

FINAL PROGRAM

Hosted by

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An ESCO Technologies Company

Welcome

Welcome to the 48th Annual Meeting and Symposium of the Antenna Measurement Techniques Association (AMTA). On behalf of ETS-Lindgren and the AMTA 2026 Host Committee, it is our pleasure to welcome you to Austin, Texas.

We have organized an exciting week reflecting the best of the AMTA tradition: a world-class technical program, vibrant exhibition, and opportunities to connect with colleagues and exchange ideas. ETS-Lindgren is honored to host the Symposium for the third time, following successful events in 2006 and 2016.

The week begins with AMTA Boot Camp, introducing antenna and measurement fundamentals, and Professor Yahya Rahmat-Samii of UCLA's Short Course, Modern Antenna Measurements and Diagnostics: Principles, Practices, and Emerging Trends. Invited speakers will share perspectives on advances in computational electromagnetics, antenna measurements, and emerging technologies.

Visit the Exhibit Hall, where more than 30 companies will showcase products and technologies supporting the antenna and wireless measurement community. The week concludes with a technical tour of ETS-Lindgren's global headquarters in nearby Cedar Park.

Our social program offers more opportunities to connect, beginning with Sunday's Welcome Reception. Monday evening features a Lone Star Riverboat cruise on scenic Lady Bird Lake, while companion tours highlight local history, culture, and cuisine.

The Hyatt Regency Austin offers an ideal location for experiencing the city. We hope you'll find time to explore South Congress, enjoy Austin's culinary scene, and experience the Live Music Capital of the World.

Whether you are here to present your work, expand your technical knowledge, discover new technologies, or reconnect with colleagues, we hope your AMTA 2026 experience is rewarding and memorable.

On behalf of the Host Committee and ETS-Lindgren, welcome to Austin. We look forward to an exceptional week together!

Joel Kellogg
ETS-Lindgren



Who is Exhibiting?

Advanced Test Equipment Corp (ATEC)
Albatross Projects
AMTA 2027
Anechoic Solutions
Anritsu
Antennex
Braden Shielding Systems
Chamber Services, Inc.
Compass Technology Group
CPI Electron Device Business
Delta Sigma Company (DSC)
DVTEST/TestForce
ETS-Lindgren
Faraday Defense
Hiller Fire Protection
Impulse Technologies, Inc.
Junkosha
Keysight
MVG, the Microwave Vision Group
Next Phase Measurements (NPM)
NSI-MI Technologies
NULLSPACE
Ohmplus Technology
Ophir RF
Orb Instruments
Planar Monolithics
Resonant Sciences
Rohde & Schwarz USA
Samtec, Inc.
Sensor Concepts, a Raptor Scientific Company
Sprinkler Innovations
STAR Dynamics
TDK RF Solutions
Virginia Diodes, Inc. (VDI)
WavePro

A plan of the exhibit hall may be found on page 43.

Future Symposia

2027	San Francisco, CA	Hosted by The Boeing Company
2028	Savannah, GA	Hosted by NSI-MI Technologies
2029	Detroit, MI	Hosted by Oakland University
2030	Dallas, TX	Hosted by Rohde & Schwarz

Symposium Benefits

- High-quality technical papers presented on a continuous basis over four days
- A short course and boot camp led by world-class experts in antenna measurements
- Exhibits showcasing antenna and measurement related products and services
- The latest innovations in antenna and RCS measurements
- Known leading companies related to antenna measurements products and services
- Networking opportunities with industry experts
- A lunch and learn and technical tour showcasing historical programs that benefitted from industry techniques
- Unique social events in and around the Austin, Texas area
- Daytime guest tours to area highlights

Board and Committees

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Meeting Coordinator: Patrick Pelland, NSI-MI Technologies

AMTA 2026 Host: Joel Kellogg, ETS-Lindgren

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Treasurer: Keiti Moraes, ETS-Lindgren

Student Day Coordinator: Tara Kellogg, ETS-Lindgren

Student Day Assistant: Andy Chung, ETS-Lindgren

Short Course Coordinator/Student Day Assistant: Janet O'Neil, ETS-Lindgren

Boot Camp Coordinator: Lydell Frasch, The Boeing Company (retired)

