Security Professionals
CONFEERENCE 2017

REFLECT  FOCUS  ENVISION

Acknowledge the Past, Assess the Present, Anticipate the Future

Denver, Colorado | May 1–3, 2017
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Welcome to the 15th Annual Security Professionals Conference where you will reflect on our collective past experiences, focus on current challenges, and envision new strategies to improve information security in higher education.

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GETTING STARTED

SESSION ABSTRACTS

Session titles and presenters are listed in this program chronologically by theme. For the most up-to-date program information, including descriptive session summaries, visit the meeting website (events.educause.edu/sec17) or use our mobile app (see page 6).

SESSION-LEVEL CLASSIFICATIONS

To assist you in the selection of sessions, we’ve designated them with a session audience/“depth” classification level to provide a rough guideline as to the level of detail that will be covered by the speakers. Levels include:

- General Interest
- Topic Specific/Intermediate
- Deep Dive/Advanced

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Wireless is available during registration hours. Please be respectful and limit your use of personal MiFi devices. These will disrupt the wireless experience for those around you.

SESSION RESOURCES

All presenters are invited to provide their session resources including slides, videos, and handouts. These resources are available to participants on the Security Professionals Conference website.
RECORDING/STREAMING POLICY

Because all presentations and associated materials are the presenters’ intellectual property, you must obtain the presenters’ permission to record or stream their session or activity in any medium (including, but not limited to, Periscope, Meerkat, and YouTube).

Recording/streaming for commercial purposes is allowed only with prior written permission from both EDUCAUSE and the presenters. EDUCAUSE reserves the right to ask any participant to move within or to leave a session venue if their use of technology is disruptive to presenters or other participants.

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Take an active role in your event experience while on-site and online:

Join the Twitterati: Tag your tweets with #Security17.

“Like” our Facebook page: Get updates on all things EDUCAUSE.

Be a photo journalist: Share your images online and tag them with #Security17.

Stay updated on the EDUCAUSE community: Connect with us on LinkedIn.

EVALUATION FEEDBACK

Your input is vital to helping shape future events—from what’s offered through the program to who presents it. Please tell us what you think.

SESSIONS
Share your thoughts on sessions and presenters through the mobile app or online agenda:
events.educause.edu/sec17/agenda

OVERALL
Watch for the overall evaluation e-mail shortly after the event.

RECEPTION

TUESDAY, MAY 2, 5:30–6:30 P.M.
COLORADO BALLROOM A-D AND FOYER, LOWER LEVEL 2

• Relax over food and drink and get to know your colleagues.
• A cash bar will be available; each attendee will receive one drink ticket.

NOTE: Please wear your name badge for admittance.
Download the Event Mobile App

The **EDUCAUSE Conferences and Events** app will guide you through the daily schedule and provide pertinent session information and updates.

- Access the daily agenda
- View session descriptions
- Create a personal itinerary
- Review presenter bios
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In addition to thanking the individuals above for their generous dedication and leadership, we’d like to offer a special thanks to the 2017 adjunct proposal reviewers for their contributions during the proposal review and evaluation process.
ADDITONAL EXPERIENCES ON-SITE

RENSAC MEMBER MEETING
MAGNOLIA HOTEL

The Research and Education Networking Information Sharing and Analysis Center is an integral part of higher education’s strategy to improve network security. REN-ISAC members will gather May 3, directly after the Security Professionals Conference. Separate registration and fee are required. Learn more at ren-isac.net/events/RIMM.html.

TUESDAY, STARTING AT 8:00 P.M.
GET YOUR GAME ON!
DENVER BALLROOM 1-3, LOWER LEVEL 2

Join us for the fifth annual Security Professionals Conference game night! This is a great way to kick off the conference and get to know your fellow conference-goers in a relaxed atmosphere. No experience is necessary. Hosted bar and snacks provided. 
Sponsored by Rapid7

TRIVIA NIGHT
DENVER BALLROOM 4-6, LOWER LEVEL 2

Join us for the second annual Security Professionals Conference trivia night! Form a team of up to five people (or fly solo!) to answer five categories of 10 timed questions. When the trivia game is over, stick around to join your colleagues over at Get Your Game On!

WEDNESDAY, 6:00–6:45 A.M.
FUN RUN
MEET IN HOTEL LOBBY

Join your colleagues for a leisurely 3-mile or 30-minute run. Enjoy the city by participating in a refreshing early morning jog.

PHOTO WALK
MEET IN HOTEL LOBBY

Whether you are a DSLR master, a smartphone Instagram sharer, or a film traditionalist, enjoy the sights of Denver and the company of fellow photographers during this morning walk. Bring walking shoes and your camera of choice.
MAKE A DIFFERENCE BY OFFERING MORE THAN INFORMATION SECURITY

This year, you have the unique opportunity to assist underserved youth in Denver’s Five Points neighborhood by helping the Heart and Hand Center, which provides consistent and compassionate support through quality after school programming.

Learn how you can help at events.educause.edu/sec17serviceproject.

EARN CREDITS TOWARD YOUR CERTIFICATIONS

You can claim credits for your privacy and security certifications when you participate in the Security Professionals Conference. Participants can earn up to 10.5 CPE credits by attending the main conference (May 2–3) and as many as 6 additional CPE credits by attending preconference seminars (May 1). Learn more at events.educause.edu/sec17/certification.

