



# 2022 CAE in Cybersecurity Community Symposium

June 8-10, 2022

The Westin Peachtree Plaza

Atlanta, GA

# Welcome

Welcome to the 2022 CAE Community Symposium. It's great to be together again live after so much time isolated from each other. Zoom has been invaluable, but nothing is as great as meeting in person.

You all persevered through the challenges of the last two years, and as much as we'd all like to think that's behind us, we're not quite there yet. I'm confident whatever we face in the future, if we work together as we have through this last challenge, we'll all succeed.

So many exciting things are going on across the nation in cybersecurity education and workforce development. In Washington, the federal government is working hard to find resources and collaborate on solutions to the problems facing the nation in cybersecurity and education. You've all participated in several events and initiatives, and we look forward to your continuing support.

You're also all busy in your own communities. As I've had the chance in recent months to travel and meet with several of you, I have been proud and overwhelmed by the great work you are all doing. Your creativity and innovation are taking us into new territory, new ideas, and exciting ways of addressing the challenges, vulnerabilities and risks to our nation. I look forward to continuing our work together as we move into this new post-COVID environment with new tools and new ideas for the future.



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Lynne Clark is the Acting Chief of the Center for Education Outreach and Innovation at the National Cryptologic School (A29), NSA. She has 43 years of combined military and civilian service. She received her Air Force commission in 1978, and joined NSA in 1999.

The Center for Education Outreach and Innovation manages the National Cryptologic School's academic activities outside of NSA. This includes the CAE-C program, the GenCyber and STARTALK summer camp programs, cyber competition and Military Academy internship programs, and visiting professors at universities across the nation.

Ms Clark and her team manage CAE-C program office functions such as establishing and maintaining designation criteria, collecting and adjudicating designation applications, bringing new schools into the program, and, on behalf of DoD-CIO, managing the DoD Cyber Scholarship program. Ms Clark facilitates partnerships with federal departments and agencies and represents the National Security Agency at meetings and events. Prior to this assignment, Ms Clark was Deputy Chief of Workforce Resources, Education and Development for NSA's Information Assurance Directorate (IAD). This included responsibility for IAD's hiring and intern programs.

She is the recipient of the Meritorious Civilian Service Award, awarded the Joint Meritorious Unit Award twice for IOSS special projects in support of the Department of Defense, and the National Intelligence Meritorious Unit Citation for support to the Intelligence Community.

Prior to her tenure at the IOSS, Ms Clark served in the U.S. Air Force with worldwide assignments in airspace management, radar operations and operations risk management. She spent eight years serving in NATO during the Cold War and during the Germany reunification. She was involved in development of secure range operations for military RDT&E facilities, advised on risk management issues involved in the START and Open Skies treaties, and managed the Air Force OPSEC Program at the Pentagon. She retired at the rank of Lieutenant Colonel in 1999.

Ms. Clark's academic credentials include a Masters in Clinical Psychology from the Fielding Institute, and a B.A. in Community Development from Baldwin-Wallace College.

