ICSJWG
INDUSTRIAL CONTROL SYSTEMS JOINT WORKING GROUP

CISA
CYBER+INFRASTRUCTURE

TUESDAY, APRIL 23, 2019

7:45 – 8:35 a.m.	**CHECK-IN** **All times correspond to local time**			
8:35 – 9:00 a.m.	**Meeting Welcome and Opening Remarks** Janine Sheppard Events Lead Cybersecurity and Infrastructure Security Agency U.S. Department of Homeland Security			
9:00 – 9:45 a.m.	**PANEL** **Product Security and Vulnerability Disclosure** Jay Angus, Department of Homeland Security, Cybersecurity and Infrastructure Security Agency Megan Samford, Rockwell Automation Marcel Kulicke, Siemens Paul Forney, Schneider Electric			
9:45 – 10:05 a.m.	**BREAK**			
10:05 – 10:50 a.m.	**MAIN** **Challenges and Approaches for Securing Maritime Control System Environments** Scott Dickerson, CISO Mike George, root9B	**BREAKOUT 1** **Gaining an Operational Advantage with Full Fabric Deception Technology** Marc Feghali, Attivo Networks	**BREAKOUT 2** **The Hype, Hysteria, and Hyperbole of Critical Infrastructure Protection** Mark Weatherford, Aspen Chartered Barak Perelman, Indegy	**TECHNICAL WORKSHOP** **Developing your ICS Cyber Strategy** Jonathan Homer, CISA
11:00 – 11:45 a.m.	**MAIN** **TRITON Attribution: Russian Government-Owned Research Institute Built Custom Tools for Attackers** Daniel Kapellmann Zafra, FireEye	**BREAKOUT 1** **Near Future of OT Attacks** Jeff Cornelius, Darktrace	**BREAKOUT 2** **Leveraging IT Programs in OT - AKA OTSM** Rick Kaun, Verve Industrial Protection	**TECHNICAL WORKSHOP** **ICS Cyber 101: Utilizing Security Onion for Network Analysis** Drew Batten, David Hudson, CISA
11:45 a.m. – 1:45 p.m.	**LUNCH**			
12:45 – 1:45 p.m.	**NETWORKING AND VENDOR EXPO**			
1:45 – 2:30 p.m.	**MAIN** **Threat Modeling of ICS Incidents/Failure Scenarios using ATT&CK for ICS** Otis Alexander, MITRE	**BREAKOUT 1** **The Convergence of Safety and Cybersecurity** Laurence O'Brien, ARC Advisory Group	**BREAKOUT 2** **Cyber Vulnerability Assessments for ICS - Why and How** Peter Brown, Independent Cybersecurity Consultant	**TECHNICAL WORKSHOP** **Network Traffic Taps: Where and How** David Hudson, Stephen Kleinheider, CISA
2:40 – 3:25 p.m.	**MAIN** **Application of Process Safety Management (PSM) Principles to Strengthen Industrial Cybersecurity in Chemical Process Industry** Ashit Dalal, TUV SUD America	**BREAKOUT 1** **RF Biometric for Wireless Devices** Jay Labhart, Endpoint Security	**BREAKOUT 2** **The Flaws and the FUDious: The Consequences of Erroneous Reporting** Selena Larson and K. Reid Wightman, Dragos	**TECHNICAL WORKSHOP** **Finding Intruders using Network Data** Drew Batten, Stephen Kleinheider, CISA
3:25 – 3:45 p.m.	**BREAK**			
3:45 – 4:30 p.m.	**PLENARY** **IT and OT Security at the Edge** William Malik, Trend Micro			
4:30 – 5:30 p.m.	**HOUSEKEEPING REMARKS—NETWORKING, EXPO, AND WORKSHOP OPEN UNTIL 5:30 P.M.**			