Technical Program Liaison: Zhong Chen, ETS-Lindgren

Exhibits Coordinator: Rhonda Rodriguez, ETS-Lindgren

Events Coordinator: Dale Stone, ETS-Lindgren

Website/App Coordinator: Joseph Miller, ETS-Lindgren

Publications: Janet O'Neil, ETS-Lindgren

Conference Manager: John Vanella, ConferenceDirect

Registration Coordinator: Robin Menier, GM Partners

Graphic Designer: Pam McClung

Video Editor: Austin Taylor

Eric Walton Travel Scholarship Award Committee

Chair: Peter Collins, Resonant Sciences

Cosme Culotta-Lopez, Microwave Vision Group

Brian Fischer, Resonant Sciences

Jonathan Frasch, The Boeing Company

Lydell Frasch, The Boeing Company (retired)

Randy Jost, Utah State University

Alexander Knisely, University of Dayton Research Institute (UDRI)

Fernando Las-Heras, University of Oviedo

Teh-Hong Lee, The Ohio State University

Edward Urbanik, Applied Research Associates (retired)

Board and Committees

2026 Technical Program Committee

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Fabian Bette, Rohde & Schwarz GmbH & Co.*

Olav Breinbjerg, ElMaReCo*

David Campbell, Retired*

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Jerdvisanop Chakarothai, NICT

Hirsch Chizever, Delta Sigma*

Peter Collins, Resonant Sciences**

Claudio Curcio, Università di Napoli Federico II*

Ryan Cutshall, Null Space Inc.*

Francesco D'Agostino, University of Salerno – Italy*

Venkata Bhyrava Murthy Devata, Altair*,

Marc Dirix, Albatross Projects Belgium*

Justin Dobbins, Raytheon Technologies

Lars Foged, Microwave Vision Group*

Jeff Fordham, Retired*

Jonathan Frasch, The Boeing Company*

Lydell Frasch, The Boeing Company (Retired)

Brian Fischer, Resonant Sciences*

Joshua Gordon, National Institute of Standards and Technology*

Stuart Gregson, Next Phase Measurements*

Amanuel Haile, The Boeing Company*

Syed Shahan Jehangir, Oklahoma State University*

Randy Jost, Utah State University

Liz Joyce, Raytheon

Cornelius van't Klooster, Retired

Igal Kotzer, General Motors

Laurent Le Coq, Universite de Rennes*

Papa Leye, TII

Tian Hong Loh, National Physical Laboratory

Jeff Massman, Analog Devices

Adam Mehrabani, SAIC*

Benjamin Moser, National Institute of Standards and Technology*

Steve Nichols, Retired

John Oldham, Raytheon*

Sigurd Sandor Peterson, Aalborg University

Adam Petrus, BAE Systems*

James Rooney, Raytheon*

Nathaniel Roman, The Boeing Company

Vince Rodriguez, NSI-MI Technologies*

Francesco Saccardi, Microwave Vision Group*

John Schultz, Compass Technology Group*

Spencer Wallentine, STAR Dynamics*

Brendan Wilson, STAR Dynamics

Reza Zeinolabedin, VSEI-AMD*

*In addition, Student Best Paper Committee Member

**In addition, Student Best Paper Committee Chair



Social Calendar

Sunday, November 1
Welcome Reception
6 - 7:30 p.m.

Sponsored by NSI-MI Technologies
Cost: Complimentary with Registration

Enjoy drinks and appetizers with friends and colleagues in the Foothills Ballroom 17th Floor. This event is complimentary to all registered symposium participants and their guests.

Monday, November 2
Lone Star Riverboat Cruise
5:30 - 7:30 p.m.

Sponsored by Microwave Vison Group (MVG) and Next Phase Measurements (NPM)
Cost: $100

Experience one of Austin's most iconic attractions with an unforgettable evening aboard the Lone Star Riverboat. Cruise the scenic waters of Lady Bird Lake and enjoy breathtaking views of the downtown Austin skyline from the comfort of an electric-powered paddle wheeler. As the sun sets, witness the spectacular nightly emergence of approximately 1.5 million Mexican free-tailed bats from beneath the Congress Avenue Bridge. Your evening includes a Texas BBQ dinner with appetizers, dessert, and two drink tickets for the full-service bar. (Additional drinks may be purchased.)
Boarding begins at 5:00 PM next to the Hyatt Regency Austin; the boat departs promptly at 5:30 PM.