WANT MORE CYBERSECURITY RESOURCES?


Public service announcement: Please be aware that the Security Professionals Conference draws broad participation, including various media and promotional organizations. While the event is a secure environment to share ideas, challenges, and success stories, we acknowledge that there are representatives from media in attendance who will be documenting the experience to share with their constituents.
# Schedule at-a-Glance

## Monday
- **Breakfast for Seminar Participants** 7:30–8:30 a.m.
- **Registration** 7:30 a.m.–5:30 p.m.
- **Morning Preconference Seminars** 8:30 a.m.–12:00 noon
- **Full-Day Preconference Seminars** 8:30 a.m.–4:30 p.m.
- **Refreshment Break for Seminar Participants and Corporate Displays** 10:00–10:30 a.m.
- **Corporate Displays** 10:00 a.m.–3:00 p.m.
- **Lunch for Seminar Participants** 12:00 noon–1:00 p.m.
- **Afternoon Preconference Seminars** 1:00–4:30 p.m.
- **Refreshment Break for Seminar Participants and Corporate Displays** 2:30–3:00 p.m.
- **“Now What Do I Do?” Welcome and Orientation for First-Time Attendees** 4:45–5:30 p.m.
- **Happy Hour Meet-Up Receptions** 5:30–6:45 p.m.
- **Birds-of-a-Feather Sessions (BOFs)** 8:00–10:00 p.m.

## Tuesday
- **Networking Breakfast** 7:00–8:00 a.m.
- **Registration** 7:00 a.m.–5:30 p.m.
- **Connect Lounge** 7:00 a.m.–5:30 p.m.
- **Sessions** 8:00–9:00 a.m.
- **Opening General Session** 9:15–10:15 a.m.
- **Refreshment Break and Corporate Displays** 10:15–11:00 a.m.
- **Corporate Displays** 10:15 a.m.–6:30 p.m.
- **Sessions** 11:00 a.m.–12:00 noon
- **Lunch** 12:00 noon–1:00 p.m.
- **Sessions** 1:00–2:30 p.m.
- **Refreshment Break and Corporate Displays** 2:30–3:15 p.m.
- **Sessions** 3:15–4:15 p.m.
- **Sessions** 4:30–5:30 p.m.
- **Reception** 5:30–6:30 p.m.
- **PGP Key Signing** 6:30–7:30 p.m.
- **Optional Evening Activities** See page 8 for details.
  - 8:00 p.m.–12:00 midnight

## Wednesday
- **Optional Morning Activities** 6:00–6:45 a.m. See page 8 for details.
- **Networking Breakfast** 7:00–8:00 a.m.
- **Registration** 7:00 a.m.–12:30 p.m.
- **Connect Lounge** 7:00 a.m.–12:30 p.m.
- **Sessions** 8:00–9:00 a.m.
- **Sessions** 9:10–10:10 a.m.
- **Refreshment Break** 10:10–10:20 a.m.
- **Sessions** 10:20–11:20 a.m.
- **Closing General Session** 11:30 a.m.–12:30 p.m.
May 1, 2017

7:30–8:30 a.m.

Continental Breakfast for Preconference Seminar Participants
COLORADO BALLROOM FOYER, LOWER LEVEL 2

7:30 a.m.–5:30 p.m.

Registration Desk Open
COLORADO BALLROOM FOYER, LOWER LEVEL 2

8:30 a.m.–12:00 noon

MORNING SEMINARS
Please note: Separate registration and fee are required to attend seminars.

Seminar 01A | Designing and Building a Cybersecurity Program Based on the NIST Cybersecurity Framework
DENVER BALLROOM 1-3, LOWER LEVEL 2
Lawrence Wilson, Chief Information Security Officer, University of Massachusetts Central Office

Seminar 02A | PCI 101: Getting Up to Speed
COLORADO BALLROOM IJ, LOWER LEVEL 2
Brad Judy, Information Security Officer, University of Colorado System

Seminar 03A | Benchmarking Information Security: What’s Your Weakest Link?
PENROSE 2, LOWER LEVEL 1
Javier Torner, Information Security Officer, California State University, San Bernardino; Leah Lang, Director of Analytics Services, EDUCAUSE; Leo Howell, Assistant Director, Information Security Risk and Assurance, NC State University

Seminar 04A | Proactive IT Procurement: Bridging the Chasm of Governance, Risk Management, and Compliance
COLORADO BALLROOM GH, LOWER LEVEL 2
Neal Fisch, Information Security Officer and Director, Enterprise Services and Security, and Peter Mosinskis, Director of IT Strategy, California State University, Channel Islands
## MONDAY

### 8:30 a.m.–12:00 noon (continued)

**Seminar 05A | Splunk Hands-On Workshop**  
**PENROSE 1, LOWER LEVEL 1**  
*Chris Kurtz*, System Architect, Arizona State University; *Mark Runals*, Senior Security Engineer, The Ohio State University

**Seminar 06A | Does Your Incident Response Program Make the Grade?**  
**MATTIE SILKS, LOWER LEVEL 1**  
*Steve Meckl*, Director, Americas Incident Response, and *Fred Unterberger*, Senior Director, Systems Engineering, Symantec Corporation

### 8:30 a.m.–4:30 p.m.

**FULL-DAY SEMINAR**  
*Please note: Separate registration and fee are required to attend the seminar.*

**Seminar 01F | SIEM and Tactical Analysis**  
**DENVER BALLROOM 4-6, LOWER LEVEL 2**  
*Justin Henderson*, Instructor and Course Author, The SANS Technology Institute

### 10:00–10:30 a.m.

**Refreshment Break for Preconference Seminar Participants and Corporate Displays**  
**COLORADO BALLROOM FOYER, LOWER LEVEL 2**
10:00 a.m.–3:00 p.m.

