2024 Spring/Summer ARFTG Microwave Measurement Conference

Schreurs, Dominique; Spirito, Marco; Marchetti, Mauro; Lewis, Dennis

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2024 Spring/Summer ARFTG Microwave Measurement Conference

Dominique Schreurs, Marco Spirito, Mauro Marchetti, and Dennis Lewis

The Automatic RF Techniques Group (ARFTG) is a technical organization interested in all aspects of RF, microwave, and millimeter-wave (mm-wave) measurement techniques and instrumentation. The group, originally created as a users' forum focused on the calibration and automation of early vector network analyzers, has grown to encompass all aspects of microwave measurements from RF to terahertz (THz).

ARFTG's core mission is education, achieved by the group by hosting conferences, workshops, and short courses covering a wide range of measurement topics as well as awarding fellowships and sponsorships to students. Additionally, ARFTG's close association with the top vendors of measurement instrumentation and components ensures high-quality exhibits at its conferences. The extended breaks from the conference technical sessions enable fruitful discussion and networking among colleagues, students, experts, and vendors.

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ARFTG sponsors two conferences each year. The fall/winter conference has recently been co-located with Radio & Wireless Week, while the spring/summer conference is co-located with the International Microwave Symposium (IMS) (see Figure 1). The 2024 Spring/Summer Conference will be a single-day event on Friday, 21 June.

The theme of the 103rd ARFTG Microwave Measurement Conference is "Advanced Measurement Techniques for Next-Gen Communication Systems."

Conference topics will cover measurement and calibration to support 6G and future-G systems; large signal measurements, including linearization of devices, circuits, and systems; mm-wave antenna and over-the-air testing; THz/mm-wave measurements, including with modulated signals; measurement-based machine learning methods and artificial intelligence applications; and innovative measurements in quantum technologies as well as many other subjects, including RF/digital mixed-signal measurement and calibration, microwave measurements for biomedical applications, and characterization of material properties as well as other recent developments in metrology, including measurement uncertainty.

Oral technical sessions are presented in a single-track format. Extended

Dominique Schreurs (dominique.schreurs@kuleuven.be) is with KU Leuven, 3001 Leuven, Belgium. Marco Spirito (m.spirito@tudelft.nl) is with TU Delft, 2628CD Delft, The Netherlands. Mauro Marchetti (mauro@anteverta-mw.com) is with Anteverta-mw B.V., 2601DB Delft, The Netherlands. Dennis Lewis (dennis.m.lewis@boeing.com) is with The Boeing Company, Seattle, WA 98108 USA.

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COURTESY OF LYLE PHOTOS

Figure 1. *Marco Spirito opening the 101st ARFTG in San Diego.*

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Figure 2. *Extended ARFTG breaks allow for live exhibitor demos and interactive forum discussions.*

breaks combine an exhibition and interactive forum, which provides networking opportunities with vendors and colleagues, whether researcher or practitioner (see Figure 2). The conference is preceded by the Nonlinear Network Vector Analyzer Users' Forum and the On-Wafer Users' Forums, and THz Measurements Users' Forum, which will be held on Thursday, 20 June. ARFTG is also cosponsoring joint workshops with the IMS, which are scheduled for 16–17 June.

ARFTG offers student sponsorship and fellowship programs. The sponsorship program gives financial aid to students presenting at an ARFTG conference, and the fellowship program provides financial assistance in support of research.

If you have an interest in measurements from 1 kHz to 1 THz and beyond, be sure to add the 103rd ARFTG Conference to your plans in Washington, DC this coming June. You will find our atmosphere to be informal and friendly. For further details regarding the conference as well as the student sponsorship and fellowship programs, visit www.arftg.org.