Tuesday, November 3
Student Day 11 a.m. - 7 p.m.

Dinner Sponsored by STAR Dynamics
Program Sponsored by IEEE AP-S TCAM
Location: Hill Country Ballroom
Cost: Complimentary

Student Day will provide an opportunity for local university students to get a taste of antenna engineering and related disciplines by interacting with practicing engineers in a variety of venues. Students will be able to tour vendor exhibits, sit in on papers, and enjoy a complimentary meal while listening to a presentation targeting issues relevant to those soon entering the engineering profession. Students should bring their resumes as the AMTA community is actively recruiting. In addition, AMTA will present an "Antenna Measurements 101" course followed by a field trip to Silicon Labs in downtown Austin to see these measurements in real-time. Students will enjoy an educational and entertaining "design contest" with prizes! Please register in advance on the AMTA 2026 website.

Tuesday, November 3
Young Professionals Reception 6 - 8 p.m.

Sponsored by ETS-Lindgren
Cost: $25 per person
Location:
Big Bend A-C

AMTA would like to invite all Young Professionals (BS within 15 years) and Undergrad uates to our Networking Event at the AMTA 2026 Symposium! We will play "AMTA Jeopardy!" – Trivia, with a Twist! This event is great at building your expertise in antenna measurement techniques as well as providing a welcoming, informal environment to network with Young Professional (YP) colleagues and experienced professionals alike. You'll have the opportunity to play alongside AMTA Experts and prizes will be awarded to the winners! Come mingle with your fellow YPs and the AMTA gurus, who will share their experiences and insights from volunteering within the AMTA community. We'll also be highlighting the student papers on the AMTA technical program! Heavy appetizers with beer and wine service included.

Wednesday, November 4
Banquet Reception
6:30 - 7:30 p.m.
Banquet Dinner & Awards
7:30 - 9:30 p.m.,
Texas Ballroom 1-4

Banquet Wine Sponsored by the Microwave Vison Group (MVG).
Cost: Included in full registration; $90 per additional ticket.

We will start the Awards Banquet with a Reception on the Texas Ballroom Foyer at 6:30, then at 7:30 move into the Texas Ballroom 1-4 for the Dinner and Awards.

Thursday, November 5
Women in Engineering Reception 6 - 8 p.m.

Sponsored by ETS-Lindgren
Cost: $30 per person
Location: Lady Bird I & II

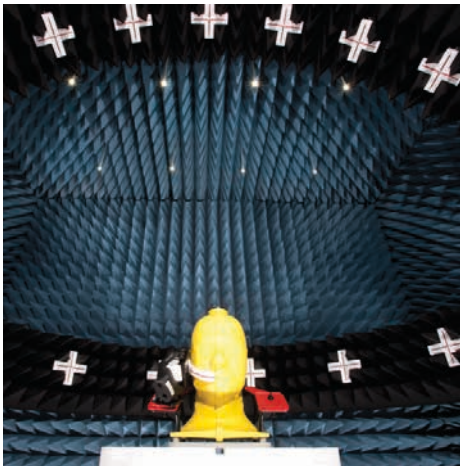
This event welcomes all members of AMTA and IEEE, men and women, to promote collaboration. Join us for an enlightening presentation on innovation, leadership, and teamwork by Nika Amralah, Canadian Department of National Defence, then enjoy the networking opportunities during the reception! See the website for more information. Heavy appetizers with wine tasting and beer included.



Friday, November 6
Technical Tour: ETS-Lindgren Global Headquarters
9:30 a.m. - 3:00 p.m.

Meet in Hyatt Lobby at 9:30 a.m.
Cost: $75 per person

Go behind the scenes at ETS-Lindgren in Cedar Park, Texas, and experience premier facilities for electromagnetic compatibility (EMC), wireless, and antenna measurement testing. This exclusive technical tour offers a unique opportunity to explore the technologies, laboratories, and test environments that support the development of today's most advanced electronic and wireless products. As the global headquarters, supporting nearly 800 employees worldwide, the facility showcases many of the innovative test solutions the company has pioneered throughout its history.