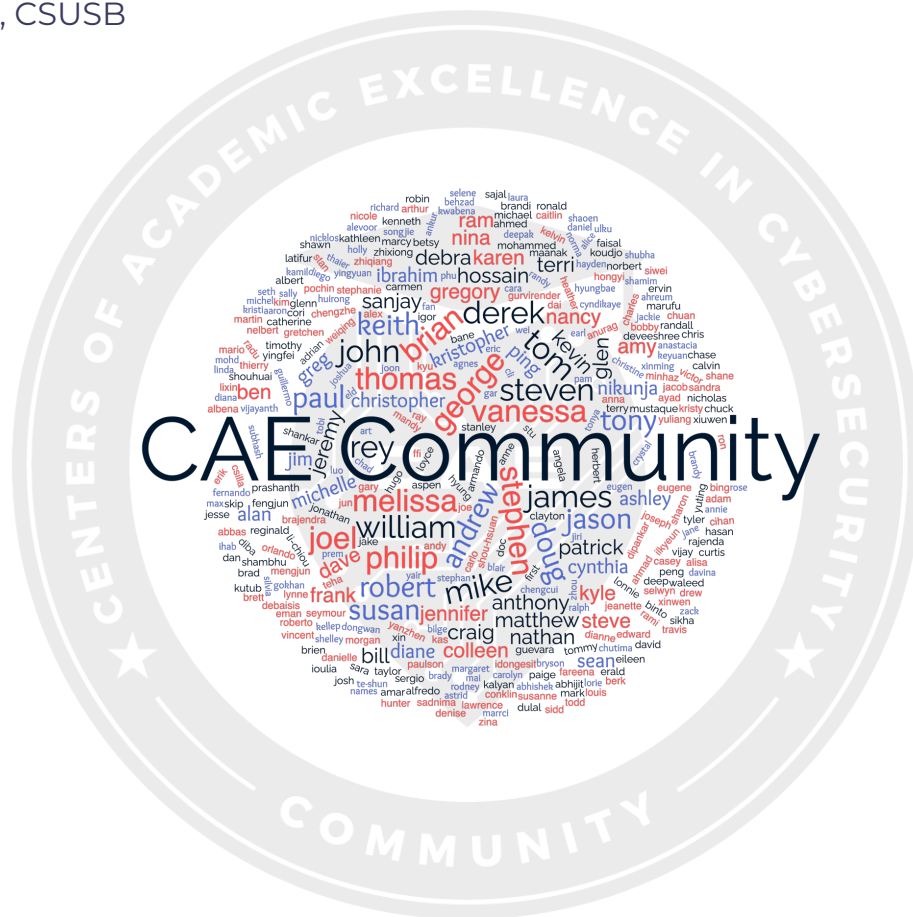
# Message from the Community

Cybersecurity educators are facing demands from government and industry to produce more graduates to fill the current and future workforce needs. Each year, the Centers of Academic Excellence in Cybersecurity Community (CAE-C) assembles to discuss the workforce problem as well as to discuss issues unique to our community, including faculty shortages, bridging the skills gap, and career pathways. The CAE Community is a critical resource in developing a capable cybersecurity workforce for both industry and government. As we like to say, “When have we ever had 380+ colleges and universities working together to solve a problem like this?”

Thank you for your efforts in developing and nurturing the future cyber workforce. There is still much work to be done but the fruit of your efforts will be felt for generations to come.

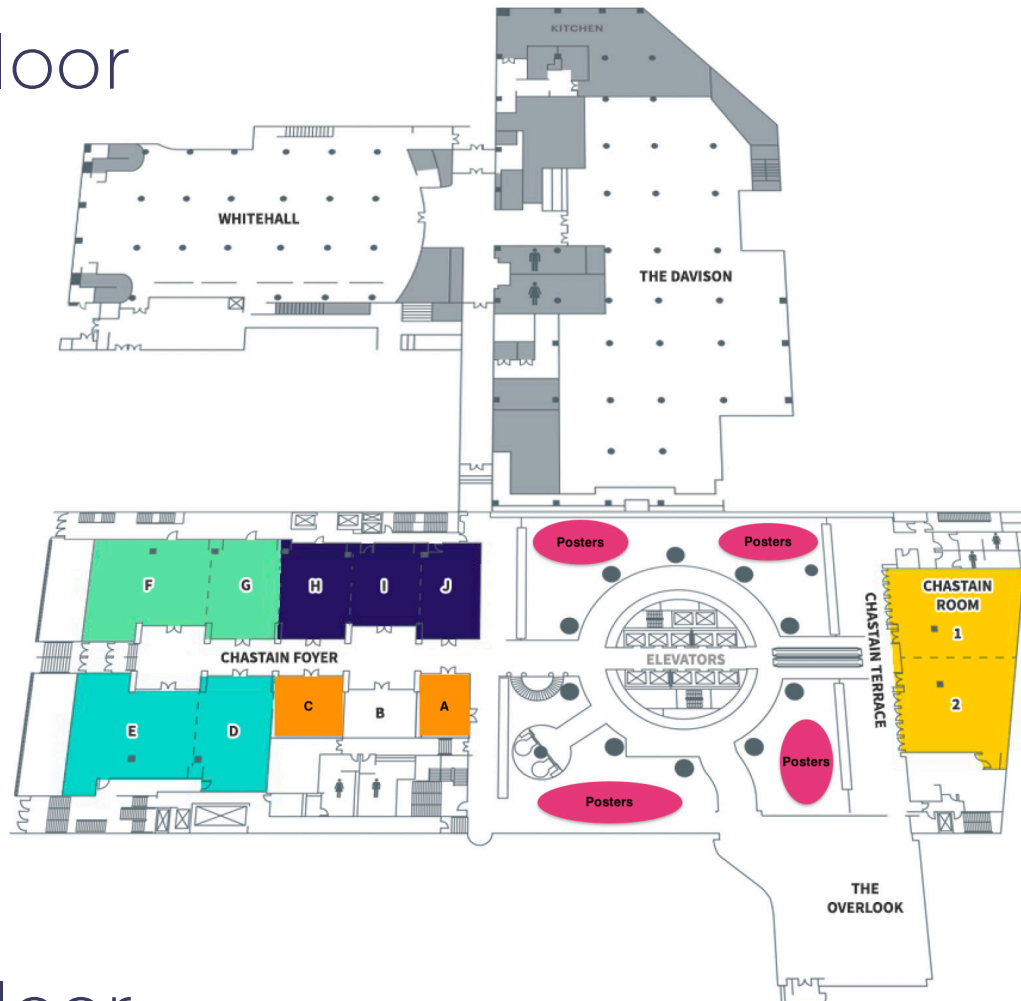
On behalf of the CAE in Cybersecurity Community,

