



100th ARFTG Microwave Measurement Conference

Measurement Challenges for Emerging RF-to-THz Technologies

Las Vegas, Nevada, US, **January 22-25, 2023**

www.arftg.org

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CALL FOR PAPERS

The theme for the 100th ARFTG Conference is “Measurement Challenges for Emerging RF-to-THz Technologies”. Through the course of ARFTG’s existence, microwave measurements have evolved from scalar network measurements to complex set-ups, tailored for emerging technologies in the RF-to-THz field. We encourage the submission of original papers demonstrating innovative approaches to tackle measurement challenges inherently linked to the high explosion of diverse applications based on EM waves. Suggested topics include but are not limited to:

- Calibration and characterization, incl. cryogenic, for quantum technology
- EM characterization, incl. de-embedding, of materials and biological samples
- On-wafer measurements of RF to subTHz devices and circuits
- Waveguide and free-space subTHz and THz measurements
- Generation and measurement of sub-THz signals with wideband modulation
- Nonlinear characterizations, incl. linearization, of devices, circuits, and systems
- Over the air (OTA) calibration and measurement for 5G/6G and Internet of Things (IoT)
- Other recent developments in metrology incl. measurement uncertainty

ARFTG will again be co-located with Radio and Wireless Week, www.radiowirelessweek.org.

DEADLINES

September 12, 2022	Electronic abstract/summary is due in PDF format.
October 12, 2022	Paper acceptance and classification will be communicated.
November 4, 2022	Publication-ready paper is due in PDF format.

Instructions for Authors

Instructions for authors are briefly outlined below. More details can be found on the ARFTG website: <https://www.arftg.org/index.php/upcoming-conference/author-instructions>. Authors should use the template on that page to prepare initial summaries and final paper submissions.

We request that authors submit a 4-page summary with supporting figures of both experimental setups and measurement results to enable evaluation with respect to the interests of the participants and the novelty of the work.

Contributed papers will be presented as 20-minute talks or in an interactive poster session. Final papers will be published as part of the ARFTG proceedings and in IEEE Xplore, provided it has been presented at the conference.

Financial Support for Students

To encourage student papers, ARFTG will waive the conference registration for any student presenting a paper at the 100th ARFTG Conference. Also, graduate students in the RF to THz measurement field are encouraged to apply for the ARFTG Roger Pollard Student Fellowship in Microwave Measurement (<https://www.arftg.org/index.php/membership/student-fellowship>).

Exhibit & Sponsorship

The 100th ARFTG Conference also offers an outstanding exhibition and corporate sponsorship opportunity. Please contact our Exhibits Chair (Joel Dunsmore, exhibits@arftg.org) or our Sponsors Chair (Joe Gering, sponsorship@arftg.org) directly for further information.