Companion Tours*

Austin History Day $80

Monday, November 2

11:30 a.m. to 3:30 p.m.

Lunch on your own

Discover the history, architecture, and charm of Texas's capital city on this Austin companion tour. Enjoy a narrated sightseeing ride aboard a Double Decker Austin bus, with views from the open-air upper deck or climate-controlled lower deck. Highlights include historic 6th Street, The Driskill Hotel, Texas State Capitol, and Texas Governor's Mansion. Following lunch on your own, enjoy a guided walking tour of the magnificent State Capitol, including its grand Rotunda, Senate Chambers, and landscaped grounds. Experience the perfect blend of Austin's vibrant energy and Texas heritage!



San Antonio Alamo and Riverwalk $100

Tuesday, November 3

10 a.m. to 3:30 p.m.

Transportation included; lunch on your own

Experience San Antonio's rich history and vibrant culture on this memorable companion tour. Led by Alamo History Interpreters, the Remember the Alamo™ guided tour brings the legendary Battle of the Alamo to life as you explore historic Alamo Plaza. Following the tour, enjoy lunch on your own at colorful Mi Tierra Café y Panadería, a beloved San Antonio landmark since 1941. Before returning to Austin, explore Historic Market Square, featuring more than 100 locally owned shops and artisan stalls. From Texas history and authentic cuisine to local treasures, enjoy a memorable taste of San Antonio's unique heritage and culture.



Austin Food Tour $75

Wednesday, November 4, 2026

11 a.m. to 2:30 p.m.

Walking tour with food stations

Experience Austin one bite at a time on this guided walking food tour through the city's vibrant downtown. Discover local favorites and hidden culinary gems while learning about the history and culture behind Austin's eclectic food scene. Sample mouthwatering Texas barbecue brisket, Austin-style breakfast tacos, authentic Italian cannoli, and more as your guide shares insider stories and local recommendations along the way. A delicious lunch is included. Come hungry and enjoy a memorable taste of the flavors, culture, and unmistakable charm that make Austin a celebrated food destination!



* *Attendance is limited at all Companion Tours; tours will be filled on a first-come, first-served basis. Comfortable walking shoes are recommended for all tours. Please bring money for lunch on Monday and Tuesday, plus any incidentals throughout the week. NOTE: Tour(s) may be cancelled if a minimum is not met; refunds will be provided.*

Boot Camp

Sunday, November 1

7:15 - 8 a.m.
Registration

8 a.m. - 5:20 p.m.
Technical Program
Hill Country AB

The AMTA Boot Camp is a 1-day course on antenna and related measurement fundamentals. Live hands-on demonstrations complement the material presented. The Boot Camp is an ideal training opportunity for those new to the antenna and related measurements community and for those who would appreciate an update or "refresher" course on these topics. Instructors are academic and industry experts who were selected based not only on their expertise, but for their ability to communicate effectively.

Technical Goals and Objectives of the AMTA Boot Camp Include:

- Gain basic understanding of the AMTA-relevant measurement systems and associated equipment
- Obtain basic understanding of the theory and physical principles of each measurement system
- Acquire technical vocabulary for each measurement system
- Gain appreciation for similarities and differences of each measurement system
- Establish appreciation for the challenges/applications that are driving the need for each measurement system
- Identify common themes in each measurement system (calibration, standards, best practices, uncertainties, etc.)



Stephen Blalock
NSI-MI Technologies



Randy Jost
Utah State University



John Schultz
Compass Technology Group



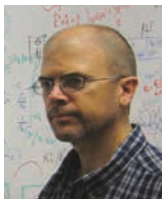
Stuart Gregson
Next Phase Measurements & Queen Mary University of London



