ICSJWG

Industrial Control Systems Joint Working Group

2017 Fall Meeting Agenda

TUESDAY, SEPTEMBER 12, 2017

7:45–8:35 a.m.	**CHECK-IN** **All times correspond to local time**		
8:35–9:00 a.m.	**MEETING WELCOME & OPENING REMARKS** **Neil Hershfield** Deputy Director, ICS-CERT U.S. Department of Homeland Security		**Todd Therrien** City of Phoenix, Information Security and Privacy Office ICSJWG Co-Chair
9:00–10:00 a.m.	**KEYNOTE ADDRESS** **Keeping America Safe: Toward More Secure Networks for Critical Sectors** **Dr. Joel Brenner** MIT/IPRI-CIS		
10:00 – 10:15 a.m.	**BREAK**		
10:15–11:00 a.m.	**MAIN** **Automation Skillz Shortage – Workforce Development Efforts** Marty Edwards, Automation Federation	**BREAKOUT 1** **Anatomy of an Attack: Two Real-World Industrial Control System Attack Vectors and How to Defend Against Them** Nick Cappi, PAS Global	**BREAKOUT 2** **Compliance Doesn't Equal Security: Steps for Prioritizing Privilege** Matthew Tarr & Mark Fullbrook, CyberArk
11:05–11:50 a.m.	**MAIN** **Demystifying Cyber Risk: Enabling Effective Comparison to Operational Risk Issues** Mike Radigan, ABB	**BREAKOUT 1** **Next Generation ICS Approaches to Combat DDoS Attacks – ICS Capability and Risk Analysis for Botnet Attacks – A Self-Diagnose ICS Network and Defensive ICS Architecture** Mangaya Sivagnanam, Ingersoll Rand (TRANE)	**BREAKOUT 2** **Improving the Overall Security Maturity of Your Organization** Rick Kaun, Verve Industrial Protection
11:50–1:20 p.m.	**LUNCH**		
12:50–1:20 p.m.	**NETWORKING AND VENDOR EXPO**		
1:20 – 2:05 p.m.	*** Securing Remote Vendor Access to Critical Infrastructure** Dr. Kenneth Radke, CERT Australia Gary Bentlin, TransGrid		
2:10–2:55 p.m.	**MAIN** **Asset Owner Lessons Learned Developing and Justifying a Cyber Security Program** Donovan Tindill, Honeywell Andrew D., Asset Owner Tim T., Asset Owner	**BREAKOUT 1**	**BREAKOUT 2** **LIGHTNING ROUNDS** **The Challenges and Rewards of Securing the Field Crew** Dr. Gowri Rajappan & Renee Angell, Doble Engineering **Program Execution Behavior for Change and Anomaly Detection** David Formby, Fortiphyd Logic **Not Sexy, But Still Essential: Best Practices for An ICS Asset and Configuration Management Program** Gib Sorebo, Leidos
2:55–3:10 p.m.	**BREAK**		
3:10–3:55 p.m.	**MAIN** **Cyber Resilience Metrics for Bulk Power Systems** Dr. Sachin Shetty, Old Dominion University Dr. Gael Kamdem, Old Dominion University Bheshaj Krishnappa, Reliability First David Nichol Malcolm, University of Illinois	**BREAKOUT 1** **DEMONSTRATION** **Introduction to the Security Onion: Network Security Monitoring in an ICS** Nik Urlaub, Power Engineers	**BREAKOUT 2** **Cyber Insurance for Industrial Operations** David Kimmel, CyberRiskPartners Andrew Ginter, Waterfall Security Solutions
4:00–4:45 p.m.	**MAIN** **CRASHOVERRIDE - Analysis of the Threat to the Electric Grid** Matt Cowell, Dragos Joe Slowik, Dragos	**BREAKOUT 1** **Honey, I Hacked The SCADA!: Industrial Controlled Systems** James Heyen, ViaSat Alex Amirnovin, ViaSat	**BREAKOUT 2** **Intelligent Incident Response in Manufacturing Environments** Brandon Bohle, Interstates Control Systems
4:45–5:30 p.m.	**HOUSEKEEPING REMARKS—NETWORKING, EXPO AND WORKSHOP OPEN UNTIL 5:30 P.M.**		

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WEDNESDAY, SEPTEMBER 13, 2017