CORPORATE DISPLAYS
COLORADO BALLROOM FOYER, LOWER LEVEL 2
Sixteen companies will be showcasing security technology solutions for higher education with dedicated visiting time scheduled during the morning and afternoon breaks. Stop by to learn more about their solutions and interact with company representatives.

• Cisco Cloud Security
• ESET
• EventTracker
• Fischer International Identity
• GuidePoint Security
• Identity Automation
• Malwarebytes
• Moran Technology Consulting, Gold Partner
• OneLogin
• Palo Alto Networks, Bronze Partner
• SailPoint Technologies
• Splunk
• Trustwave
• Varonis Systems
• Yakabod
• Zscaler

12:00 noon–1:00 p.m.

Lunch for Preconference Seminar Participants
COLORADO BALLROOM A-F, LOWER LEVEL 2

12:00 noon–4:00 p.m.

Higher Education Information Security Council (HEISC) Advisory Committee Meeting
(By invitation only)
INDEPENDENCE, LOWER LEVEL 1
Afternoon Seminars

Please note: Separate registration and fee are required to attend seminars.

Seminar 01P | Lightweight Information Risk Assessment at The Ohio State University
DENVER BALLROOM 1-3, LOWER LEVEL 2
Jim Herbeck, Lead Security Analyst, The Ohio State University

Seminar 02P | PCI 201: Intermediate Topics and Futures
COLORADO BALLROOM IJ, LOWER LEVEL 2
Brad Judy, Information Security Officer, University of Colorado System

Seminar 03P | Lesson of the Golden Shovel
PENROSE 2, LOWER LEVEL 1
David Sherry, Chief Information Security Officer, Princeton University; Michael Duff, Chief Information Security Officer, Stanford University; Rachel Krinsky Rudnick, Assistant Director of Compliance/Privacy, University of Connecticut; Joshua Beeman, Chief Information Security Officer, University of Pennsylvania

Seminar 04P | Building a Culture of Digital Self-Defense
COLORADO BALLROOM GH, LOWER LEVEL 2
Ben Woelk, ISO Program Manager, Rochester Institute of Technology

Seminar 05P | Grokking SecOps Data with ELK
PENROSE 1, LOWER LEVEL 1
Kevin Wilcox, Security Specialist, Appalachian State University; Dan Boyd, Senior Network Architect, Berry College

Seminar 06P | Alerts Detect Possible Attacks: Intelligent Answers Resolve Actual Attacks
MATTIE SILKS, LOWER LEVEL 1
Christian Schreiber, Consulting Architect, FireEye; Tom Webb, Director Information Security Operations, University of South Carolina
2:30–3:00 p.m.

Refreshment Break for Preconference Seminar Participants and Corporate Displays
COLORADO BALLROOM FOYER, LOWER LEVEL 2
See page 13 for a list of corporate displays.

4:45–5:30 p.m.

“Now What Do I Do?” Welcome and Orientation for First-Time Attendees
DENVER BALLROOM 1-3, LOWER LEVEL 2
Brian Kelly, Chief Information Security Officer, Quinnipiac University; Lanita Collette, Chief Information Security Officer, The University of Arizona

5:30–6:45 p.m.

Happy Hour Meet-Up Receptions
Hosted by FireEye
PENROSE 1, LOWER LEVEL 1
Hosted by Lookout
PENROSE 2, LOWER LEVEL 1
Hosted by Prevalent
MATTIE SILKS, LOWER LEVEL 1

6:00–8:00 p.m.

2017 Program Committee Dinner
(By invitation only)
MONDAY

8:00–10:00 p.m.

BIRDS-OF-A-FEATHER SESSIONS (BOFS)
DENVER BALLROOM 1-3, LOWER LEVEL 2
Join colleagues this evening to discuss hot topics in an informal setting. You’ll be able to network and exchange ideas, insights, and experiences.
Topics include:
• Centers of Academic Excellence and Collaboration Opportunities
• Enabling Campus Police with Real-Time Location Data
• Grow Them and Keep Them
• HECVAT Feedback
• How to Get the Most Out of Vendor Relationships
• Internet2 Services Hub
• REN-ISAC Membership Services and Engagement
• Security Governance on Campus
May 2, 2017

7:00–8:00 a.m.

📅 Breakfast and Informal Networking Meet-Ups

_Sponsored by CrowdStrike_

**COLORADO BALLROOM A-F, LOWER LEVEL 2**

Join colleagues over breakfast for informal networking and discussion. Groups will be hosted at designated tables so you can network with those who share similar interests or responsibilities and discuss topics of particular interest to you.