Dennis Lewis
The Boeing Company



Teun van den Biggelaar
Antennex



Michael Havrilla
Air Force Institute of Technology



Jeff Massman
Analog Devices



Bruce Williams
NSI-MI Technologies

Time	Subject	Speaker(s)
7:15 - 8:00	Registration & Breakfast	N/A
8:00 - 8:05	Introduction	Dr. Lydell Frasch, Dr. Jorge L. Salazar-Cerreño
8:05 - 9:05	General RF Measurements	Mr. Bruce Williams
9:05 - 10:05	Material Measurements	Dr. Michael Havrilla
10:05 - 10:20	Material Measurements Demo	Dr. John Schultz
10:20 - 10:35	Break	
10:35 - 11:35	Antenna Measurements	Dr. Jeff Massman
11:35 - 11:55	Antenna Measurements Demo	Dr. Teun van den Biggelaar
11:55 - 12:55	Lunch	
12:55 - 13:55	EMI/EMC Measurements	Dr. Randy Jost
13:55 - 14:15	EMI/EMC Demonstration	Dr. Randy Jost
14:15 - 14:25	Break	
14:25 - 15:25	RCS Measurements	Mr. Stephen Blalock
15:25 - 15:45	RCS Measurements Demo	Mr. Stephan Blalock
15:45 - 15:55	Break	
15:55 - 17:10	New Innovations & Trends	Mr. Dennis Lewis, Dr. Stuart Gregson
17:10 - 17:20	Conclusions	Dr. Lydell Frasch

Short Course

Sunday, November 1

7:15 - 8 a.m. Registration and Breakfast

8 a.m. - 5:15 p.m. Technical Program, Hill Country CD

Modern Antenna Measurements and Diagnostics: Principles, Practices, and Emerging Trends

Instructor: Prof. Yahya Rahmat-Samii
Distinguished Professor and Holder of Northrop Grumman Endowed Chair
University of California, Los Angeles (UCLA)

Schedule

7:15 - 8:00 **Registration and Breakfast**

8:00 - 8:15 **Introduction and Electronic Notes**
Fundamental of EM Concepts for Antenna Characterizations
(Antenna Radiated Fields, Ideal Dipole, Solution of Wave Equations and Special Functions)

Classifications of Non Near-Field Antenna Measurement Techniques
(Far-Field Measurements, Compact Ranges and Others)

10:20 - 10:35 **Break**
Fundamentals of Various Near-Field Measurement Techniques
(Equivalence Theorem, Spectral Formulation and Probe Compensations)

11:55 - 12:55 **Lunch**
Understanding Antenna Near-Field Diagnostic Techniques
(Simulation Models, Back-Projections, Sampling Theorems)

14:15 - 14:25 **Break**
Case Studies of Several Reflector and Array Antenna Measurements
(Ground and Space Reflector and Array Antenna Measurement Examples)

