCord
from DHS at
11:00am PT.



**NEED TECHNICAL
ASSISTANCE?
VISIT THE HELP DESK**

Sponsored by
the National
Science
Foundation



- 5 EXHIBIT HALL
- 4 AUDITORIUM
- 3 NETWORKING LOUNGE
- 2 RESOURCE CENTER
- 1 HELP DESK



How well do you know
the NICE Framework?



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Auditorium



Exhibit Hall



Resource
Center



Networking
Lounge



Help Desk



Briefcase



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to View the
Webinars



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[Exhibitor Directory](#)**AFCS****CBS Interactive****CYBERSEC JOBS**
ClearedJobs.net**DISA**

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**EXHIBIT HALL**

NEXT

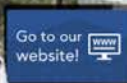


PREVIOUS

CHAT WITH REPS

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Do not forget to check out the live webinars!



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Agenda

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NSA TOP 5
CAREER
FIELDSCOLLEGE
PROGRAMS
at NSADEVELOPMENT
PROGRAMS
at NSA

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Benefits



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How well do you know
the NICE Framework?

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**RALLY****Look Inside!**

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RESOURCE CENTER

Career
Pathway
Maps



Workforce
Role Survey



Resume and
Interview
Workshops



Additional
Resources



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Networking
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Provide Feedback
Click to Take Our Survey



Resume Workshops



Filter By: All



Launch

NICE Tutorials Resume Writing and Interview Techniques Workshop

Learn more about how to perfect your resume and impress employers during the interview!



Share



View

Entering the Cybersecurity Workforce

Learn more about how to structure your resume!



Share



Launch

Workshop Recording

Learn more about how to structure your resume and nail the interview!



Share



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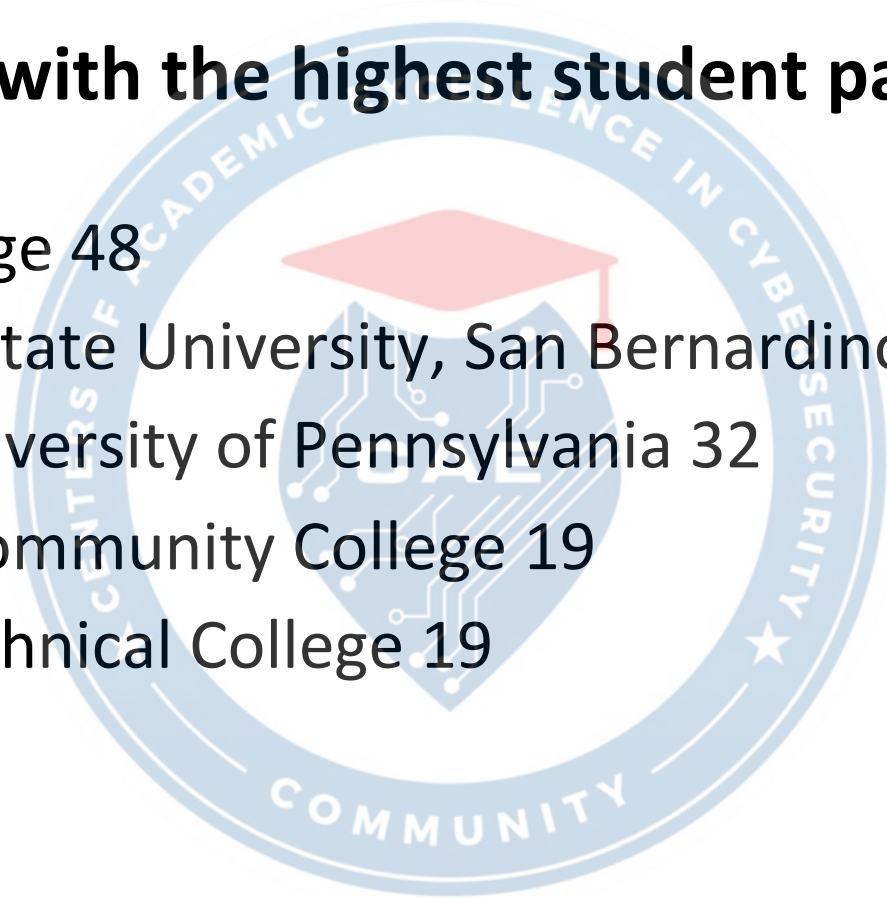


Briefcase

Provide Feedback
Click to Take Our Survey

Institutions with the highest student participation

- Utica College 48
- California State University, San Bernardino 36
- Indiana University of Pennsylvania 32
- Houston Community College 19
- Trident Technical College 19



Cybersecurity workers protect our most important and private information, from bank accounts to sensitive military communications. However, there is a dangerous shortage of cybersecurity workers in the United States that puts our digital privacy and infrastructure at risk.