Topics include:
- Aspiring IT/InfoSec Managers
- Career Transition
- Cloud Security
- Community Colleges
- First-Timers
- Internet2 Services Hub
- Phishing Response/Tools
- Security Awareness
- Small Colleges
- Tech Talk
- Women in IT and Allies

7:00 a.m.–5:30 p.m.

Registration Desk Open

**COLORADO BALLROOM FOYER, LOWER LEVEL 2**

Connect Lounge

**MATTIE SILKS, LOWER LEVEL 1**

8:00–9:00 a.m.

**CONCURRENT SESSIONS**

Awareness and Training

レン UNDERSTANDING AN IT SECURITY “Academy” (from the Ground Up)

**COLORADO BALLROOM GH, LOWER LEVEL 2**

Phillip Batton, Senior Security Analyst, and Cara Bonnett, IT Security Analyst, Duke University
TUESDAY

8:00–9:00 a.m. (continued)

Career and Workforce Development

🔗 Starting a New Security Program (Again)
COLORADO BALLROOM IJ, LOWER LEVEL 2
Andrew Weisskopf, Chief Information Security Officer, Binghamton University

Cyber Threat Intelligence

🔗 Making Threat Intelligence Work for You
PENROSE 1, LOWER LEVEL 1
Kevin Cheek, University Incident Response Lead, and Matthew Coons, Incident Responder and Threat Analyst, University of Michigan-Ann Arbor

Governance, Risk, Compliance, and Audit

🔗 Charting a Course for Research Project NIST 800-171 Compliance
PENROSE 2, LOWER LEVEL 1
Sean McKay, CISO, and Mario Navarro Palos, Information Security Officer, Portland State University

Technologies, Operations, and Practices

🔗 Automating and Delegating Access Controls Using Grouper
DENVER BALLROOM 4-6, LOWER LEVEL 2
Pregash Devasagayam, Identity and Access Management Application Administrator, Kerry Havens, Identity and Access Program Manager, and Marwan Shaher, IT Professional, University of Colorado Boulder

🔗 Incident Response at Global Scale in Research and Education Federations
DENVER BALLROOM 1-3, LOWER LEVEL 2
Nicholas Roy, Director of Technology and Strategy, InCommon, Internet2; Helen Patton, Chief Information Security Officer, The Ohio State University
9:15–10:15 a.m.

GENERAL SESSION
The Past, Present, and Future of InfoSec
COLORADO BALLROOM A-F, LOWER LEVEL 2
Jack Daniel, Strategist, Tenable Network Security

We cannot understand where we are going unless we know where we are and how we got here. This presentation will begin with a look back at some of the people and ideas that helped found the practice of information security—the proverbial shoulders on which we stand today. From the past to the present, focus will shift to a discussion of the current state of information (in)security and its implications for the practice of information security in today’s highly dynamic, highly connected world.

10:15–11:00 a.m.

Refreshment Break and Corporate Displays
COLORADO BALLROOM FOYER, LOWER LEVEL 2

10:15 a.m.–6:30 p.m.

CORPORATE DISPLAYS
COLORADO BALLROOM FOYER, LOWER LEVEL 2
Sixteen companies will be showcasing security technology solutions for higher education with dedicated visiting time scheduled during the morning and afternoon breaks. Stop by to learn more about their solutions and interact with company representatives.

- Cisco Cloud Security
- ESET
- EventTracker
- Fischer International Identity
- GuidePoint Security
- Identity Automation
- Malwarebytes
- Moran Technology Consulting, Gold Partner
- OneLogin
- Palo Alto Networks, Bronze Partner
- SailPoint Technologies
- Splunk
- Trustwave
- Varonis Systems
- Yakabod
- Zscaler
TUESDAY

11:00 a.m.–12:00 noon

CONCURRENT SESSIONS

Awareness and Training

The Three C’s to a Secure Culture
COLORADO BALLROOM GH, LOWER LEVEL 2
Lance Spitzner, Director, The SANS Technology Institute

Career and Workforce Development

Conversations with Chief Executives: When to Not Get Your Geek On
COLORADO BALLROOM IJ, LOWER LEVEL 2
Todd Watson, Information Security Officer, Board of Regents of the University System of Georgia

Cyber Threat Intelligence

Security Programs: Where Are All the Puzzle Pieces?
PENROSE 1, LOWER LEVEL 1
Todd W. Herring, Membership Services Director, REN-ISAC, and Kim Milford, Executive Director, REN-ISAC, Indiana University

Governance, Risk, Compliance, and Audit

Conducting a Campus Cybersecurity Tabletop Exercise
PENROSE 2, LOWER LEVEL 1
Wyman Miles, Chief Information Security Officer, Cornell University; Richard Biever, CISO, Duke University

Technologies, Operations, and Practices

Beyond Passwords: A Discussion on How Campuses Are Successfully Deploying Multifactor Authentication
DENVER BALLROOM 1-3, LOWER LEVEL 2
Jon Allen, Assistant Vice President and Chief Information Security Officer, Baylor University; Momi Ford, Interim Client Support Director and Support Center Manager, Indiana University; Brad Rohrer, Deputy CIO, Infrastructure and Operations, University of Miami; Randy Marchany, University IT Security Officer, Virginia Tech

Put a SOC in It: Building a Security Operations Center
DENVER BALLROOM 4-6, LOWER LEVEL 2
Christopher Craig, Principal Info Security Engineer, Georgia Institute of Technology; Daniel Basile, Executive Director, Texas A&M Health Science Center; Jason Belford, Chief Information Security Officer, University of Virginia
12:00 noon–1:00 p.m.