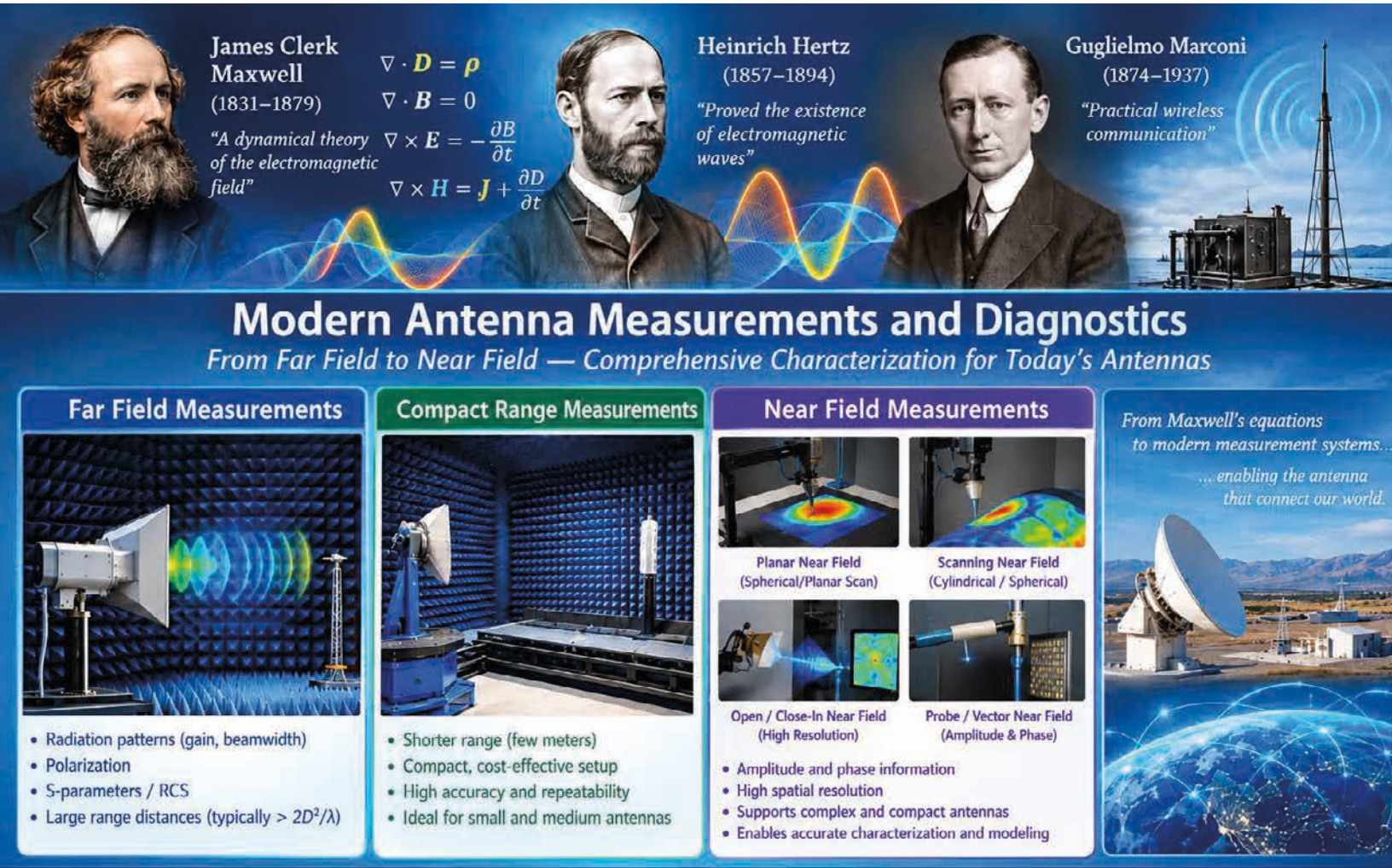
15:45 - 15:55 **Break**
Phaseless Measurements and Recent Advances
(Why Phaseless Measurements, Phase Retrieval Algorithms, AI Implementation)

Drone Based Antenna Measurements
(Fundamentals, Various Approaches, Representative Examples)

17:00 - 17:15 **Discussions, Q&A, Close**



Dr. Rahmat-Samii is the recipient of the 2011 IEEE Electromagnetics Field Award and has previously served as Chair of the UCLA Electrical Engineering Department. He received his M.S. and Ph.D. degrees from the University of Illinois at Urbana–Champaign. Prior to joining UCLA, he was a Senior Research Scientist at Caltech/NASA's Jet Propulsion Laboratory. He has authored or coauthored more than 1,100 journal and conference papers, over 40 book chapters, and seven books, and his work has appeared on the cover of IEEE publications more than 20 times. Please see the AMTA 2026 website for the complete instructor's biography.



Keynote Speaker

Emanuele Galiffi, PhD

Assistant Professor,
Silicon Labs Endowed Faculty Fellow,
Chandra Family Dept. of Electrical and Computer Engineering
The University of Texas at Austin
www.galiffilab.org



Monday, November 2

8:10 - 8:50 a.m.

Four-Dimensional Electromagnetics

Abstract: Linear time-invariant media constitute the foundations of our understanding and applications of electromagnetics, from antenna radiation to wave propagation and scattering. The static nature of time-invariant structures imposes stringent limitations on their properties, and particularly their performance bandwidth, giving rise to fundamental limits such as the Harrington-Chu limit on radiation bandwidth by a small antenna and the Rozanov bound on the bandwidth of a thin perfect absorber. Recently, a new paradigm has been gaining traction, focused on the use of time-modulated elements to overcome these limitations and realize phenomena inaccessible to static electromagnetic systems. In this tutorial lecture, the speaker will provide an overview of the rising field of four-dimensional electromagnetics, elaborating on the new ideas ushered in by combining spatial and temporal degrees of freedom to manipulate electromagnetic waves, envisioning their potential for future applications, and the related challenges and limitations along the way.

