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The Premier Telemetry Event

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Technical Sessions



➤ TUESDAY, OCTOBER 25 • 2:30PM – 4:30PM

SESSION 1 – RF Spectrum

Chair: Tim Chalfant, GMRE Inc.

Aurora A/B

2:30pm “Multi-Band Control Channel Architecture (MICCA): CONOPS Mass Reconfiguration Protocol” 1

Mark M. McHenry & Mark D. Silvius, Shared Spectrum Company;
Alex Lackpour, Peraton Labs; Joe Molnar, U.S. Naval Research Laboratory

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Phiroz H. Madon, Peraton Labs

3:10pm “Dynamic Spectrum Management Using Operational Spectrum Comprehension, Analytics, and Response (OSCAR)” 17

Ryan Tortorich, Andrew Portune, Alex Lackpour & Tony Triolo, Peraton Labs

3:30pm “Risk Informed Spectrum Access” 24

Fabrice Tchakountio & Ambrose Lewis, Leidos;
Sastry Kompella, Naval Research Laboratory

3:50pm “Integration and Interference Flight Testing” 28

Michael Diehl, Tab Wilcox & Jacob Lopez,
U.S. Army, Yuma Proving Ground

4:10pm “Telemetry Spectrum Encroachment Update” 38

Guy Williams, Edwards AFB & Tim Chalfant, GMRE Inc.

SESSION 2 – Software Systems & Tools I

Chair: Todd Newton, Southwest Research Institute

Aurora C/D

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Vincent Marie & Jean-Guy Pierozak, Hensoldt Nexeya France

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Ben Kupferschmidt, Curtiss-Wright Defense Solutions

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Selim Karahan, Eduardo Lopez, Brian Montoya, Justice Shepard,
Haodong Wu, Sean Anderson, & João Hespanha, University of California,
Santa Barbara

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Arthur Wang, Berkay Turan & Mahnoosh Alizadeh,
University of California, Santa Barbara (UCSB)

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Chair: Richard Dean, Morgan State University

Cira B

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Haseeb Irfan, Ahmad Eladawy, Vaidehi Pujary & Michael Marcellin,
University of Arizona

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Brian Faires, Lance Casto & Michael Marcellin, University of Arizona

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Scott Kujiraoka, GBL Systems; Kevin Bossoletti & John Ma,
NAWCWD-Pt. Mugu

3:30pm “Wireless Airborne Instrumentation” 109

Benjamin Baird, Eglin AFB

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Chair: Deva Borah, New Mexico State University

Cira C

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Alfred Rotundo & Jacob Michalson, U.S. Army

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Dejan Milic, Goran T. Djordjevic & Bata Vasic, University of Nis;
Jaroslaw Makal, Bialystok University of Technology;
Bane Vasic, University of Arizona

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Chair: Shawn Perry, NAWCAD Pax River Aurora A/B

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Rodion Shishkov & Deva K. Borah, New Mexico State University
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Bryan Redd & Michael Rice, Brigham Young University
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Paul Cook, Curtiss-Wright Defense Solutions

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Amadou Tall, Alexander A. Berian & Tamal Bose, University of Arizona

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WEDNESDAY, OCTOBER 26 • 2:30PM – 4:10PM

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Cira B

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Cira C

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➤ THURSDAY, OCTOBER 27 • 9:00AM–10:40AM

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Aurora A/B

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Micah Ferrill, Daniel Lowe & Paul Ferrill, ATAC



What's an “IRIG”?

The Range Commanders Council, the successor to the Inter-Range Instrumentation Group (IRIG), charters the TELEMETRY GROUP (RCC-TG) which fosters the compatibility of telemetry systems and data transfer methods among telemetry users. As such, they publish and maintain standards, handbooks, reports, and studies relevant to the telemetry field.

The following are maintained and published by the RCC-TG for PUBLIC USE:

RCC/IRIG-106 TELEMETRY STANDARDS
RCC-118 TEST METHODS FOR TELEMETRY SYSTEMS
RCC-119 TELEMETRY APPLICATIONS HANDBOOK
RCC-120 TELEMETRY SYSTEMS RF HANDBOOK
RCC-121 INSTRUMENTATION ENGINEERS HANDBOOK
RCC-122 INSTRUMENTATION MEASUREMENT UNCERTAINTY
RCC-123 IRIG106 CHAPTER 10 PROGRAMMERS HANDBOOK
RCC-124 TMATS HANDBOOK
RCC-125 XML STYLE GUIDE
RCC-126 TMATS IHAL DDML SCHEMA VALIDATION
RCC-127 DDML HANDBOOK
RCC-128 IHAL HANDBOOK
RCC-129 TTMNS HANDBOOK

These documents & more are available for FREE at <https://www.trmc.osd.mil/wiki/display/publicRCC/Public+RCC+Home>

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Technical Papers

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