SANS 2019
Orlando, FL | April 1-8
#SANS2019   @SANSInstitute

Program Guide
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- Labs
- Subject-matter-expert support

**COURSES AVAILABLE:**

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To receive the discounted rate, you must sign up before Monday, April 15 at 8:00pm EDT

Add to your order via your Portal Account: www.sans.org/account/login

Call or e-mail SANS Registration:
1-301-654-SANS (7267) | registration@sans.org

SANS 2019 | Orlando, FL | April 1-8, 2019
**Event Check-In | Badge & Courseware Distribution**  
*Regency R (Convention Level)*  
Sun, March 31 ................................. 5:00pm – 7:00pm  
Mon, April 1 ................................ 7:00am – 9:00am

**Registration Support**  
*Registration Desk (Convention Level)*  
Mon, April 1 ................................ 9:00am – 7:00pm  
Tue, April 2 – Fri, April 5 ................. 8:00am – 5:00pm  
Sat, April 6 .................................. 8:00am – 2:00pm  
Sun, April 7 .................................. 8:00am – 12:00pm  
  *Silver Spring II (Convention Level)*  
Mon, April 8 .................................. 9:00am – 5:00pm

**Internet Café**  
*Regency Rotunda (Convention Level)*  
Mon, April 1 ................................. Opens at Noon  
Tue, April 2 – Fri, April 5 ................. Open 24 hours  
Sat, April 6 .................................. Closes at 2:00pm

**Course Times**  
*All full-day courses will run 9:00am - 5:00pm (unless noted)*

**Course Breaks**  
Morning Coffee .......................... 7:00am – 9:00am  
Morning Break ............................ 10:30am – 10:50am  
Lunch *(on your own)* .................... 12:15pm – 1:30pm  
Afternoon Break ......................... 3:00pm – 3:20pm

**Photography Notice**  
SANS may take photos of classroom activities for marketing purposes. SANS 2019 attendees grant SANS all rights for such use without compensation, unless prohibited by law.

**Feedback Forms and Course Evaluations**  
The SANS planning committee wants to know what we should keep doing and what we need to improve – but we need your help! Please take a moment to fill out an evaluation form after each course day and bonus session and drop it in the evaluation box.

**Wear Your Badge**  
To confirm you are in the right place, SANS Work-Study participants will be checking your badge for each course and event you enter. For your convenience, please wear your badge at all times.

**Bootcamp Sessions and Extended Hours**  
The following classes have evening bootcamp sessions or extended hours. For specific times, please refer to pages 4-7.

**Bootcamps (Attendance Mandatory)**  
**SEC401:** Security Essentials Bootcamp Style  
**SEC503:** Intrusion Detection In-Depth  
**SEC511:** Continuous Monitoring and Security Operations  
**SEC555:** SIEM with Tactical Analytics  
**SEC660:** Advanced Penetration Testing, Exploit Writing, and Ethical Hacking  
**SEC760:** Network Penetration Testing and Ethical Hacking  
**FOR526:** Advanced Memory Forensics & Threat Detection  
**MGT414:** SANS Training Program for CISSP® Certification

**Extended Hours:**  
**SEC455:** SIEM Design & Implementation  
**SEC501:** Advanced Security Essentials – Enterprise Defender  
**SEC504:** Hacker Tools, Techniques, Exploits & Incident Handling  
**SEC560:** Advanced Exploit Development for Penetration Testers  
**SEC760:** Advanced Exploit Development for Penetration Testers  
**FOR526:** Advanced Memory Forensics & Threat Detection  
**MGT414:** SANS Training Program for CISSP® Certification
START DATE: **Monday, April 1**
Time: 9:00am - 5:00pm (Unless otherwise noted)

**SEC301: Introduction to Cyber Security**
Keith Palmgren ................ Windermere Z (CONVENTION LEVEL)

**SEC401: Security Essentials Bootcamp Style**
Bryan Simon ................ Regency S (CONVENTION LEVEL)
Bootcamp Hours: 5:00pm - 7:00pm (Course days 1-5)

**SEC460: Enterprise Threat and Vulnerability Assessment**
Tim Medin ................ Rock Spring (LOBBY LEVEL)

**SEC487: Open-Source Intelligence (OSINT) Gathering and Analysis**
Micah Hoffman ................ Celebration 3 (CONVENTION LEVEL)