Tony Coulson, CSUSB

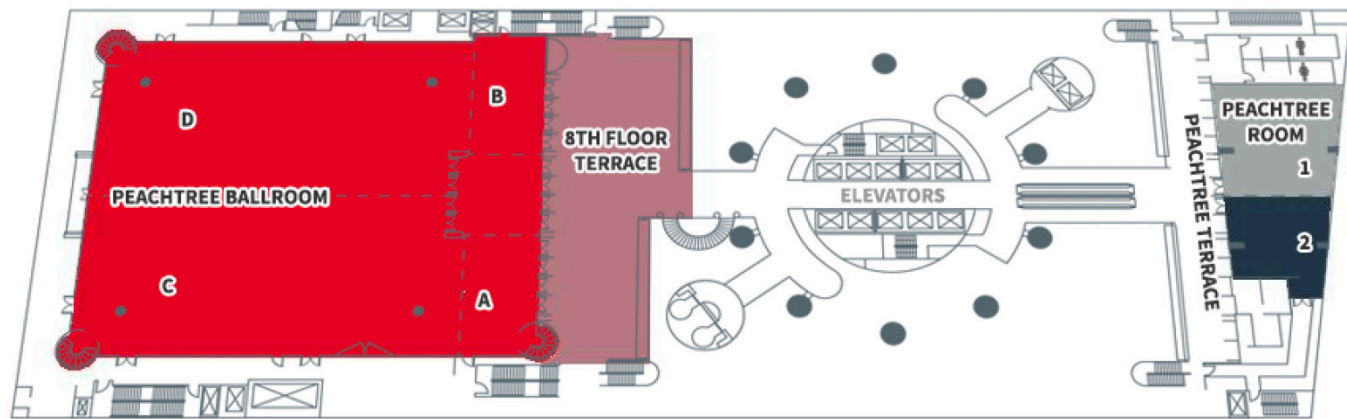


# Getting Around

## 6th Floor



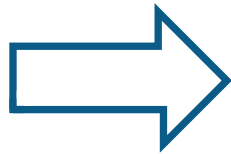
## 8th Floor



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**We want your feedback!**  
Fill out the symposium survey now!



Conference WiFi: Westin Conference  
Password: NICE22

# All-Hub Mixer

Mark it on your  
schedule!

**June 8, 2022 | 5 pm - 7 pm**  
**Westin Peachtree Plaza, Atlanta**  
**Chastain Level Sixth Floor**

Come meet with other regional PIs!  
Refreshments provided.



# All-Hub Mixer Agenda

## Come Join us for

Pre check-in, Hub map activity hosted by CAE-C Community National Center, and Hub Members Networking Session with refreshments.

## Northeast

Stop by and meet your NE reps! Get more info on the Regional Faculty Advisory Board and provide input on who you want to see at the next NE regional townhall meeting. You're invited to learn more about how to get students in NUARI exercises and the NCAE Cyber Games.

## Northwest

Find out what's happening in the NW community! From Outreach events to Faculty Development grants, the NW has tons of initiatives to get involved in. Come hear about their work in GenCyber camps, competency working group meetings, and with the State Department of Education. Looking for regular updates? Sign up for the Bits and Bytes newsletter full of CAE Community opportunities.

