



Source: ESA

Ground Stations and Advanced Ground Station Networks

IEEE Radio & Wireless Week, 21st – 24th January 2023, San Antonio, Texas, USA

Ground stations are the backbone for any kind of satellite communication. The evolution of those terrestrial satellite communication infrastructures has become extremely diverse from classic ground stations as everyone knows with big dishes for deep space communication, small ground stations on the rooftop of university buildings as well as new technologies such as inter satellite link communication for 24/7 access to low Earth orbit satellites. In this workshop we will provide a great set of speakers with insights from different perspectives, incl. space agencies, academia and commercial services.

Workshop Organizer

Jan Budroweit
German Aerospace Center (DLR,
Germany)

Program Overview

- 13:30 – 13:40:** Introduction / Welcome:
- 13:40 – 14:25:** **Phased arrays for space and ground SATCOM systems: key trade-offs, technology enablers and next challenges (Václav, ESA)**
Q&A (10 min)
- 14:25 – 15:10:** **The Impact of Linearization on both Uplink and Down Link Satellite Systems (Al Katz, MACOM)**
Q&A (10 min)
- 15:10 – 15:30:** Coffee Break
- 15:30 – 16:15:** **Advanced E-Band Groundstation Terminal for High Throughput LEO Satellites with Multimode Tracking and Real-time 4K Video Reception and fly-by storage capacity (Benjamin Schoch, University Stuttgart)**
Q&A (10 min)
- 16:15 – 17:00:** **IDRS a persistent always-on connectivity for LEO Satellites (Eyal Trachtman, Addvalue Technologies)**
Q&A (10 min)
- 17:00 – 17:30:** Wrap-Up / Panel Discussion
- 17:30:** End of Workshop