Paul A. Henry ................ Celebration 2 (CONVENTION LEVEL)
Extended Hours: 5:00pm - 7:00pm (Course day 1)

**SEC503: Intrusion Detection In-Depth**
David Hoelzer ................ Celebration 5 (CONVENTION LEVEL)
Bootcamp Hours: 5:00pm - 7:00pm (Course days 1-5)

**SEC504: Hacker Tools, Techniques, Exploits & Incident Handling**
John Strand ................ Windermere W (CONVENTION LEVEL)
Extended Hours: 5:00pm - 7:15pm (Course day 1)

**SEC505: Securing Windows and PowerShell Automation**
Jason Fossen ................ Celebration 12/13 (CONVENTION LEVEL)

**SEC506: Securing Linux/Unix**
Hal Pomeranz ................ Celebration 1 (CONVENTION LEVEL)

**SEC511: Continuous Monitoring and Security Operations**
Eric Conrad ................ Rainbow Spring (CONVENTION LEVEL)
Bootcamp Hours: 5:15pm - 7:00pm (Course days 1-5)

**SEC530: Defensible Security Architecture**
Ismael Valenzuela ........... Bayhill 29/30 (LOBBY LEVEL)

**SEC540: Secure DevOps and Cloud Application Security**
Eric Johnson ................ Bayhill 31/32 (LOBBY LEVEL)

**SEC542: Web App Penetration Testing and Ethical Hacking**
Moses Frost .................... Manatee Spring I (LOBBY LEVEL)

**SEC545: Cloud Security Architecture and Operations**
Dave Shackleford ........... Celebration 14/15 (CONVENTION LEVEL)

**SEC555: SIEM with Tactical Analytics**
Justin Henderson ........ Celebration 4 (CONVENTION LEVEL)
Bootcamp Hours: 5:15pm - 7:00pm (Course days 1-5)

**SEC560: Network Penetration Testing and Ethical Hacking**
Ed Skoudis ................ Windermere X (CONVENTION LEVEL)
Extended Hours: 5:00pm - 7:15pm (Course day 1)
Extended hours will be led by John Strand and held in the SEC504 classroom located in Windermere W (CONVENTION LEVEL)

**SEC566: Implementing and Auditing the Critical Security Controls – In-Depth**
James Tarala ................ Manatee Spring II (LOBBY LEVEL)

**SEC573: Automating Information Security with Python**
Mark Baggett ........ Celebration 6 (CONVENTION LEVEL)

**SEC575: Mobile Device Security and Ethical Hacking**
Christopher Crowley ........ Celebration 11 (CONVENTION LEVEL)

**SEC599: Defeating Advanced Adversaries – Purple Team Tactics & Kill Chain Defenses**
Erik Van Buggenhout ........ Bayhill 28 (LOBBY LEVEL)

**SEC617: Wireless Penetration Testing and Ethical Hacking**
Joshua Wright ............... Coral Spring (LOBBY LEVEL)

**SEC642: Advanced Web App Penetration Testing, Ethical Hacking, and Exploitation Techniques**
Adrien de Beaupre .......... Barrel Spring II (LOBBY LEVEL)

**SEC650: Advanced Penetration Testing, Exploit Writing, and Ethical Hacking**
James Lyne ...................... Bayhill 27 (LOBBY LEVEL)
Bootcamp Hours: 5:00pm - 7:00pm (Course days 1-5)

**SEC660: Advanced Penetration Testing, Exploit Development for Penetration Testers**
Stephen Sims ............. Peacock Spring (LOBBY LEVEL)
Bootcamp Hours: 5:00pm - 7:00pm (Course days 1-5)

**FOR500: Windows Forensic Analysis**
Rob Lee ..................... Bayhill 17/18 (LOBBY LEVEL)

**FOR508: Advanced Incident Response, Threat Hunting, and Digital Forensics**
Chad Tilbury ................. Bayhill 23/24 (LOBBY LEVEL)