## Midwest

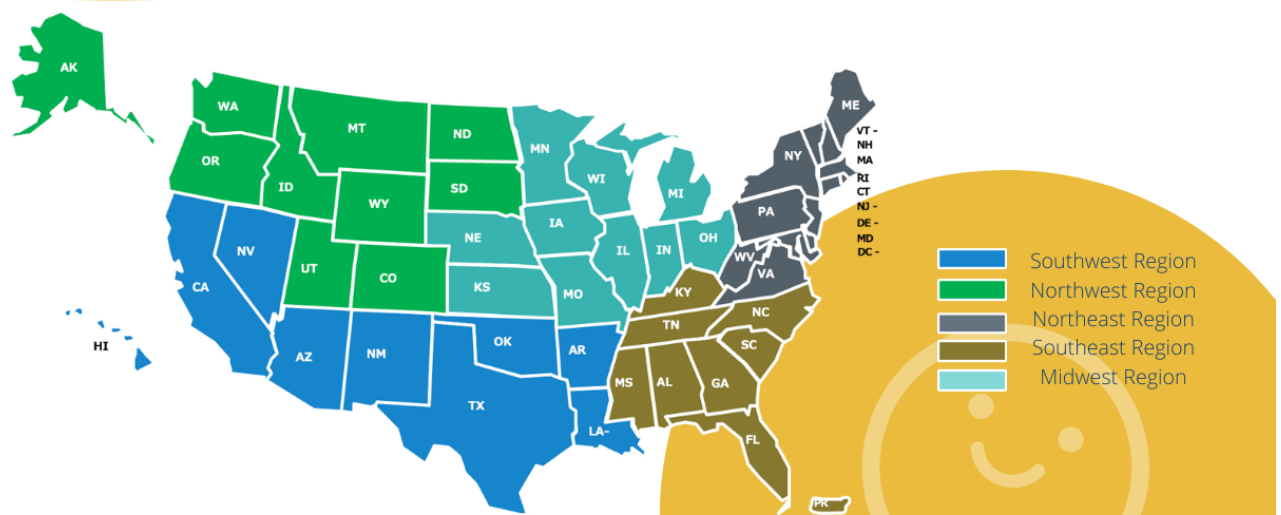
Enjoy a quick meet and greet with other Midwest Hub PIs and share CAE cybersecurity initiatives occurring at your institution. Get to know your leads Dr. John Sands and Stanley Kotska with appearances from Davenport University and Lonnie Decker. They will be discussing efforts up to date including K-12 Cybersecurity Career Pathways and Educational RING Initiatives. You can also get more info on how to sign up for the August Midwest PI In-person meeting at Moraine Valley Community College on August 18 as well as the August 19 CAE Designation Ceremony.

## Southwest

Come talk to the SW Hub and get more info on their two day in-person NCAE-C Southwest Regional Hub Event on June 21 & 22 in San Antonio Texas at University of Texas San Antonio and San Antonio College Campuses. They'll be discussing how to get involved with Quarterly Virtual Southwest Region Meetings, NUARI Competitions Program, and CAE-C Competitions. Be sure to ask about their involvement with Whatcom Community College and the NCyTE center to review CAE applications

## Southeast

Please join the SE Hub for the 2022 Southeast CAE-C Forum and Designation Ceremony on Sep. 28-29, in Charlotte, NC. The SE event will include updates from the NCAE-C Program Office and Community Center, shareable best practices and resources, and networking and collaboration opportunities with the CAE-C Community, government, and industry partners.



Join us after the breakout sessions on Thursday for a resource expo and mixer with our industry sponsors.

**June 9 | 5-9pm**

**Hors d'ouervres and refreshments provided**

**Chastain level - 6th Floor**





# Schedule of Events

5:00-9:00pm Hors d'ouervres and refreshments

Chastain Foyer

5pm-9pm CARD/CLARK

Chastain Foyer

5:30pm Presentation by Immersive Labs

Chastain DE

6:00pm Presentation by Cyberbit

Chastain HIJ

6:30pm Presentation by Haiku

Chastain FG



Hosted by:



# Thursday, June 9, 2022

7:30am	Registration (No breakfast provided) (8th floor Ballroom)			
8:00am	Welcome (8th floor Ballroom)			
8:15am	CAE-C Community Updates (8th floor Ballroom)			
8:45am	NCAE-C Partner Updates (8th floor Ballroom)			
9:45am	Break			
10:00am	Competitions (8th floor Ballroom) Jake Mihevc			
10:30am	CARD and CLARK (8th floor Ballroom) Sidd Kaza and Blair Taylor			
10:55am	KU Initiatives (8th floor Ballroom)			
11:10am	CAE-R Designation Presentation (8th floor Ballroom)			
12:00pm	<p>Working lunch – box lunch grab and go to:</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p><b>CAE-CD Track</b>  <b>12:00pm:</b> Fast Pitch Talks  <b>1:10pm:</b> Break  <b>1:20pm:</b> Presentations  <b>2:45pm:</b> Break  <b>3:00pm:</b> Presentations</p> </td> <td style="vertical-align: top;"> <p><b>CAE-CO Track</b>  <b>12:00pm:</b> CO POC Meeting with KUs  <b>2:45pm:</b> Break  <b>3:00pm:</b> CO Designation Criteria (open to all with a Q&amp;A)</p> </td> <td style="vertical-align: top;"> <p><b>CAE-R Track</b>  <b>12:00pm:</b> CAE-R Designation Q&amp;A  <b>1:00pm:</b> Research Grant Presentations  <b>2:45pm:</b> Break  <b>3:00pm:</b> CAE-R POC Meeting</p> </td> </tr> </table>	<p><b>CAE-CD Track</b>  <b>12:00pm:</b> Fast Pitch Talks  <b>1:10pm:</b> Break  <b>1:20pm:</b> Presentations  <b>2:45pm:</b> Break  <b>3:00pm:</b> Presentations</p>	<p><b>CAE-CO Track</b>  <b>12:00pm:</b> CO POC Meeting with KUs  <b>2:45pm:</b> Break  <b>3:00pm:</b> CO Designation Criteria (open to all with a Q&amp;A)</p>	<p><b>CAE-R Track</b>  <b>12:00pm:</b> CAE-R Designation Q&amp;A  <b>1:00pm:</b> Research Grant Presentations  <b>2:45pm:</b> Break  <b>3:00pm:</b> CAE-R POC Meeting</p>
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4:45pm	Break			
5:00pm-9:00pm	Sponsor Mixer (6th Floor) - Hors D'oeuvres and poster presentations (please note, posters will be unattended)			

# Friday, June 10, 2022

8:00am	NCAE-PMO and NICE Updates (8th floor Ballroom) Working Breakfast	
8:30am	CAE Community service recognitions (8th floor Ballroom)	
9:00am	Keynote (8th floor Ballroom)	
9:45am	Keynote Q&A (8th floor Ballroom)	
10:00am	Morning Break	
10:15am	<b>CAE-CD Track</b> 10:15am: CAE Panel Presentation 11:00am: New CAEs and New POCs Meet-and-Greet with welcome by Lynne Clark <b>(Ballroom)</b>	<b>CAE-R Track</b> 10:15am: TD Panel 11:15am: INSuRE+C Student Project Presentation
12:15pm	Dismissal/Closing Remarks (Lunch not provided) Tony Coulson	



# CAE-R Schedule

Thursday, June 9, 2022

11:00am

**Presentation CAE-R (Re-)Designation (8th Floor Ballroom)**  
Session Chairs: Cynthia Irvine and Susanne Wetzel

12:00pm

**Q&A on CAE-R (Re-)Designation**  
Session Chair: Agnes Chan

1:00pm

**Research Grantee Presentations (6th floor, Chastain 1 and 2)**  
Session Chair: Eugene Vasserman

**1:00pm:** Overview of CAE Research Program, *Alice Smitley*, NSA

**1:20pm:** Path-Aware Risk Scores for Access Control in Zero-Trust Systems, *Philip Brown*, University of Colorado, Colorado Springs

**1:40pm:** Juicing V8: A Primary Account for the Memory Forensics of the V8 JavaScript Engine, *Ibrahim Baggili, Samuel Bergami, and Enoch Wang*, Connecticut Institute of Technology

**2:00pm:** Exploration of Heuristic and Probabilistic Tools in Quantum Computing with Applications to Cryptography, *Hugo Delgado*, Polytechnic University of Puerto Rico

**2:20pm:** CanarySat: A Virtual CubeSat Model for Cybersecurity Research and Education, *David Coe, Aleksandar Milenkovic, Jeffrey Kulick and Letha Etzkorn*, The University of Alabama in Huntsville

2:40pm

**Break**

3:00pm-5:00pm

**CAE-R Point of Contact Meeting (6th floor, Chastain 1 and 2)**  
Session Chairs: Agnes Chan and Susanne Wetzel

## Friday, June 10, 2022

9:00am-9:45am

**Keynote: Cybersecurity Research at the National Security Agency: Current Directions and Future Challenges (8th floor Ballroom)**  
*Dr. Mark Segal*, Deputy Director  
NSA Research Directorate