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WEDNESDAY, APRIL 24, 2019

7:45 – 8:30 a.m.	**CHECK-IN** **All times correspond to local time**			
8:30 – 8:35 a.m.	**Daily Opening Remarks** Janine Sheppard Events Lead Cybersecurity and Infrastructure Security Agency U.S. Department of Homeland Security			
8:35 – 9:20 a.m.	**PANEL** **Building Cybersecurity Certification - LEED-Like** Daryl Haegley, Department of Defense | Steve Griffith, NEMA | Andre Ristaino, ISA			
9:30 – 10:15 a.m.	**MAIN** **Industry Trends, Lessons, and Open Discussion on Centralized ICS Security Operations** Donovan Tindill, Honeywell	**BREAKOUT 1** **Next-Generation Visibility for Industrial Cyber Risks: Beyond Active vs. Passive Monitoring** Zane Blomgren, Tripwire	**BREAKOUT 2** **A Data Driven Analysis of Hidden Vulnerabilities in IIoT & ICS Networks** Phil Neray, CyberX	**TECHNICAL WORKSHOP** **Strategies for Implementing Change Control, Version Control and Patch Management** Drew Batten, Stephen Kleinheider, CISA
10:15 – 10:35 a.m.	**BREAK**			
10:35 – 11:20 a.m.	**MAIN** **DoD Facility-Related Control Systems Update** Michael Chipley, PMC Group	**BREAKOUT 1** **Using Modeling and Simulation to Train Neural Models for Cyber Defense** Aaron Fansler, Ampex Intelligent Systems	**BREAKOUT 2** **DEMONSTRATION** **Security Like It's 1996: Foundational Techniques for Assessing and Manipulating Embedded Devices** Michael Schroeder, 3 Territory Solutions	**TECHNICAL WORKSHOP** **Threat Modeling: Measuring Risk and Establishing Priorities** Jonathan Homer, CISA
11:30 – 12:15 p.m.	**MAIN** **How NOT to Patch** Roger Rademacher, FoxGuard Solutions	**BREAKOUT 1** **Stop Auditing and Start Managing Risk** John Cusimano, aeSolutions	**BREAKOUT 2** **DEMONSTRATION** **Mixed Reality for ICS Security** Siddhant Shrivastava, SUTD Singapore	**TECHNICAL WORKSHOP** **Capturing "Known Good" – Documenting ICS Configurations and Preserving Gold Images** David Hudson, Jonathan Homer, CISA
12:15 – 2:15 p.m.	**LUNCH**			
1:15 – 2:15 p.m.	**NETWORKING AND VENDOR EXPO**			
2:15 – 3:00 p.m.	**KEYNOTE** **ICS Security & CISA – A Unified Effort** **John Felker** Director, National Cybersecurity and Communications Integration Center Cybersecurity and Infrastructure Security Agency U.S. Department of Homeland Security			
3:00 – 3:20 p.m.	**BREAK**			
3:20 – 4:05 p.m.	**PANEL** **Can We Talk? The Need for Secure Interoperable Communications in ICS** Mike Ahmadi, DigiCert | Paul Forney, Schneider Electric | Bryan Owen, OSISoft | Oscar Marcia, Eonti			
4:05 – 5:30 p.m.	**HOUSEKEEPING REMARKS—NETWORKING, EXPO, AND WORKSHOP OPEN UNTIL 5:30 P.M.**			

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THURSDAY, APRIL 25, 2019

7:45 – 8:30 a.m.	**CHECK-IN** **All times correspond to local time**			
8:30 – 8:35 a.m.	**Daily Opening Remarks** **Janine Sheppard** Events Lead Cybersecurity and Infrastructure Security Agency U.S. Department of Homeland Security			
8:35 – 9:20 a.m.	**KEYNOTE** **Public Private Partnerships in ICS – A Look Back Over the Past Decade** **Marty Edwards** Director of Strategic Initiatives, International Society of Automation			
9:30 – 10:15 a.m.	**MAIN** **Changing the Paradigm of ICS Cybersecurity – Culture and Technology** Joe Weiss, Applied Control Solutions	**BREAKOUT 1** **Secure Operations Technology** Andrew Ginter, Waterfall Security Solutions	**BREAKOUT 2** **Targeted Attacks on Industrial Control Systems** Jens Wiesner, German Federal Office for Information Security	**TECHNICAL WORKSHOP** **Capturing and Using a Network Snapshot Baseline** Drew Batten, David Hudson, CISA
10:15 – 10:35 a.m.	**BREAK**			
10:35 – 11:20 a.m.	**MAIN** **Building an ICS Test Range** Jonathan Homer, CISA	**BREAKOUT 1** **Fine Tuning ICS Threat Models to Prioritize Mitigations on the Most Vulnerable Devices** TJ Roe, Radiflow	**BREAKOUT 2** **Prioritizing NIST CSF Gap Remediation** Michael Radigan, Leidos	**TECHNICAL WORKSHOP** **Identifying Host Configuration Changes using Yara and File Hashing** Stephen Kleinheider, David Hudson, CISA
11:30 – 12:15 p.m.	**MAIN** **A Unified Strategic Initiative for Protecting ICS** Elke Sobieraj and Jonathan Homer, CISA	**BREAKOUT 1** **Analyzing the GreyEnergy Malware: from Maldoc to Backdoor** Alessadro Di Pinto and Younes Dragoni, Nozomi Networks	**BREAKOUT 2** **Shut the Front Door: Implementing End-to-End Secure Building Automation Systems** Charlene Mowery, Ultra Electronics, 3eTI	**TECHNICAL WORKSHOP** **Hardening Hosts Within ICS Environments** Stephen Kleinheider, David Hudson, CISA
12:15 – 2:15 p.m.	**LUNCH**			
1:15 – 2:15 p.m.	**NETWORKING AND VENDOR EXPO**			
2:15 – 3:00 p.m.	**MAIN** **Securing IoT Networks** Joe Fisher, Affinity IT Security Services	**BREAKOUT 1** **Inside Product Security for Cyber-Physical Systems** Kenneth Crowther, Brad Nickens, and Kerry Stuver, GE	**BREAKOUT 2** **Japan's Cybersecurity Policies and Framework for Cyber-Physical Integrated Society** Koji Ina, Ministry of Economy, Trade and Industry in Japan (METI)	**TECHNICAL WORKSHOP** **Stump the Geek: Technical Q&A** Jonathan Homer, Drew Batten, David Hudson, Stephen Kleinheider, CISA
3:10 – 4:10 p.m.	**DEMONSTRATION** **Cyber Attacks Resulting in Catastrophic Effects** Jonathan Homer, Drew Batten, Stephen Kleinheider, CISA			
4:10 – 5:00 p.m.	**HOUSEKEEPING REMARKS—CLOSE OF MEETING**			