יו Lunch
Sponsored by Palo Alto Networks, Bronze Partner
COLORADO BALLROOM A-F, LOWER LEVEL 2

1:00–2:30 p.m.

CONCURRENT SESSIONS
Awareness and Training

Simulating Social Engineering Attacks
COLORADO BALLROOM GH, LOWER LEVEL 2
Andrew Bjerken, Chief Information Security Officer and Chief Privacy Officer, Northern Illinois University; Kim Cary, Chief Information Security Officer, Pepperdine University; Martin Manjak, Information Security Officer, University at Albany, SUNY; Brad Judy, Information Security Officer, University of Colorado System

Career and Workforce Development

What Is a Strategic CISO, and What Do You Need to Be One?
COLORADO BALLROOM IJ, LOWER LEVEL 2
Donald J. Welch, Chief Information Security Officer, The Pennsylvania State University

Cyber Threat Intelligence

Trend Analysis and Information Sharing: Cyber Threat Information Sharing Panel
PENROSE 1, LOWER LEVEL 1
Joanna Lyn Grama, Director of Cybersecurity and IT GRC Programs, EDUCAUSE and representatives from the FBI, Department of Homeland Security, and Secret Service

Governance, Risk, Compliance, and Audit

Exploring the Future of Cloud Vendor Security Assessments
PENROSE 2, LOWER LEVEL 1
Jon Allen, Assistant Vice President and Chief Information Security Officer, Baylor University; Laura Raderman, Policy and Compliance Coordinator, Carnegie Mellon University; Charles Escue, Lead Security Analyst, Indiana University Bloomington; Nick Lewis, NET+ Program Manager, Security and Identity, Internet2; Mitchell Parks, Information Security Officer, University of Idaho
TUESDAY

1:00–2:30 p.m. (continued)

Technologies, Operations, and Practices

Fun with Certificates, Part II: Elliptic Curve Cryptography
DENVER BALLROOM 4-6, LOWER LEVEL 2
Brian Epstein, Manager, Network and Security, Institute for Advanced Study

Zero to Splunk in Six Months: Threat Learning, Machine Hunting, and Anomaly Intelligence
DENVER BALLROOM 1-3, LOWER LEVEL 2
Jeffrey Collyer, Information Security Engineer, Michael Grinnell, Deputy CISO, Christina Joseph, Solutions Architect, Enterprise Infrastructure, University of Virginia

2:30–3:15 p.m.

Meet with EDUCAUSE, Internet2, and REN-ISAC Staff
COLORADO BALLROOM FOYER, LOWER LEVEL 2
Joanna Lyn Grama, Director of Cybersecurity and IT GRC Programs, and Valerie M. Vogel, Senior Manager, Cybersecurity Program, EDUCAUSE; Todd W. Herring, Membership Services Director, and Kim Milford, Executive Director, REN-ISAC, Indiana University; Andrew Keating, Director, Cloud Services, Nick Lewis, NET+ Program Manager, Security and Identity, Nicholas Roy, InCommon Director of Technology and Strategy, Internet2

Refreshment Break and Corporate Displays
COLORADO BALLROOM FOYER, LOWER LEVEL 2
See page 19 for a list of corporate displays.

3:15–4:15 p.m.

INDUSTRY AND CAMPUS SOLUTIONS
Cyber Threat Intelligence

Let’s Go Phishing in the Wild OAuth Seas
DENVER BALLROOM 4-6, LOWER LEVEL 2
Brendan O’Connell, Presales Consultant, Cisco Cloud Security; Aaron Baillio, Managing Director, Security Operations and Architecture, University of Oklahoma

Governance, Risk, Compliance, and Audit

Insiders Are the New Malware
COLORADO BALLROOM GH, LOWER LEVEL 2
Brian Kelly, Chief Information Security Officer, Quinnipiac University; Steve Gold, Regional Sales Director, Varonis Systems
Technologies, Operations, and Practices

**Change Is Simply an Act of Survival: Securing Your Network Today and Into the Future**
PENROSE 1, LOWER LEVEL 1
Bil Harmer, Strategist, Office of the CISO, Zscaler

**Managing Information Security with Decentralized IT Operations**
COLORADO BALLROOM IJ, LOWER LEVEL 2
Andrew Johnson, Practice Director, Threat and Attack Simulation, GuidePoint Security;
Brian Markham, Assistant Vice President, Information Security and Compliance Services, The George Washington University

**Myths in Information Security**
DENVER BALLROOM 1-3, LOWER LEVEL 2
Tina Thorstenson, Assistant Vice President and Chief Information Security Officer, Arizona State University; Mark Loveless, Senior Security Researcher, Duo Security

**A Trojan Horse of a Different Color: Managing External User Access Securely**
PENROSE 2, LOWER LEVEL 1
Tim Till, Principal Sales Consultant, Identity Automation

4:30–5:30 p.m.

