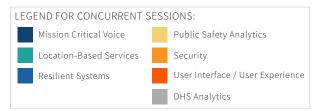






Tuesday, June 5 #PSCR2018



Plenary sessions will occur in room 29ABCD

**7:00AM - 9:00AM COFFEE** \*Available to those who elected catered registration\*

6:00AM - 8:00AM Check-In

8:00AM - 8:20AM Welcome & Kick Off 8:20AM - 9:10AM Keynote Address:

> Sue Swenson, Chairwoman of FirstNet Board Chief Brian Fennessy, Fire Chief for Orange County Fire Authority

**9:10AM - 9:45AM** Public Safety Communications Research Division Program

Update

Dereck Orr, Division Chief, NIST PSCR

9:45AM - 10:00AM BREAK

10:00AM - 11:00AM Unmanned Aerial Systems Payload and Flight Time Prize

Challenge Review

Craig Connelly, NIST PSCR
Terese Manley, NIST PSCR
Kamel Saidi, NIST PSCR
Top Challenge Participants

11:00AM - 12:00PM International Public Safety Panel

Barbara Held, Head of Directorate Operations at BDBOS

Joe Fournier, DRDC RDDC

Geoff Spring, Center for Disaster Management & Public Safety

 ${\bf Jason\ Kahn,}\, {\it NIST\ PSCR}$ 

12:00PM - 1:30PM LUNCH BREAK \*Please note that lunch will not be provided\*

1:30PM - 2:30PM Public Safety Technology Alliance Panel

Robert Escalle

2:30PM - 4:30PM COFFEE \*Available to those who elected catered registration\*

2:30PM - 2:40PM Introduction to Conference Tracks

2:40PM - 3:00PM BREAK

**3:00PM - 3:50PM** Concurrent Sessions:

ROOM 29ABCD ROOM 30A ROOM 30B ROOM 30C

MCV Portfolio Overview Don Bradshaw,

NIST PSCR Jason Kahn, NIST PSCR LBS Portfolio Overview Jeb Benson, NIST PSCR Public Safety Analytics Portfolio Overview John Garofolo, *NIST ITL*  UI/UX Program
Overview
Scott Ledgerwood,
NIST PSCR,
Kevin Mangold, NIST

4:00PM - 5:00PM N

**NETWORKING HOUR** 





Wednesday, June 6 #PSCR2018

LEGEND FOR CONCURRENT SESSIONS:

Mission Critical Voice

Location-Based Services

Resilient Systems

Public Safety Analytics

Security

User Interface / User Experience

DHS Analytics

ROOM 29ABCD

ROOM 30A

ROOM 30B

ROOM 30C

8:00AM - 10:00AM

### COFFEE \*Available to those who elected catered registration\*

8:30AM-9:20AM

End-to-End Mission Critical Push-to-Talk: Sonim

Robert Escalle, Jose Oscar Fajardo Situational Awareness for Emergencies through Network Enabled Technologies: Massachusetts Institute of

Moe Win

SAFE-NET: An Integrated Connected Vehicle & Computing Platform: Southern Methodist University

Khaled Abdelghany, May Yuan, Michael Hahsler Resilient Systems Program Overview

Eric Anderson, NIST PSCR

9:30AM-10:20AM

Coverage, Capacity, & Resilience Enhancement in Limited Public Safety Networks: George Washington University

Hyeong-Ah Choi, Amrinder Arora An Infrastructure-Free Localization System for Firefighters: Carnegie

Anthony Rowe

Public Safety Operations Video and Network Traffic Dataset: New Jersey Office of Homeland Security and Preparedness

Andrew Weinert

Emergency Edge Supercloud: Cornell University

Steve Wicker, Hakim Weatherspoon

10:30-11:20AM

Public Safety Proximity Services: Harris

Dan Ericson

Ultimate Navigation Chip: University of California,

Andrei M. Shkel

Real-time Open Source Data Analytics & Visualization Platform: Prominent Edge

Tyler Garner

Heterogeneous Fog Communications & Computing: Spectronn

R. Chandramouli

11:30AM-12:20PM

Modeling, Simulation, & Performance Evaluation: University of Washington

Dr. Thomas Henderson, Collin Brady Decimeter Accurate, Long Range Non-Line-of-Sight Radio Frequency Localization Solution: University of Michigan

Hun-Seok Kim

Real-time Video
Analytics for Situation
Awareness: Carnegie
Mellon University

Alex Hauptmann, Junwei Liang Resilient Systems Solutions for Data Sharing: Michigan Technological University

Nancy HF French, Martin Swany, Micah Beck





### DAY 2 AGENDA

Wednesday, June 6 #PSCR2018

LEGEND FOR CONCURRENT SESSIONS:

Mission Critical Voice Location-Based Services Resilient Systems Public Safety Analytics Security

User Interface / User Experience

DHS Analytics

ROOM 29ABCD ROOM 30A ROOM 30B ROOM 30C

12:30PM-2:00PM

#### LUNCH BREAK \*Please note that lunch will not be provided\*

2:00PM-2:50PM

**Mission Critical** Voice - Quality of Experience, **Key Performance** Indicators

Don Bradshaw, NIST PSCR, Tim Thompson, NIST PSCR.