10:15am

**Panel of Technical Directors for the INSuRE Program (6th floor, Chastain HIJ)**  
Session Chair: Susanne Wetzel  
*Timothy Davison*, Johns Hopkins University Applied Physics Laboratory  
*Roland Varriale*, Argonne National Laboratory  
*Edward Ziegler*, National Security Agency

11:15am

**INSuRE+C Student Presentations (6th floor Chastain HIJ)**  
Session Chair: Shambhu Upadhyaya

**11:15am:** *Audio Deepfake Detection*, *Chengzhe Sun*, SUNY Buffalo, *Ehab AlBadawy*, University of Albany, *Siwei Lyu*, SUNY Buffalo, *Timothy Davison*, JHU Applied Physics Lab, *Sarah Robinson*, JHU Physics Lab, *Nathaniel Kavalier*, JHU Applied Physics Lab

**11:45am:** *Towards a Rigorous Approach for Zero Trust in the 5G Core*, *Norbert Ludant*, Northeastern University, *Guevara Noubir*, Northeastern University, *Marinos Vomas*, Northeastern University

12:15pm

**Closing Remarks**

10:15am-4:00pm

**Special Topics Workshop: Transformational Research in Usable Security (Event in Parallel, By Invitation Only) (Chastain C)**  
Workshop Organizers: Heather Lipford, University of North Carolina Charlotte and Cori Faklaris, Carnegie Mellon University  
Participants: Hana Habib, Carnegie Mellon University, Apu Kapadia, University of Indiana, Frank Li, Georgia Tech, David Maimon, Georgia State University, Michelle Mazurek, University of Maryland, College Park, Xinming Ou, University of South Florida

# CAE-CD Schedule

Thursday, June 9, 2022

12:00pm

**Fast Pitch Talks – 10 minutes each (rooms run concurrently)**

## **Room 1 (Chastain DE)**

Session Chair: Anna Carlin

### **What is Missing in Cybersecurity Curriculum?**

Bo Yuan, Rochester Institute of Technology

### **OpenStack Private Cloud for Cyber Capstone Development and Implementation**

Chuck Bane, University of San Diego

### **Incorporating AI Into Software Reverse Engineering Courses**

Xiuwen Liu, Florida State University

Mike Burmester

### **How to Build Large Student Cyber Clubs**

Mike Morris, Western Governor's University

### **Lessons Learned from the Development of Dual-Enrollment Programs with High Schools**

Yair Levy, Nova Southeastern University

### **CAE-CD is Not the end goal, it is the first door to a world of opportunities for Cyber Initiatives**

Shankar Banik, The Citadel

## **Room 2 (Chastain FG)**

Session Chair: Anne Kohnke

### **Establishing New K-12 Pathways**

Andrew Lutz, Johnson County Community College

### **Micro Transcripts: Quantifiable and Auditable Workforce Readiness Transcripts (WRT) for Internships**

Ram Dantu, University of North Texas

Mark Thompson

### **Developing Competency Through Competitions**

Dan Manson, Cal Poly Pomona

Morgan Zantua

### **A Final Stop of the CWCT Journey: Training Participant Job Placement with Certifications**

Mengjun Xie, University of Tennessee at Chattanooga

Stephen Reiter

### **The UAH Cyber Force Incubator**

Tommy Morris, The University of Alabama in Huntsville

### **The easiest interview answers - your story**

Robert Loy, Grand Canyon University

12:00pm

### Room 3 (Chastain HIJ)

Session Chair: Margaret Taylor

#### Cybersecurity Pathways: Implementing a Systems Based Approach Through Mentoring

Lonnie Decker, Davenport University  
Teha Emmons

#### Stepping-Stone Intrusion Upstream Detection Using Round Trip Time Distribution

Jianhua Yang, Columbus State University

#### Hierarchical Multi-Blockchain Architectures for Autonomous Management of Medical Data/Devices

Mike Burmester, Florida State University  
Xiuwen Liu

#### Critical Infrastructure – Training

Dipankar Dasgupta, University of Memphis  
Jim McGinnis

#### Education on Cybersecurity Issues with Smart Power Grid

Mohd Hasan Ali, The University of Memphis

#### Waleed Farag, Indiana University of Pennsylvania

Benefits from a Novel Outreach Project that Supports Cybersecurity Professional Development