**CONCURRENT SESSIONS**

**Awareness and Training**

**Building a Successful Cybersecurity Awareness Program**
COLORADO BALLROOM GH, LOWER LEVEL 2
Mary Evansen, Communications Manager, and Ed Jalinske, Director of Cybersecurity Education and Awareness, University of Wisconsin-Madison

**Career and Workforce Development**

**Building the Cyber Workforce in Higher Education: Security Internships at Ohio State**
COLORADO BALLROOM IJ, LOWER LEVEL 2
Helen Patton, Chief Information Security Officer, and John Sparks, Security Intern, The Ohio State University
TUESDAY

4:30–5:30 p.m. (continued)

Cyber Threat Intelligence

Beyond the Bootstrap: Next Steps for a Threat-Intelligence Program
PENROSE 1, LOWER LEVEL 1
Jesse Bowling, Manager of Security Operations and Engineering, Duke University

Governance, Risk, Compliance, and Audit

The Loch Ness Monster, Big Foot, and Successful IT Risk Assessments—Which Have You Found?
PENROSE 2, LOWER LEVEL 1
Christopher Oswald, Assistant Director, IT Audit, and David Sherry, Chief Information Security Officer, Princeton University

Technologies, Operations, and Practices

One Phish, Two Phish, Red Phish, Blue Fraud
DENVER BALLROOM 1-3, LOWER LEVEL 2
Gary Burkholder, Information Assurance Analyst, Ruth Cannon, Information Assurance Analyst, Erin Fogarty, Information Assurance Analyst, Michael Maltbie, Information Assurance Analyst, and Thomas Siu, Chief Information Security Officer, Case Western Reserve University

Watch the Hacker Hack
DENVER BALLROOM 4-6, LOWER LEVEL 2
Greg Knaddison, Product Engineer, CARD.com and Advisory Board Member, Drupal Association; Michael L Hess, Solution Architect Lead and Adjunct Lecturer in Information, University of Michigan-Ann Arbor

5:30–6:30 p.m.

Reception
COLORADO BALLROOM A-D AND FOYER, LOWER LEVEL 2
One of the most valuable aspects of this conference is the opportunity to connect face-to-face with fellow participants. Join us for the reception, where you can relax over food and drink and get to know your colleagues. A cash bar will be available; each attendee will receive one drink ticket.

NOTE: Please wear your name badge for admittance.
6:30–7:30 p.m.

**PGP Key Signing**
COLORADO BALLROOM GH, LOWER LEVEL 2

**Don Becker**, Senior Information Security Engineer, Adelphi University; **Brian Epstein**, Manager, Network and Security, Institute for Advanced Study; **Ken Connelly**, Director, Information Security, University of Northern Iowa

Additional information about this PGP key signing activity for all interested conference attendees is available at [www.ren-isac.net/events/educause_security17_keysigning.html](http://www.ren-isac.net/events/educause_security17_keysigning.html). Questions about this event should be directed to the presenters.

8:00–10:00 p.m.

**Trivia Night**
DENVER BALLROOM 4-6, LOWER LEVEL 2

**Don Becker**, Senior Information Security Engineer, Adelphi University; **Warren Raquel**, SecOps and IR at NCSA, University of Illinois at Urbana-Champaign

8:00–11:59 p.m.

**Get Your Game On!**

*Sponsored by Rapid7*
DENVER BALLROOM 1-3, LOWER LEVEL 2

**Brian Smith-Sweeney**, Chief Information Security Officer, Columbia University; **Gabriel Deleon**, Principal Security Engineer, REN-ISAC; **Warren Raquel**, SecOps and IR at NCSA, University of Illinois at Urbana-Champaign
WEDNESDAY

May 3, 2017

6:00–6:45 a.m.

**Fun Run**
MEET IN HOTEL LOBBY
*Joshua Beeman*, Chief Information Security Officer, University of Pennsylvania

**Photo Walk**
MEET IN HOTEL LOBBY
*Brad Judy*, Information Security Officer, University of Colorado System

7:00–8:00 a.m.

📅 **2018 Program Committee Breakfast**
(By invitation only)
INDEPENDENCE, LOWER LEVEL 1

🍽 **Breakfast and Informal Networking Meet-Ups**
Sponsored by Akamai Technologies
COLORADO BALLROOM A-F, LOWER LEVEL 2
Join colleagues over breakfast for informal networking and discussion. Groups will be hosted at designated tables so you can network with colleagues by geographic region:
- Mid-Atlantic
- Midwest
- Northeast
- Northwest
- Southeast
- Southwest/West
- International

7:00 a.m.–12:30 p.m.

**Registration Desk Open**
COLORADO BALLROOM FOYER, LOWER LEVEL 2

**Connect Lounge**
MATTIE SILKS, LOWER LEVEL 1
WEDNESDAY

8:00–9:00 a.m.

