

Wireless Considerations for the Aviation Sector

Join wireless and cybersecurity experts from across the aviation ecosystem to engage with policymakers, apply next generation wireless security skills to pressing challenges in the aviation field, and explore hands-on the research capabilities of INL's Wireless Security Institute (WSI) and University of Utah's Platform for Open Wireless Data-driven Experimental Research (POWDER) facility.

September 7, 2022

Salt Lake City Marriott University Park, 480 Wakara Way, Salt Lake City, UT 84108
Ballroom 2/3

8:00	Welcome and Workshop Overview	Zach Tudor / Dan Elmore <i>Associate Laboratory Director, National & Homeland Security, Idaho National Laboratory Director, Critical Infrastructure Security & Resilience and Executive Director, INL Wireless Security Institute, Idaho National Laboratory</i>
8:15	Aviation Cyber Initiative.....	Randy Talley <i>Senior Advisor, Transportation Security Administration, Department of Homeland Security</i>
8:45	Critical Infrastructure Risk Considerations	Ollie Gagnon <i>Chief Strategist, Infrastructure Assurance and Analysis, Idaho National Laboratory Project Manager, Aviation Cyber Initiative, Idaho National Laboratory</i>
9:15	Operational Technology (OT) Cybersecurity Landscape	Wayne Austad <i>Chief Technology Officer, National and Homeland Security, Idaho National Laboratory Chief Research and Development Officer, Cybersecurity Manufacturing Innovation Institute</i>
9:35	Wireless Security Impacts to OT	Dr. Arupjyoti (Arup) Bhuyan / Prof. Sneha Kasera <i>Technical Director, Wireless Security Institute, Idaho National Laboratory Professor, School of Computing, Associate Dean for Academic Affairs, College of Engineering, University of Utah</i>
10:15	Networking Break.....	
10:45	Security and Resilience Implications of 5G for Aviation Subsector	Dr. Arupjyoti (Arup) Bhuyan
11:15	Aircraft Data Link Capture/Avionics Cybersecurity Research.....	Jesse Young / Bryan Hatton <i>Principal Cybersecurity Researcher, QED Secure Solutions Cybersecurity Researcher, Cybercore Integration Center, Idaho National Laboratory</i>
12:00	Lunch (provided)	
1:00	5G Security Issues and Mitigations	Prof. Sneha Kasera
2:15	Networking Break	
2:45	Breakout sessions	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <i>Session 1: Avionic Signal Detection and Classification (WiFIRE Functionality Coverage)</i> <i>Session 2: Lessons from Cybersecurity Airport Training Course</i> </div> <div style="width: 35%; text-align: right;"> <i>University of Utah Idaho National Laboratory</i> </div> </div>

3:45 Closing, breakout session share outs, and next steps Ollie Gagnon

Wakara Bar, Salt Lake City Marriott University Park

5:00 No-Host Social

September 8, 2022

University of Utah, Salt Lake City

POWDER (Platform for Open Wireless Data-driven Experimental Research) Facility

8:00 Transfer from Hotel to University of Utah (bus provided)

8:30 Introduction to POWDERProf. Jacobus (Kobus) Van Der Merwe and the POWDER Team
Jay Lepreau Professor, School of Computing, University of Utah and Director, Flux Research Group

9:15 Hands On User Experience

10:00 Break.....

10:15 Walking Tour/Demo of Installed 5G Network in the Campus

11:45 Transfer from University of Utah to Hotel (bus provided)

12:00 Lunch on own/End of Workshop

Salt Lake City Marriott University Park, 480 Wakara Way, Salt Lake City, UT 84108 Connor Meeting Room

1:30 Optional Airport Cybersecurity TrainingIdaho National Laboratory Team

4:30 Adjourn