Indoor Mapping and Localization Using **Compressive Sensing** 

Fabio da Silva, NIST PML

**Unified Analysis** Framework & Data Comparison Center: Western Fire Chiefs

David Blankinship, David Van Ballegooijen

Association

DistressNet-NG: Resilient Platform for Public Safety Millimeter Wave Communications:

Radu Stoleru

2:30PM - 4:30PM

#### COFFEE \*Available to those who elected catered registration\*

3:00PM-3:50PM

End-to-End Research Platform for Public Safety Millimeter Wave Communications: New York University

Marco Mezzavilla

First Responder Location & Mapping Services: TRX

Carol Politi, Jeff Kunst

Cognitive Assistant Systems for Emergency Response: University of Virginia

Homa Alemzadeh

**RESPONS: Reliable Environments for Secure** Police Operations and Nets: University of

Sangtae Ha

4:00PM-5:00PM

#### **NETWORKING HOUR**

5:00PM-6:00PM

**SAFECOM** Committee Meeting: 29ABCD

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AGENDA Thursday, June 7 #PSCR2018  LEGEND FOR CONCURRENT SESSIONS:  Mission Critical Voice Resilient Systems Security  DHS Analytics				
	ROOM 29ABCD	ROOM 30A	ROOM 30B	ROOM 30C
8:00AM - 10:00AM	COFFEE *Available	e to those who elected cater	red registration*	•
8:30AM-9:20AM	<b>Open First:</b> Software Radio Systems Paul Sutton	First Responder Indoor Location Using LTE Direct Mode: University of Cincinnati Howard Fan	Body-Worn Camera Analytics in Public Safety: University of Michigan Jason Corso	Prioritizing Your Technology Development: What First Responders Say They Want
				Mary Theofanos, NIST Usability Yee-Yin Choong, NIST Usability, Shaneé Dawkins, NIST Usability Kristen Greene, NIST Usability, Sandra Spickard-Prettyman, NIST Usability
9:30AM-10:20AM	Quality of Service, Priority, and Preemption (QPP) in Support of Mission Critical Communication Richard Rouil, NIST WND, Antonio Izquierdo	Pervasive, Accurate, and Reliable Location- Based Services: University of Oxford Niki Trigoni	Information-Driven Video Communication for Public Safety Networks: University of Cincinnati Rui (April) Dai	PSIAP - User Interface Project Presentations Scott Ledgerwood, NIST PSCR 2018 PSIAP Award Recipients
10:30AM-11:20AM	Propagation Channel Models & System Performance: University of Southern California  Seun Sangodoyin, Andreas F. Molisch	PerfLoc Prize Competition for Development of Smartphone Indoor Localization Applications Nader Moayeri, NIST ITL Ruizhi Chen	Analysis for Abnormality Detection & Alerting:	PSIAP - User Interface Project Presentations Scott Ledgerwood, NIST PSCR 2018 PSIAP Award Recipients
11:30AM-12:20PM	Device-to-Device System for Public Safety: Vencore Labs Richard C. Lau, William H. Johnson, Heechang Kim,	Hyper-Reality Helmet for Mapping and Visualizing Public Safety Data: Carnegie Mellon University Dr. Yang Cai	ETA: Extensive Tools for Analytics in Public Safety: VOXEL 51 Jason Corso, Brian Moore	Mobile Application Security Bill Fisher, NIST NCCOE, Michael Ogata, NIST ITL





## DAY 3 AGENDA

Thursday, June 7 #PSCR2018

LEGEND FOR CONCURRENT SESSIONS:

Mission Critical Voice

Location-Based Services

Resilient Systems

Public Safety Analytics

Security

User Interface / User Experience

DHS Analytics

ROOM 29ABCD

ROOM 30A

ROOM 30B

ROOM 30C

12:30PM-2:00PM

LUNCH BREAK \*Please note that lunch will not be provided\*

2:00PM-2:50PM

Off-Network Mission Critical Push-to-Talk Evaluation: Factors Impacting Access Time

Yishen Sun, *NIST WND*, Wesley Garey, *NIST WND*  Highly Mobile Deployed Networks, Deployables

Maxwell Maurice, *NIST PSCR*, Hien Nguyen, *NIST PSCR*  Educational Seminar on Artificial Intelligence:
Carnegie Mellon University

Alex Hauptmann, Zinru Yang Securing Device

Michael Bartock, NIST ITL, Gema Howell, NIST ITL

2:30PM - 4:30PM

COFFEE \*Available to those who elected catered registration\*

3:00PM-3:50PM

Mission Critical Open Platform: Universidad Del Pais Vasco

Fidel Liberal, Jani Lyrintzis, Terry Costa Modeling and Development of Resilient Communication for First Responders: University of California, Riverside

K. K. Ramakrishnan, Murat Yuksel, Hulya Seferoglu, Jiachen Chen Personal Area Networking and the Internet of Things

Alison Kahn, NIST PSCR

Security of the Future
Public Safety Broadband
Network

John Beltz, NIST PSCR, Sheila Frankel, NIST ITL, Don Harriss, NIST PSCR, Bill Fisher, NIST NCCOE

4:00PM-5:00PM

**NETWORKING HOUR** 

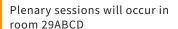
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NIST









# DAY 4 AGENDA

Friday, June 8 #PSCR2018

registration\*

8:30AM - 9:00AM Keynote Address:

Mike Poth, CEO at FirstNet

9:00AM - 10:00AM FirstNet AT&T Collaborative Panel

David Buchanan Tracy McElvaney Jeffrey Carl Jared Vandenheuvel

10:30AM - 11:30AM LIVE Virtual Reality Heads-Up Display Challenge

Results

Dereck Orr, Division Chief, NIST PSCR Ellen Ryan, Deputy Division Chief, NIST PSCR

Terese Manley, NIST PSCR Craig Connelly, NIST PSCR

11:30AM - 1:00PM LUNCH BREAK \*Please note that lunch

will not be provided\*

1:00PM - 5:00PM Live demonstrations located in rooms

22, 23BC, & 30ABC

2:30PM - 4:30PM COFFEE \*Available to those who elected catered

registration\*