**FOR518: Mac and iOS Forensic Analysis and Incident Response**
Sarah Edwards ............... Barrel Spring I (LOBBY LEVEL)
<table>
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| **FOR526:** Advanced Memory Forensics & Threat Detection  
  Alissa Torres .................. Blue Spring II (CONVENTION LEVEL)  
  Bootcamp Hours: 5:00pm - 7:00pm (Course days 1-5) |
| **FOR572:** Advanced Network Forensics: Threat Hunting, Analysis, and Incident Response  
  Philip Hagen ...................... Bayhill 25/26 (LOBBY LEVEL) |
| **FOR578:** Cyber Threat Intelligence  
  Jake Williams ................. Windermere Y (CONVENTION LEVEL) |
| **FOR585:** Advanced Smartphone Forensics  
  Heather Mahalik .............. Celebration 16 (CONVENTION LEVEL) |
| **FOR610:** Reverse-Engineering Malware: Malware Analysis Tools and Techniques  
  Lenny Zeltser ................ Bayhill 22 (LOBBY LEVEL) |
| **MGT414:** SANS Training Program for CISSP® Certification  
  Seth Misenar .................. Bayhill 21 (LOBBY LEVEL)  
  Bootcamp Hours: 8:00am - 9:00am (Course days 2-6) &  
  5:00pm - 7:00pm (Course days 1-5) |
| **MGT512:** Security Leadership Essentials For Managers  
  G. Mark Hardy.............. Regency Ballroom U (CONVENTION LEVEL) |
| **MGT514:** Security Strategic Planning, Policy, and Leadership  
  Frank Kim .................. Regency Ballroom V (CONVENTION LEVEL) |
| **MGT525:** IT Project Management, Effective Communication, and PMP® Exam Prep  
  Jeff Frisk .................. Bayhill 19/20 (LOBBY LEVEL) |
| **LEG523:** Law of Data Security and Investigations  
  Benjamin Wright .......... Bayhill 33 (LOBBY LEVEL) |
| **DEV531:** Defending Mobile Applications Security Essentials  
  Gregory Leonard .......... Manatee Spring II (LOBBY LEVEL) |
| **ICS410:** ICS/SCADA Security Essentials  
  Justin Searle, Don C. Weber ...Regency Ballroom T (CONVENTION LEVEL) |
| **Hosted:** Measuring and Managing Cyber Risk Using FAIR  
  David Musselwhite .......... Discovery 45 (THIRD LEVEL) |
| **Hosted:** Physical Security Specialist – Full Comprehensive Edition  
  The CORE Group ............. Blue Spring I (CONVENTION LEVEL) |
Enrich your SANS experience!

Morning and evening talks given by our faculty and selected subject matter experts help you broaden your knowledge, get the most for your training dollar, and hear from the voices that matter in network and computer security.

Sunday, March 31

Special Event

SANS 2019 Welcome Reception

Sun, March 31 | 5:00pm – 7:00pm | Regency Foyer (CONVENTION LEVEL)

Kick off your SANS 2019 experience at the Welcome Reception taking place in the Regency Foyer. Be part of this kick off event and join the industry’s most powerful gathering of cybersecurity professionals. Share stories, make connections, and learn how to make the most of your week in Orlando, FL. Come join your colleagues for a fun, relaxing evening. Beverages and light bites will be served.

Monday, April 1

Special Event

General Session – Welcome to SANS

Speaker: Bryan Simon

Mon, April 1 | 8:00am – 8:30am | Regency S (CONVENTION LEVEL)

Join us for a 30-minute overview to help you get the most out of your SANS training experience. You will receive event information and learn about programs and resources offered by SANS. This brief session will answer many questions and get your training experience off to a great start. This session will be valuable to all attendees but is highly recommended for first time attendees.

Tuesday, April 2

Special Event

GIAC Overview Presentation

Speaker: Jeff Frisk

Tue, April 2 | 6:15pm – 7:00pm | Windermere X (CONVENTION LEVEL)

GIAC Certifications is the leading provider and developer of Information Security Certifications. GIAC tests and validates the ability of practitioners in cyber defense, pen testing, forensics, software security, management, and ICS. GIAC certification holders are recognized as experts in the IT industry and are sought after globally by government, military, and industry to protect the cyber environment. Join us for an informational presentation along with a Q&A session. We’ll cover everything from why you should get certified, what testing looks like, how to keep certifications current and more. GIAC Certifications staff will be present to answer your questions before and after the presentation.