Biography: Prof. Galiffi received his bachelor's and master's degrees in physics from Imperial College London in 2016, where he subsequently completed his doctoral studies under the supervision of Prof. Sir John Pendry. For his doctoral research, he was awarded the Johnson Matthey PhD Thesis Prize and a 2020 EPSRC Doctoral Prize Fellowship. He was subsequently awarded a prestigious three-year Junior Fellowship from the Simons Society of Fellows, through which he joined Prof. Andrea Alù's group at the Advanced Science Research Center of the City University of New York in 2021. He later began a tenure-track appointment at The University of Texas at Austin. His research interests span fundamental and applied electromagnetics and photonics, with a particular focus on metamaterials exhibiting extreme electromagnetic properties, including time-varying, singular, epsilon-near-zero, and highly anisotropic structures. He has co-authored more than 40 peer-reviewed articles in leading journals, including Science, Nature Physics, Nature Photonics, Physical Review X, Physical Review Letters, Nature Communications, and PNAS. His work has received approximately 4,000 citations. For his work on electromagnetic phenomena in time-varying media, he received the 2026 URSI Santimay Basu Award in Radio Science, the 2026 Nanophotonics Early Career Award, and the 2025 SPIE Advanced Photonics Young Innovator Award.

Featured Speaker

IEEE AP-S President



Dr. C. J. Reddy

Fellow IEEE,
AMTA Ed Gillespie Fellow
Siemens Fellow, Siemens
Digital Industries Software

Tuesday, November 3

8 - 8:30 a.m.

Pushing the Boundaries of Computational Electromagnetics – Application to Antenna Designs, Placement, Co-Site Interference Simulations and Digital Twins

Simulation-driven design changed product development forever, enabling engineers to reduce design, iterations, and prototype testing. Increasing scientific computing power expanded the opportunity to apply analysis, making large design studies possible within the timing constraints of a program. This talk will focus on advanced CEM simulation tools that incorporate numerical methods, such as Method of Moments (MoM), Multilevel Fast Multipole Method (MLFMM), Finite Element Method (FEM), Finite Difference Time Domain (FDTD), Physical Optics (PO), Ray Lunching Geometrical Optics (RL-GO), and Uniform Theory of Diffraction (UTD). As the complexity of connected devices increases each day, designers are taking advantage of AI/ML to generate trained models for their physical antenna designs and perform fast and intelligent optimization on these trained models. Using the trained models, different optimization algorithms and goals can be run quickly, in seconds, that can be utilized for comparison studies, stochastic analysis for tolerance studies etc. Use of cloud computing combined with AI/ML, many design iterations can be performed in a short period and reducing the time to market. This talk will also focus on future trends in cloud computing for physics-based simulations and the emerging topics such as Digital Twins.

Featured Speaker

EurAAP



Maria Alberica Saporetti

Head of Security and Support to Space Systems
Italian Space Agency

Wednesday, November 4

8 - 8:30 a.m.

RF Security for Civilian Space Systems

Space systems play an increasingly vital role in modern society by providing and supporting critical services. Through its Security Directorate, the Italian Space Agency is committed to protecting space assets and missions. Among the most widespread threats in the space domain are intentional malicious attacks targeting the electromagnetic spectrum. Although such attacks are often primarily military in nature, radio frequency interference (RFI) can also affect governmental and civilian systems and users, resulting in serious safety concerns and economic losses.

To enhance the resilience of space systems, effective countermeasures such as anti-jamming antennas with null-steering capabilities are essential. For these applications, radiation performance, sidelobe characteristics, and signal signatures must meet stringent requirements for robustness and a low probability of intercept.

Monitoring RFI both onboard spacecraft and on the ground is becoming increasingly important.

Finally, emerging needs and challenges in antenna design and measurement for resilient governmental space systems will be presented.

Note: See the website for complete biographies of the Featured Speakers.