CONCURRENT SESSIONS

Awareness and Training

Security Awareness: A Hero’s Journey
COLORADO BALLROOM GH, LOWER LEVEL 2
Steven Cardinal, Senior Information Security Analyst, Medical University of South Carolina

Career and Workforce Development

What’s Next for the CISO?
COLORADO BALLROOM IJ, LOWER LEVEL 2
Wyman Miles, Chief Information Security Officer, Cornell University; Michael Corn, Chief Information Security Officer, University of California San Diego

Cyber Threat Intelligence

“How to Win Friends and Influence People” with an Effective Threat-Confidence Model
PENROSE 1, LOWER LEVEL 1
James Perry, Chief Information Security Officer, and Tom Webb, Director Information Security Operations, University of South Carolina

Governance, Risk, Compliance, and Audit

You’ve Identified Security Risks with a SaaS Vendor: So What? Leverage Your Consulting Skills
SPRUCE, SECOND FLOOR
Sandra Silk, Director, IT Security Education and Consulting, Harvard University

Technologies, Operations, and Practices

Building My Bro: How Bro Grew Up and What It Can Do Now
DENVER BALLROOM 4-6, LOWER LEVEL 2
Aaron Baillio, Managing Director, Security Operations and Architecture, University of Oklahoma

Update on Implementing the 20 Critical Controls
DENVER BALLROOM 1-3, LOWER LEVEL 2
Randy Marchany, University IT Security Officer, Virginia Tech
WEDNESDAY

9:10–10:10 a.m.

CONCURRENT SESSIONS

Awareness and Training

🔺 Taking Control of Your Application Security
COLORADO BALLROOM GH, LOWER LEVEL 2
Eric Johnson, Application Security Curriculum Manager, SANS Institute

Cyber Threat Intelligence

🔺 Dissembling Ferret: A Free/Open-Source Firewall Testing Suite
PENROSE 1, LOWER LEVEL 1
Justin C. Klein Keane, Security Architect, Main Line Health; Clay Wells, Information Security Engineer, University of Pennsylvania

Governance, Risk, Compliance, and Audit

🔺 Effective Security Spending in Higher Education
SPRUCE, SECOND FLOOR
Cathy Hubbs, Chief Information Security Officer, American University; Joanna Lyn Grama, Director of Cybersecurity and IT GRC Programs, EDUCAUSE

Privacy

🔺 InfoSec for Researchers: Data Management, Privacy, and Security
COLORADO BALLROOM IJ, LOWER LEVEL 2
Ingrid Skoog, Lead InfoSec Consultant, Harvard University

Technologies, Operations, and Practices

🔺 Leveraging Cloud Services for NIST SP 800-171
DENVER BALLROOM 4-6, LOWER LEVEL 2
Jason Stein, IT Research Security Analyst, ISSM, Purdue University

🔺 Someone Is Already Scanning Your Network...May as Well Be You: Beginning Weekly Vulnerability Assessments
DENVER BALLROOM 1-3, LOWER LEVEL 2
Max R.D. Parmer, Server Security Specialist, Portland State University
WEDNESDAY

10:10–10:20 a.m.

ически Break
COLORADO BALLROOM FOYER, LOWER LEVEL 2

10:20–11:20 a.m.

CONCURRENT SESSIONS
Awareness and Training

Is Security Awareness Training Working?
COLORADO BALLROOM GH, LOWER LEVEL 2
Monte Ratzlaff, Director, Cyber-Risk Program, University of California, Office of the President

Cyber Threat Intelligence

Honeypots for Easy Threat-Intelligence Wins
POMEROY, THIRD FLOOR
Nicholas Tripp, Senior Security Analyst, Duke University

Governance, Risk, Compliance, and Audit

Developing a Comprehensive Security Policy and Risk-Management Strategy for a Public Research University
SPRUCE, SECOND FLOOR
Robert Smith, Systemwide IT Policy Director, University of California, Office of the President

Privacy

Data Security and Privacy Agreements for Managing Vendor Risk
COLORADO BALLROOM IJ, LOWER LEVEL 2
William Li, Senior Security Advisor, University of Washington

Additional project contributors: Ann Nagel, Institutional Privacy Officer, and Braden Vinroe, Information Security Consulting Manager, University of Washington

Technologies, Operations, and Practices

Grocking SecOps Data with ELK
DENVER BALLROOM 4-6, LOWER LEVEL 2
Kevin Wilcox, Security Specialist, Appalachian State University; Dan Boyd, Senior Network Architect, Berry College
WEDNESDAY

10:20–11:20 a.m. (continued)

Stanford University: A Practical Guide to Protecting Your High Value Systems
DENVER BALLROOM 1-3, LOWER LEVEL 2

11:30 a.m.–12:30 p.m.

CLOSING GENERAL SESSION
So You Wanna Be a Higher Ed CISO? Understanding What It Takes to Get There and Stay
Sponsored by Spirion
COLORADO BALLROOM A-F, LOWER LEVEL 2
Being a higher education CISO is not for the fainthearted. Supporting the teaching, learning, and research missions of academic institutions is both challenging and rewarding. In this interactive session, established higher ed CISOs will explore the state of higher education risk management and information security programs and probe the skills, leadership pathways, and career opportunities available as higher education information security programs continue to evolve.
Cathy Hubbs, Chief Information Security Officer, American University; Tina Thorstenson, Assistant Vice President and Chief Information Security Officer, Arizona State University; Neal Fisch, Information Security Officer and Director, Enterprise Services and Security, California State University, Channel Islands; Joshua Beeman, Chief Information Security Officer, University of Pennsylvania; Randy Marchany, University IT Security Officer, Virginia Tech
CORPORATE DIRECTORY