Sans@Night

Moving Past Just Googling It: Harvesting and Using OSINT

Speaker: Micah Hoffman

Tue, April 2 | 7:15pm – 8:15pm | Regency T (CONVENTION LEVEL)

Every single day we search for things on the Internet. Defenders research a domain or IP that contains malware. Attackers look for email addresses for an upcoming phishing campaign. DFIR people examine locations and usernames that they acquired from a subject’s computer. Policy and compliance people examine the risk that employees in their organizations might bring to work. Recruiters scour the Internet looking for candidates. And normal people shop, date, geolocate, post, tweet, and otherwise send a huge amount of data to the public Internet. Come join Micah Hoffman as we examine how OSINT (Open-Source Intelligence) can reveal interesting content about your work and personal lives.

Keynote

Windows Exploratory Surgery with Process Hacker

Speaker: Jason Fossen

Mon, April 1 | 7:15pm – 9:15pm | Regency T (CONVENTION LEVEL)

In this talk, Jason Fossen, SANS Institute Fellow and SEC505 author, will rummage around inside the guts of Windows while on the lookout for malware, using a free tool named Process Hacker (similar to Process Explorer, but open-source). Understanding processes, threads, drivers, handles, and other OS internals is important for analyzing malware, understanding exploits, doing forensics, troubleshooting, and hardening the OS. If you have a laptop, get Process Hacker from http://processhacker.sourceforge.net and together we’ll take a peek under the GUI to learn about Windows internals. This talk also helps to prepare attendees for several of the courses at the conference by presenting key OS concepts like virtual memory, modules, security access tokens, and more.
Across the globe, all organizations are increasingly expected to respect data privacy. In Europe, this expectation is expressed in the general data protection regulation, GDPR. California has enacted a Consumer Privacy Act that is set to go into effect in 2020. The US Congress is actively debating national data privacy legislation. All organizations are motivated to adopt a culture of data privacy now.

**SANS@NIGHT**

**The Data Privacy Imperative**  
**Speaker:** Ben Wright  
**Tue, April 2 | 7:15pm – 8:15pm | Windermere X (CONVENTION LEVEL)**

Gary will share his incredible, true story of his pivot from being the victim of a 15-year series of covert attacks to becoming and advocate via his "Forrest Gump" journey into cybersecurity and the creator of The CyberHero Adventures: Defenders of the Digital Universe super hero comics. He will be available to autograph copies of the comic after his speech! View the digital comic to learn more.

**SANS@NIGHT**

**Let's Go Hunting Bad Guys**  
**Speaker:** John Strand  
**Tue, April 2 | 8:15pm – 9:15pm | Regency S (CONVENTION LEVEL)**

In this presentation John will share custom free tools to help you hunt bad guys inside and outside of your network...with awesomeness and math. But mostly math.

**SANS@NIGHT**

**Modern Information Security: Forget Cyber, It's All About AppSec**  
**Speaker:** Adrien de Beaupre  
**Tue, April 2 | 8:15pm – 9:15pm | Regency T (CONVENTION LEVEL)**

This discussion will focus on how modern information security has evolved and what we will need to move into the 21st century. We need a new paradigm in security with a workforce that understands application security: the new frontier.

**WEDNESDAY, APRIL 3**

**SPECIAL EVENT**

**Coffee and Donuts with the Graduate Students**  
**Wed, April 3 | 7:30am – 9:00am | Regency Rotunda (CONVENTION LEVEL)**

Get the inside scoop on what it’s like to pursue a graduate degree in cybersecurity from SANS from like-minded information security professionals currently enrolled in the SANS graduate programs. SANS’ regionally accredited graduate program, the SANS Technology Institute, combines SANS technical training and certifications, with leadership and management curriculum specifically designed for the unique needs of aspiring leaders. Find out how the class you’re taking this week may be applied towards a master’s degree or graduate certificate program. Visit www.sans.edu for complete information on curriculum, admissions, and funding options.

**SANS@NIGHT**

**How to Become an All-Round Defender: The Secret Sauce**  
**Speakers:** Justin Henderson & Ismael Valenzuela  
**Wed, April 3 | 7:15pm – 8:15pm | Windermere X (CONVENTION LEVEL)**

In this ever evolving and fast-paced environment, a security professional must be versatile and possess an arsenal of skills to protect an organization’s critical data. You must be an all-round defender. What does this mean? This means that you wear many hats and that you are probably in charge of cloud security, endpoint security, network security, application security, and all things cyber. So where do you start? How do you not only be successful but thrive as an all-round defender? Join Justin Henderson and Ismael Valenzuela, authors of the new SANS course SEC530: Defensible Security Architecture, to learn how to successfully design, implement and tune a layered defense approach, balancing detection, prevention and response capabilities. In this presentation you will learn what are some of the most common impediments to achieving a balance between network-centric and data-centric controls. This includes popular but often underutilized solutions like next-generation firewalls, flow data, cloud security and trying to protect custom applications.

