



# 2022 5th IEEE 5G Workshop on First Responder and Tactical Networks

November 7, 2022, 8:30 AM–5:00 PM EST



In collaboration with the **Department of Homeland Security, Science and Technology Directorate (DHS S&T)** and the **Office of Under Secretary of Defense for research and Engineering (OUSD R&E) - 5G**



Visit [bit.ly/5GFRTN-22](https://bit.ly/5GFRTN-22) to view the workshop website and speaker bios.

# WORKSHOP AGENDA

## ON-SITE VENUE

Kossiakoff Conference Center, 11100 Johns Hopkins Road, Laurel, MD 20723 USA ([Google Map](#)).  
More information about the traveling to the center can be found on the [Applied Physics Laboratory webpage](#).

## REMOTE

<https://jhuapl.zoomgov.com/j/1615766684?pwd=WktQZVIYaVAyT2FuTlZxcWhSMm11QT09>

ID: 161 576 6684 Password: 608271

Live Streaming [https://ieeetv.  
ieee.org/5G-Workshop](https://ieeetv.ieee.org/5G-Workshop)



## MORNING SESSION

Remote attendee can join [here](#).

*Session Chairs: Ashutosh Dutta, JHU/APL and IEEE Future Networks Initiative Co-Chair;  
and Julia Andrusenko, JHU/APL*

08:30 AM - 08:40 AM EST	Introduction and IEEE Future Networks (Ashutosh Dutta, IEEE Future Networks Co-Chair and Brad Kloza, Program Direction, Future Networks)
08:40 AM - 08:50 AM EST	Welcome Remarks (Louis A. Colangelo, JHU/APL Mission Area Executive)
08:50 AM - 09:20 AM EST	<b>Keynote Presentation:</b> 5G – The Road Ahead, Accelerate Use: Tranche Prototyping and Experimentation (Debra K Stanislawski, OUSD)
09:20 AM - 09:40 AM EST	The Evolution of Priority Access in the 5G Environment and Beyond (Billy Bob Brown, Jr, DHS ECD)
09:40 AM - 10:00 AM EST	PAWR Platforms: Advancing Wireless Comms for Tactical Response (Mari Silbey, US Ignite)
10:00 AM - 10:20 AM EST	Network Reliability of 5G First Responder and Tactical Networks (Bob Stephens, KeySight Technologies)
10:20 AM - 10:40 AM EST	Gaps and Opportunities in Nascent 5G Tactical market (Salvadore D'Itri, NSC)
<b>10:40 AM - 10:50 AM EST</b>	<b>MoRNING BReAK</b>
10:50 AM - 11:10 AM EST	How can we leverage 5G to enhance tactical communication capabilities? (Venkatesh Ramaswamy, MITRE)
11:10 AM - 11:30 AM EST	A simulation study of 5G New Radio Sidelink in Public Safety Communications (Chunmei Liu, NIST)
11:30 AM - 11:50 AM EST	5G Tactical Networks - Considerations (Brian Kassa, Ericsson)
11:50 AM - 12:10 PM EST	5G non-terrestrial networks (Qiang Wu, Qualcomm)
12:10 PM - 12:30 PM EST	Features and Gaps in a Deployable Wireless Video & Sensor Network A Field Study Review (Gordon Beattie, Viavi Solutions)
<b>12:30 PM - 01:00 PM EST</b>	<b>LUNCH BReAK</b>

## AFTERNOON SESSION

Remote attendee can join [here](#).

*Session Chairs: Pamela Patto, JHU/APL and Don Herres, IEEE Region 2 South Area Chair*

01:00 PM - 01:30 PM EST	<b>Keynote Presentation:</b> Examining DHS 5G Mission Use Cases and other Interoperability & Standards Conformance efforts (Sridhar Kowdley, DHS S&T)
01:30 PM - 01:50 PM EST	The Connected First Responder (Mike Varney, FirstNet)
01:50 PM - 02:10 PM EST	INDIGO: Intelligent 5G Networks Designed and Integrated for Globalized Operations (Tracy Van Brakle, AT&T)
02:10 PM - 02:30 PM EST	Advanced communication (5G) and (AI/ML/DL) to meet Mission Objectives for Situational Awareness and Response (Stan Mo, Gretchen Stewart, Leland Brown, Intel)
02:30 PM - 02:50 PM EST	Open-RAN Enabling Homeland Secure Networks (Kamakshi Sridhar, Mavenir)
02:50 PM - 03:10 PM EST	Information Trust Environment and possibilities in 5G (Gabriel A Martinez, DHS, CISA ECD)
<b>03:10 PM - 03:20 PM EST</b>	<b>COFFEE BREAK</b>
03:20 PM - 03:40 PM EST	Experimentation with Urban Situational Awareness Related Services (Ivan Seskar, Rutgers WINLAB)
03:40 PM - 04:00 PM EST	5G on the Moon – and why it’s Important for Tactical and First Responder Networks (Oscar Somerlock, JHU/APL)
04:00 PM - 04:10 PM EST	Accelerating 5G Innovations in Tactical Networks (Raymond Shen, KeySight Technologies)
04:10 PM - 04:20 PM EST	5G Tactical Network Deployment Challenges (Andrew Bolka, Booz-Allen-Hamilton)
04:20 PM - 04:30 PM EST	QoS Nudging rApp for Critical Communication (Eugene Gomes and Deepak Kataria, Ericsson)
04:30 PM - 04:40 PM EST	NextG RAN-sharing for Disaster-Recovery and Tactical Mission Partners (Praveen Gupta, MITRE)
04:40 PM - 04:50 PM EST	Roadmap for a Digital-Twin Enabled Testbed for Public Safety Communication Technologies (Jian Tao, Texas A&M)
04:50 PM - 05:00 PM EST	Closing Remarks (Robert Bartholet, JHU/APL)
<b>05:00 PM - 06:00 PM EST</b>	<b>RECEPTION</b>

# PATRONS

## DIAMOND



## PLATINUM



## EXHIBITORS



## EVENT PARTNERS