7:45–8:30 a.m.	**CHECK-IN** **All times correspond to local time**		
8:30–8:35 a.m.	**DAILY OPENING REMARKS** **Jeff Gray**, Chief, Training and Outreach, ICS-CERT Industrial Control Systems Cyber Emergency Response Team		
8:35–9:20 a.m.	**Elimination of ICS/SCADA Cyber-Intrusion Risks to Health, Safety, and Environmental Compliance Posture of Operating Facilities** Larry Rentkiewicz, Booz Allen Hamilton		
9:25–10:10 a.m.	**MAIN** *** Combining IT and OT Security Monitoring to Prevent Cyber-attacks** Andre Ristaino, ISA	**BREAKOUT 1** **SCADA HMI -- The Hacker-Machine Interface** Fritz Sands, Trend Micro	**BREAKOUT 2** **You Just Found Out That Your Company W2s Were Compromised to a Phisher!** Chandra Yadati & Scott Horvath, Northeast Ohio Regional Sewer District
10:10–10:25 a.m.	**BREAK**		
10:25–11:10 a.m.	**MAIN** *** Microgrid Control Systems and Cybersecurity: Energy Resilience for Critical Infrastructure** Wes Stewart, IPERC	**BREAKOUT 1** **Hands-on Network Analysis Lessons for ICS Forensics Education** Thuy Nguyen, Naval Postgraduate School	**BREAKOUT 2** **State of the ICS Cybersecurity Union: We're Doing It Wrong...Still** Bradford Hegrat, IOActive
11:15 a.m.–Noon	**MAIN** **The Implications of Lack of Authentication and Cyber Security of Process Sensors** Joe Weiss, Applied Control Solutions	**BREAKOUT 1** **The Value of Hands-on Training for ICS** John Cusimano, aeSolutions	**BREAKOUT 2** *** Department of Labor Registered Cyber Apprenticeship for Industrial Control Systems** David Wolfe, Peregrine Technical Solutions
12:00–1:30 p.m.	**LUNCH**		
1:00–1:30 p.m.	**NETWORKING AND VENDOR EXPO**		
1:30–2:15 p.m.	**MAIN** *** A Cyber Risk Scoring System for Medical Devices** Stephen Dunlap, AFIT	**BREAKOUT 1** **Finding Meaning and Relevance in Cyber Threat Intelligence: Cybersecurity for the Rest of Us** Lee Kim, HIMSS	**BREAKOUT 2** **Challenges Facing Higher Education in Developing a Cyber Workforce for ICS** Dr. William Clyburn, Indiana State University Edie Wittenmyer, Indiana State University
2:15–2:30 p.m.	**BREAK**		
2:30–3:15 p.m.	**MAIN** *** CIP in Germany - More Than Two Years IT-Security Act - Where Do We Stand and Where Are We Heading** Olaf Goetz, Federal Ministry of the Interior Jens Wiesner, German Federal Office for Information Security	**BREAKOUT 1** **DEMONSTRATION** **Artemis™, A Quantitative Cybersecurity Risk Analytics Tool** Rob Risque, D-Tech Keara Jones, D-Tech Nick Duan, D-Tech	**BREAKOUT 2** **LIGHTNING ROUNDS** **Industrial Process Anomaly Detection Using Electric Signals: A Case Study from a Large Water Treatment Utility** Andy Pascoe, Siga Security **Center of Excellence and Cybersecurity Lab for Critical Infrastructure - A Public Private Collaboration Between NVCC and CyberForce** Dr. Margaret Leary,NVCC, Bimal Sareen & Srinivasa Kasturi, CyberForce *** Firmware Forensics LDRD** Ray Fox, Idaho National Laboratory
3:20–4:05 p.m.	**PANEL** **U.S. DOE – Energy Sector Partnership to Advance Cybersecurity for Energy Delivery Systems** Moderator: Dr. Carol Hawk, Cybersecurity for Energy Delivery Systems R&D Program Manager, DOE Dennis Gammel, Schweitzer Engineering Laboratories | Seth Walters, GTRI Reynaldo Nuqui, ABB, U.S. Corporate Research Center | John Collins, FoxGuard Solutions		
4:05–5:30 p.m.	**HOUSEKEEPING REMARKS—NETWORKING, EXPO AND WORKSHOP OPEN UNTIL 5:30 P.M.**		

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THURSDAY, SEPTEMBER 14, 2017

7:45–9:00 a.m.	**CHECK-IN** **All times correspond to local time**		
9:00–9:05 a.m.	**DAILY OPENING REMARKS** **Jeff Gray**, Chief, Training and Outreach, ICS-CERT Industrial Control Systems Cyber Emergency Response Team		
9:05–10:15 a.m.	**Ensuring Continuity of Expertise and Services to the ICS Community** **John Felker** Director, National Cybersecurity and Communications Integration Center (NCCIC) U.S. Department of Homeland Security		
10:15–10:35 a.m.	**BREAK**		
10:35–11:20 a.m.	**MAIN**	**BREAKOUT 1**	**BREAKOUT 2**
	Secrets of Crypto Technology Unleashed for Enhanced ICS Cybersecurity Chris Guo, Ultra Electronics, 3eTI	**The ICS Cybersecurity Community Needs to Broaden the Scope of Their Activities** Sid Snitkin, ARC Advisory Group	**IoT e-Net Registry & Edge of Delivered Electron Cyber Defense** Garland McCoy, TEI Isiah Jones, Fortress Information Security
11:25–12:10 p m.	**MAIN**	**BREAKOUT 1**	**BREAKOUT 2**
	Practical Supply Chain Requirements David Foose, Mandiant	**Collaborative Whitelisting Tools** Makoto Kiuchi, Control System Security Center	**Building Management Systems Cyber Security Case Study** Bernie Pella, Ernst & Young
12:10–1:40 p.m.	**LUNCH**		
1:40–2:25 p.m.	**MAIN**	**BREAKOUT 1**	**BREAKOUT 2**
	Why PKI Matters for IoT Security Howard Page, Icon Labs	**Malware Infection in an ICS** Scott McNeil, Global Process Automation	**What Are We To Do With Our Medical Facility Systems?** Michael Schroeder, 3 Territory Solutions
2:30–3:30 p.m.	**Ask Me Anything** **Neil Hershfield** | DHS | Deputy Director, ICS-CERT - Moderator **John Felker** | DHS | Director, NCCIC **Sean Docken** | DHS | Chief, Technical Analysis, ICS-CERT **Jeff Gray** | DHS | Chief, Training and Outreach, ICS-CERT **Greg Almeda** | DHS | Chief, Vulnerability Coordination, ICS-CERT		
3:30–4:00 p.m.	**HOUSEKEEPING REMARKS—CLOSE OF MEETING**		

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