From October 2018 through September 2019, there were 270,000 openings for Information Security Analysts, but only 112,000 workers currently employed in those positions – an annual talent shortfall of 158,000 workers for cybersecurity's largest job.

There are 235,000 additional openings requesting cybersecurity-related skills, and employers are struggling to find workers who possess them. As a result, the average cybersecurity role takes 20% longer to fill than other IT jobs.

Source: Cyberseek.org, November 2019

Save the date!

CAE in Cybersecurity Virtual Career Fair

September 4, 2020

NCYTE CENTER
National Cybersecurity Training & Education Center



Community Spotlight



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Paul Wagner and
Jason Denno,
University of Arizona

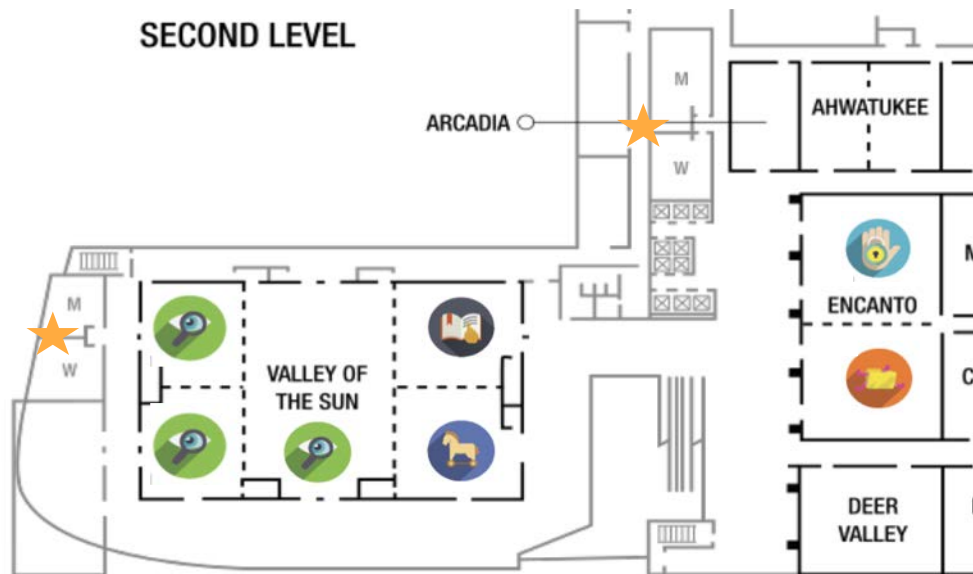
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Symposium Map



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SECOND LEVEL



Fastpitch Icon, Red



Presentation Icon, Yellow



Ballroom Icon, Green



Valley of the Sun A, Sky Blue



Valley of the Sun B, Orange



Valley of the Sun D, Black



Valley of the Sun E, Purple

Use the icons to help you navigate to the appropriate room.

Room agendas are posted outside each room (with exception to Valley of the Sun E, but it is marked with an icon).

2020 Critical Community Actions and Initiatives



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Lynne Clark, Deputy Chief
of the Center for
Education, Innovation, and
Outreach in NSA's
National Cryptologic
School



Vincent Nestler Ph.D.



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California State University,
San Bernardino
NICE Challenge Project PI



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Afternoon Break

Fastpitch Sessions















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Each year we ask members of the CAE in Cybersecurity Community to present their research, projects, or meetings that are of interest to the community. This year we have six Fastpitch speakers and a wide range of topics.

Fastpitch Schedule

Thursday, November 21

3:00pm-3:10pm	Community College Cyber Pilot (C3P) Program	 
3:10pm-3:20pm	International Opportunities for Cybersecurity Faculty	 
3:20pm-3:30pm	An Innovative Approach Using Mixed Reality to Improving Career Readiness	 
3:30pm-3:40pm	Pathway for Community College Students to an ABET-Accredited Degree in Cybersecurity	 
3:40pm-3:50pm	Teach Cyber Now: Ask Me How	 
3:50pm-4:00pm	ACM Cybersecurity Curriculum Guidelines Mapping to CAE Knowledge Units	 

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CAE-C Discussion

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If we had \$45 million, what
would the government get?



Thank you for attending the 2019 CAE
in Cybersecurity Symposium!

All presentations and fast pitch sessions are posted on
the CAE in Cybersecurity Community Website. If you have
additional questions, please contact
info@caecommunity.org.



Additional Meetings



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	Evening Meetings		
5:15pm	DoD Cyber Scholarship Program		Mentor/Reviewer Meeting 

If you are staying for the evening meetings, please break and return at 5:15pm.

CAE-Cybersecurity Designated Institutions and Resource Centers

This map includes 312 institutions designated as CAE-Cyber Defense and Research programs.



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