



ITC 2023

Keep on Telemeterin' *The Link Between Open Air and Virtual Worlds*

THE PREMIER TELEMETERING EVENT October 23–26, 2023

Bally's Hotel & Convention Center | Las Vegas, NV

Higher cost and shorter schedules will drive the future of development testing to utilize Live, Virtual, and Constructive (LVC) domains to reduce cost and compress schedules. Driven by the high cost of Live Open-Air-Range (OAR) testing, many test programs are placing higher reliance on virtual and constructive environments.

The theme of the 2023 ITC will explore how telemetry — the link between the Live and Virtual/Constructive domains — must change to support LVC testing.

As we step from today's LIVE testing (real people operating real systems) to future VIRTUAL (real people, simulated systems) and CONSTRUCTIVE testing (simulated people, simulated systems), Telemetry will take on new roles in these new environments. Using telemetry to support test setup, command, control,



model and simulation validation, verification, and improvement can evolve. Telemetry networks, coupled with common protocols on the ground such as IEEE's Distributed Interactive Simulation (DIS) Standard, The Defense Modeling and Simulation Office's High Level Architecture (HLA) and the Test and Resource Management Center's Test and Training Enabling Architecture (TENA), can provide low latency, high-performance service in the real-time application of integrating live assets in the virtual environment.

The ITC 2023 Technical Program asks: What steps will test telemetry need to take — or is already taking — to improve the future Development Testing LVC environment?

Submit a paper for ITC 2023! Requested topics include:

- Use of Telemetry in Virtual and Constructive Environments
- Model and Simulation Fidelity Improvement Using Telemetry
- Use of TENA in Telemetry Systems
- Telemetry Solutions: Aeronautical, Space, Automotive, Biomedical
- Spectrum Efficient Technologies and Applications
- Networks and Protocols
- Range Applications and Automation
- Receivers, Antennas, Modulation and Coding
- Time-Space Position Technologies
- Application of Wireless Technologies
- Ground Systems Architectures
- Computer Optimization Techniques
- Data Acquisition and Sensors
- Metadata Description of Acquisition Systems and Data
- Other Aspects of Telemetry

Student Paper Contest

Students are encouraged to submit telemetry-related papers and are asked to formally declare their submissions as student papers. There are separate categories for graduate and undergraduate students, with cash awards of \$1,000 and \$500 for first and second place in each category. The first prize winners will receive a reimbursement of their travel expenses from within the continental United States to ITC 2023 to present their winning paper(s).

Best Paper Awards

- *Best Conference Paper*
- *Lawrence Rauch Award for Standards*
- *Myron Nichols Award for Telemetry Spectrum Management, Preservation, Protection or Advocacy*
- *Undergraduate Student Awards*
- *Graduate Student Awards*

Technical Program Chair

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Submit Abstracts By: March 21, 2023

To be considered, please submit your one-page abstract by March 21, 2023 to www.telemetry.org. Acceptance notification and instructions will be sent by April 17, 2023. Final manuscripts — not exceeding 10 pages in length — are required by June 13, 2023. Formatting guidelines and templates can be found on the "Information for Authors" page at www.telemetry.org.