**SANS@NIGHT**

**Come to the Dark Side: Python’s Sinister Secrets**  
**Speaker:** Mark Baggett  
**Wed, April 3 | 7:15pm – 8:15pm | Regency U (CONVENTION LEVEL)**

Python is in an incredible programming language that grants security super powers to those who know how to wield its might. But it has a sinister side that give evil attackers the ability to conquer the unwitting developer. Come to this talk to learn about Python’s history of vulnerabilities and quirks that make attackers do their happy dance.
Hands-On Information Security Challenges

All students who register for a 4-, 5-, or 6-day course will be eligible to play NetWars for FREE. Space is limited. Please visit the Registration Support desk to register today.

SANS@NIGHT

DevSecOps: Key Controls For Modern Security Success

Speaker: Eric Johnson

Wed, April 3 | 8:15pm – 9:15pm | Windermere X (CONVENTION LEVEL)

Modern development teams deliver features at a rapid pace using new technologies such as containers, microservices, and serverless functions. Operations and infrastructure teams support these rapid delivery cycles using infrastructure as code, test-driven infrastructure, and cloud automation. However, security teams are using traditional security approaches that don’t keep up with the rate of accelerated change. Security must be reinvented in a DevOps world by taking advantage of the opportunities provided by continuous integration and delivery pipelines. This talk will introduce attendees to five key phases of DevOps: pre-commit, commit, acceptance, production, and operations. In each phase, we identify the key security controls and discuss several open-source tools for implementing the controls. Attendees will walk away with a practical and modern approach for building a successful DevSecOps program.

SANS@NIGHT

Oh, You Got This? Practical Attacks on Modern Infrastructure

Speaker: Moses Frost

Wed, April 3 | 8:15pm – 9:15pm | Regency V (CONVENTION LEVEL)

Have you ever been on a Web Assessment, Bug Bounty, Pen Test, or Red Team and encountered a component that is using the latest frameworks, languages, libraries, or that is on the infrastructure? This presentation will provide a practical guide to approach these types of scenarios. Many of these technologies are strikingly new, and probably visually stunning, but are they entirely secure? This talk will explore concepts like Modernized Languages, Exposed In-Memory Databases, Proxies, Breaking Microservices, and more. We will show demos of how to abuse the latest architectures and frameworks. Follow Moses Frost as he breaks down the stuff that everyone else is just riding by, or discovering by accident. Let’s go attack the cloud people! This talk walks through the land of the cloud in a fun and storybook way. Let’s also figure out along the way how to break, attack, and pillage, for good.

SANS@NIGHT

CYA by Using CIA Correctly For A Change

Speaker: Keith Palmgren

Wed, April 3 | 8:15pm – 9:15pm | Regency U (CONVENTION LEVEL)

Everyone in cybersecurity has heard of the CIA triad. In fact, addressing Confidentiality, Integrity, and Availability as a triad of three equal parts is part of every cybersecurity book and class. But how many of us really have the resources to address all three of these in equal measure? Perhaps an even better question is, “Should you address these three in equal measure?” In most organizations, the answer is a resounding “NO!” But wait – it gets even more confusing! Should every department of your company address the elements of CIA in the same way? This time the answer is “Absolutely Not!” In this talk, Keith Palmgren explains how to apply CIA to your company, as well as to the individual departments of your company. Doing so will not only allow you to CYA (Cover Your Assets) but also make far better use of the limited resources available in your security program while doing so.
Vendor Solutions Expo

Wed, April 3 | 12:00pm - 1:30pm | 5:15pm - 7:15pm
Regency Rotunda (CONVENTION LEVEL)

All attendees are invited to meet with established and emerging solution providers as they reveal the latest tools and technologies critical to information security. The SANS Vendor Expo showcases product offerings from key technology providers in the commercial tools and services market. Vendors arrive prepared to interact with a technically savvy audience. You’ll find demonstrations and product showcases that feature all the best that the security industry has to offer!