1:20pm

### Presentations – 20 minutes each (rooms run concurrently)

#### Room 1 (Chastain DE)

Session Chair: Greg Laidlaw

#### Making Knowledge Units Work for Your Program

Art Conklin, University of Houston  
Seth Hamman

#### The Lack of Incident Response Curriculum in the CAE Community: Call to Action

Casey O'Brien, University of Illinois Urbana-Champaign  
David Umphress

#### ERAU & A-ISAC CTF: Raising Awareness about Aviation Cybersecurity

Jesse Chiu, Embry-Riddle Aeronautical University - Prescott Campus  
Krishna Sampigethaya

#### Developing a "Hands On" Security Compliance Course

Joseph Jeansonne, Pitt Community College

# CAE-CD Schedule

1:20pm

**Presentations – 20 minutes each (rooms run concurrently)**

## **Room 2 (Chastain FG)**

Session Chair: Loyce Pailen

**Ensuring consistency across the curriculum**

Brandy Harris, Grand Canyon University

**Mapping of the NERC-CIP Standards with the NIST CSF**

Guillermo Francia, University of West Florida

**Building a Smart Secure Manufacturing Testbed Using Zero Trust Model, Machine Learning and 5G**

Holly Yuan, University of Wisconsin-Stout  
Brandon Cross

**RMF vs CSF: Which is Better for Higher Ed?**

Matt Paulson, Weber State University

## **Room 3 (Chastain HIJ)**

Session Chair: Kim Muschalek

**Ransomware Incident Preparations with Ethical Considerations and Command System Framework Proposal**

Stanley Mierzwa, Kean University

**Meeting the Cybersecurity Workforce Challenge: One Goal, Innovative Solutions**

Eman El-Sheikh, University of West Florida  
Michael Tu, Purdue University Northwest  
Andrew Wright, University of Louisville

**Mapping Low Cost and Open Source Labs to the NICE Workforce Framework**

Chris Simpson, National University

**Cyber Sleuthing: An Introduction to Cybersecurity Using Gamification**

Curtis Coleman, Oklahoma Christian University

2:45pm

**Break**



3:00pm

**Presentations – 20 minutes each (rooms run concurrently)**

**Room 1 (Chastain DE)**

Session Chair: Jake Mihevc

**Long and Winding Road: Navigating to a Cybersecurity Performance Based Education (PBE) Curriculum**

Norma Colunga-Hernandez, Texas State Technical College in Harlingen  
Amy Hertel

**Program of Study Validation: Cybersecurity Concentration at FDU**

Ihab Darwish, Fairleigh Dickenson University

**K12-University Cybersecurity Education Partnership Best Practices**

Deveeshree Nayak, University of Washington

**Colorado's Cybersecurity Educational Diversity Initiative (CEDI): Urban/Rural HSIs & the Wild West**

Jeffrey London, MSU Denver  
Steve Beaty

**Room 2 (Chastain FG)**

Session Chair: Wei Li

**Mininet as a Networking Tool for simulating 4 different Cyber Attacks: Experimental Results**

George Meghabghab, Roane State

**Computer Forensics Teaching Resources**

Jeffrey Duffany, Polytechnic University of Puerto Rico  
Alfredo Cruz

**"A Slice of Raspberry Pi Dessert for GenCyber Teachers"**

Loyce Pailen, University of Maryland Global Campus  
Kimberly Mentzell

**Room 3 (Chastain HIJ)**

Session Chair: Tobi West

**Honeypots and Knowledge Discovery in Teaching Network Defense**

Ping Wang, Robert Morris University

**Stepping-Stone Intrusion Detection using Crossover Packets**

Lixin Wang, Columbus State University

**The Applications of Internet of Things in the Medical Field**

Lixin Wang, Columbus State University

4:45pm

**Break**

5:00pm-9:00pm

**Sponsor Mixer 6th Floor (Hors d'oeuvres and Sponsors' Presentations)**

# CAE-CD Schedule

Friday, June 10, 2022

8:00am	Working Breakfast (8th floor Ballroom)
8:30am	CAE Community service recognitions (8th floor Ballroom)
9:00am	Keynote (8th floor Ballroom)
9:45am	Keynote Q&A (8th floor Ballroom)
10:00am	Morning Break
10:15am	<p>Panel Presentation (8th floor Ballroom) Session Chair: Gretchen Bliss</p> <p><b>The “Power of Six”: Creating Cyber Experiences and Building a Diverse Talent Workforce Pathway</b> Sharon Hamilton, Norwich University Linda Riedel, The Citadel Bryson Payne, University of North Georgia</p>
11:00am	New CAEs and New POCs Meet-and-Greet with welcome by Lynne Clark (8th floor Ballroom)