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Akamai Technologies
Participation: Wednesday Breakfast Sponsor
Ken Klestinec, Major Account Executive
kklestine@akamai.com, 424-365-3556
www.akamai.com
Product Categories: Application Security; Cloud Security; Threat Intelligence

Cisco Cloud Security
Participation: Corporate Display; Presentation
Kelly Meadows, Field Event Marketeer
kelmead@cisco.com, 415-344-3250
umbrella.cisco.com
Product Category: Cloud Security

CrowdStrike
Participation: Tuesday Breakfast Sponsor
James Saunders, State, Local and Education Sales Manager
james.saunders@crowdstrike.com, 617-291-5177
www.crowdstrike.com
Product Categories: Incident Handling and Response; Network Security; Threat Intelligence

Duo Security
Participation: Presentation
Jamie Long, Account Executive, EDU West
jlong@duo.com, 866-760-4247
duo.com
Product Categories: Authentication; Cloud Security; Identity and Access Management

Eaton
Participation: Hotel Door Drop Sponsor
Melinda Pfennning, Business Development Manager
MelindaSPfennning@eaton.com, 949-375-0263
www.eaton.com/massnotification
Product Categories: Business Continuity Planning; Critical Infrastructure Protection; Disaster Recovery Planning

Epson
Gold Partner
Participation: Projector Sponsor
Jeff Greenlee, Commercial Channel Manager
Jeff_greenlee@ea.epson.com, 562-981-3840
www.epson.com/brighterfutures
Product Categories: Digital Signage; Hardware; Wireless

ESET
Participation: Corporate Display
Kristen Hinsberger, Senior Program Events Manager
events@eset.com, 619-876-5433
www.eset.com
Product Categories: Encryption; Mobile Security; Threat Intelligence

EventTracker
Participation: Corporate Display
EventTracker Sales
sales@eventtracker.com, 877-333-1433 x1
www.eventtracker.com
Product Categories: Compliance; Network Security; Threat Intelligence

FireEye
Participation: Happy Hour Meet-Up Reception Sponsor; Notepad and Pen Sponsor; Preconference Seminar; Print Program Sponsor
Tom Gosse, Director Region Sales, SLED
thomas.gosse@fireeye.com, 603-413-5399
www.fireeye.com
Product Categories: Incident Handling and Response; Intrusion Detection and Prevention; Vulnerability Assessment and Management

Fischer International Identity
Participation: Corporate Display
Chuck Donnelly, Vice President of Sales
cbd@fischerinternational.com, 508-523-9909
www.fischerinternational.com
Product Categories: Cloud Security; Federated Identity Management; Identity and Access Management
GuidePoint Security
Participation: Corporate Display; Presentation
Andrew Johnson, Practice Director, Security Assessments
andrew.johnson@guidepointsecurity.com, 651-707-7036
www.guidepointsecurity.com
Product Categories: Compliance; Incident Handling and Response; Security Assessment

Identity Automation
Participation: Corporate Display; Presentation
Higher Ed Sales
sales@identityautomation.com, 877-221-8401
www.identityautomation.com
Product Categories: Authentication; Federated Identity Management; Identity and Access Management

Jenzabar
Platinum Partner
Participation: Corporate Display
Pete Denly, Business Development Lead
Peter.denly@jenzabar.com, 617-492-9099
www.jenzabar.com
Product Categories: Cloud Computing and Services; Enterprise Resource Planning (ERP), Student Information Systems

Lookout
Participation: Happy Hour Meet-Up Reception Sponsor
Jennifer Svensson, Director, SLED
jennifer.svensson@lookout.com, 301-335-3561
www.lookout.com
Product Categories: Application Security; Mobile Security; Network Security

Malwarebytes
Participation: Corporate Display
Education Sales
edusales@malwarebytes.com, 800-520-2796
www.malwarebytes.com/education
Product Categories: Data Security; Incident Handling and Response; Threat Intelligence

McAfee
Participation: Mobile App Sponsor
Higher Education Sales
sales@mcafee.com, 888-847-8766
Product Categories: Cloud Security; Data Security; Security Implementation

Moran Technology Consulting
Gold Partner
Participation: Corporate Display
Scott Weyandt, Director, IT Security and Infrastructure
scott.weyandt@morantechnology.com, 312-320-0035
www.morantechnology.com
Product Categories: Identity and Access Management; IT Risk Assessment; Security Assessment

OneLogin
Participation: Corporate Display
Christine Johnston, Mid-Market Account Executive
christine.johnston@onelogin.com, 415-528-5342
www.onelogin.com
Product Categories: Application Security; Cloud Security; Identity and Access Management

Palo Alto Networks
Bronze Partner
Participation: Corporate Display; Lunch Sponsor
Monique Vandamme-Wildt, Marketing
mvandamme@paloaltonetworks.com, 972-567-1791
www.paloaltonetworks.com
Product Categories: Cloud Security; Network Security; Threat Intelligence

Prevalent
Participation: Happy Hour Meet-Up Reception Sponsor
Devin Archer, Vice President Channel and Vertical Markets
darcher@prevalent.net, 718-781-8003
www.prevalent.net
Product Categories: Risk Management; Threat Intelligence; Vendor Management
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<td><a href="mailto:sales@rapid7.com">sales@rapid7.com</a>, 866-7-Rapid7, <a href="http://www.rapid7.com">www.rapid7.com</a></td>
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