Vendor-Sponsored Lunch Session

Wed, April 3 | 12:00pm-1:30pm | Regency Rotunda (CONVENTION LEVEL)

Sign up at the SANS vendor table to receive a ticket for a free lunch brought to you by sponsoring vendors. Please note, by accepting a lunch ticket your badge will be scanned and your contact information shared with the sponsoring vendors. Join these sponsoring vendors and others on the expo floor for an introduction to leading solutions and services that showcase the leading options in information security. Take time to browse the expo floor and get introduced to providers and their solutions that align with the security challenges being discussed in class.

Luncheon sponsors include:

Amazon Web Services
AnalystPlatform
Anomali
BluVector
Cisco Systems Inc.
Corelight
Crowdstrike
F5 Networks, Inc.
Fidelis Cybersecurity
Keysight

MobileIron
Pulse Secure
Qualys
Rapid 7
skopenow
Stellar Cyber
Swimlane
Uptycs
Venafi

Vendor-Sponsored Lunch & Learns

Since SANS course material is product neutral, these presentations provide the opportunity to evaluate vendor tools in an interactive environment to increase your effectiveness, productivity, and knowledge gained from the conference. These sessions feature a light meal or refreshments provided by the sponsor. Sign up is required for Vendor Events and space is limited. Please sign up at Vendor Registration.
Add a GIAC Certification with your SANS training at SANS 2019 and SAVE $330!

In the information security industry, certification matters. GIAC Certifications offer skills-based certifications that go beyond high-level theory and test true hands-on and pragmatic skill sets that are highly regarded.

Pay just $769 when you bundle your certification attempt with your SANS training course during SANS 2019 for a savings of $330!

After this event is over, the alumni bundle price goes to $1,099.

Stop by the Registration Support Desk or via your Portal Account www.sans.org/account/login?url=history to add your GIAC certification attempt before the last day of class for the discount.

Find out more about GIAC at www.giac.org or call 301-654-7267.
Sign into your SANS account to enjoy these free resources at www.sans.org/account

Newsletters
Weekly news headlines annotated with insights from SANS experts.

Internet Storm Center
The Internet’s early warning system.

Webcasts
Webcasts on trending topics by SANS faculty and partner organizations.

Many Other Free Resources
(SANS.org account not required)
- InfoSec Reading Room
- Top 25 Software Errors
- 20 Critical Controls
- Security Policies
- Intrusion Detection FAQs
- Tip of the Day
- Security Posters
- 20 Coolest Careers
- Security Glossary
- SCORE (Security Consensus Operational Readiness Evaluation)

2019 TRAINING EVENTS

Cloud Security Summit  San Jose, CA  Apr 29 – May 6
Pen Test Austin     Austin, TX  Apr 29 – May 4

Security West     San Diego, CA  May 9-16
N. VA Spring – Reston  Reston, VA  May 19-24
New Orleans    New Orleans, LA  May 19-24
MGT516 Beta Two  San Francisco, CA  May 20-24
Atlanta       Atlanta, GA  May 28 – Jun 2
San Antonio  San Antonio, TX  May 28 – Jun 2

Enterprise Defense Summit  Redondo Beach, CA  Jun 3-10
Kansas City    Kansas City, MO  Jun 10-15

SANSFIRE     Washington, DC  Jun 15-22

Security Operations Summit  New Orleans, LA  Jun 24 – Jul 1
Charlotte     Charlotte, NC  Jul 8-13
Pittsburgh    Pittsburgh, PA  Jul 8-13
Columbia     Columbia, MD  Jul 15-20
Rocky Mountain  Denver, CO  Jul 15-20
San Francisco Summer  San Francisco, CA  Jul 22-27
DFIR Summit  Austin, TX  Jul 25 – Aug 1
Boston Summer  Boston, MA  Jul 29 – Aug 3
Crystal City  Arlington, VA  Aug 5-10
Security Awareness Summit  San Diego, CA  Aug 5-14
San Jose     San Jose, CA  Aug 12-17
Minneapolis  Minneapolis, MN  Aug 12-17
Save the Date!

SANS 2020
Orlando, FL
April 5-10
Returning to the Hyatt Regency Orlando