# CAE-CO Schedule

Thursday, June 9, 2022

12:00pm-2:45pm	<p><b>CO CoP Meeting (CO POCs only) (6th floor Chastain C)</b> The Cyber Operations Community of Practice will discuss the new application process, the KUs, and other topics of interest. The NSA PMO will be in attendance. This meeting is limited to CO POCs only. (Contacts: Drew Hamilton and Seth Hamman)</p>
3:00pm-4:45pm	<p><b>CO Designation Criteria (open to all) (6th floor Chastain C)</b> The Cyber Operations designation is open for applications. During this session, we will review the designation criteria, how to know when you are ready to apply, and where to find helpful resources. There will be ample time for Q&amp;A. Moderated by Drew Hamilton, Seth Hamman, and the NSA PMO.</p>

# Access this Week's Presentation and Fast Pitch Abstracts



## Thank you to the CAE Program Committees

As the Community grows, so do the needs. Each year, the demand for collaboration and cooperation increases as we welcome more newly designated colleges and universities. The Symposium couldn't happen without help from our dedicated faculty committees who spend hours reviewing submissions and ensuring that content shared to the Community is relevant and valuable. If you see one of our committee members this week, please take a moment to thank them for their service to the Community.

### CAE-CD Program Committee

Tobi West - Coastline Community College, 2022 CAE-CD Planning Committee Co-Chair  
Gretchen Bliss - University of Colorado Colorado Springs, 2022 CAE-CD Planning Committee Co-Chair  
Anne Kohnke - University of Detroit Mercy, 2022 CAE-CD Planning Committee, Member  
Yair Levy - Nova Southeastern University, 2022 CAE-CD Planning Committee Member  
Margaret Taylor - College of Southern Nevada, 2022 CAE-CD Planning Committee Member  
Paul Wagner - The University of Arizona, 2022 CAE-CD Planning Committee Member

### CAE-CO Program Committee

Seth Hamman – Cedarville University, 2022 CAE-CO Program Planning Co-Chair  
Drew Hamilton – Texas A&M University, 2022 CAE-CO Program Planning Co-Chair

### CAE-R Program Committee

Agnes Chan - Northeastern University, 2022 CAE-R Planning Committee Co-Chair  
Susanne Wetzel – Stevens Institute of Technology, 2022 CAE-R Planning Committee Co-Chair

# CAE-C Community Leads

## Northeast

**Hub Lead:** Blair Taylor (btaylor@towson.edu)  
**Hub Lead:** Sidd Kaza (SKaza@towson.edu)  
**Hub Lead:** Jake Mihevc (JMihevc@mvcc.edu)  
**Hub Lead:** William Butler (whbutler@captechu.edu)

## Northwest

**Hub Lead:** Gretchen Bliss (gbliss@uccs.edu)  
**Hub Lead:** Gurvinder Tejay (gtejay@uccs.edu)

## Midwest

**Hub Lead:** John Sands (sands@morainevalley.edu)  
**Hub Lead:** Stanley Kotska (kostkas@morainevalley.edu)

## Southwest

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## South East

**Hub Lead:** Eman El-Sheikh (eelsheikh@uwf.edu)  
**Hub Lead:** Anthony Pinto (apinto@uwf.edu)

## CAE-CD

**CoP Lead:** Yair Levy (levvy@nova.edu)  
**CoP Lead:** Anne Kohnke (kohnkean@udmercy.edu)

## CAE-CO

**CoP Lead:** Seth Hamman (shamman@cedarville.edu)  
**CoP Lead:** Drew Hamilton (hamilton@exchange.tamu.edu)

## CAE-R

**CoP Lead:** Agnes Chan (ahchan@ccs.neu.edu)  
**CoP Lead:** Susanne Wetzels (swetzels@stevens.edu)

To learn more about the CAE in Cybersecurity Community, visit [caecommunity.org](https://caecommunity.org)

**Thank you** for attending the 2022 CAE in Cybersecurity Community Symposium! All materials from the symposium will be available to view on the CAE in Cybersecurity Community website at [caecommunity.org](https://caecommunity.org). If you have any questions, comments, or concerns, please contact us at [info@caecommunity.org](mailto:info@caecommunity.org)