Lunch & Learn



Professor Ji Chen

Chair, Department of Electrical and Computer Engineering
University of Houston

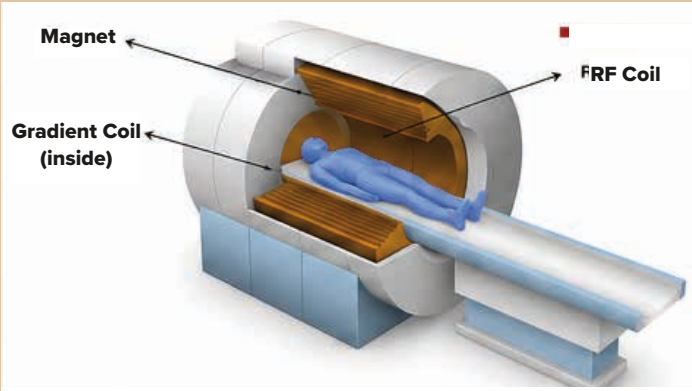
Thursday, November 5

12:30 - 1:50 p.m.

Electromagnetic Coupling, Antenna Effects, and Solutions for MRI Safety of Medical Implants

Electromagnetic interactions between MRI systems and medical devices are central to implant safety. MRI exposes patients and devices to static, switched-gradient, and radiofrequency (RF) electromagnetic fields, and conductive implants and leads can couple to these fields in ways that create induced currents, localized electric-field enhancement, and RF heating. From an antenna perspective, the MRI RF transmit coil provides the excitation, while elongated conductive implants and leads can behave as receiving structures whose resonance, orientation, and coupling strongly influence induced currents and localized heating. In this talk, we will present recent research on these electromagnetic mechanisms together with computational, experimental, and certification-oriented methods for evaluating MRI safety. Examples will include passive implantable devices, passive external fixation devices, and active medical devices, with emphasis on RF coupling, antenna and resonance effects, field and current distributions, and measurement and modeling approaches relevant to device and patient safety.

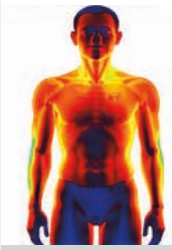
Ji Chen received his Ph.D. degree from the University of Illinois at Urbana–Champaign. After three years at the Motorola Cell Phone Research Laboratory, he joined the University of Houston, where he is currently a Professor in the Cullen College of Engineering. He serves as Director of the NSF Center for Electromagnetic Compatibility Research and the Center for Subsurface Modeling and Characterization. His research focuses on the interactions between medical devices and electromagnetic fields. Dr. Chen is a Fellow of IEEE and AIMBE and has served as Chair of the Department of Electrical and Computer Engineering since September 2024.



Major Components

- **Strong Static Magnetic Field (B_0)**
- **Gradient Coils**
- **RF Coil (Transmit/Receive)**
- **Patient Table and Shielding**

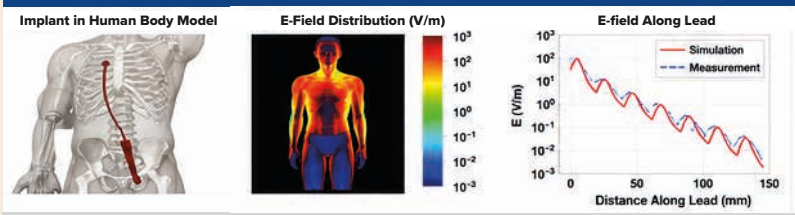
Interactions Between Implanted Devices and MRI Fields: Potential Hazards



- **RF-induced Heating**
- **Gradient-induced Extrinsic Electric Potential**
- **Gradient-induced Malfunction**
- **Gradient-induced Heating**
- **Gradient-induced Vibration**
- **B_0-induced Force/Torque**
- **B_0-induced Malfunction**

Risks to both the device and the patient must be evaluated.

Computational Modeling Example: Electric Field Distribution Near Implant



Patient-specific modeling to predict RF electric fields and identify potential hot spots.

IEEE Standards Working Group Meetings at AMTA 2026

These meetings are open to anyone interested in learning more about or contributing to standards development. You do not need to be an IEEE member to attend.

IEEE AP-S Measurement Standards: Recent Progress and Opportunities to Contribute

Tuesday, November 3
5:30 to 6:30 p.m.
Room Lady Bird I & II

The IEEE Antennas and Propagation Society (AP-S) Standards Committee oversees standards development across a broad range of antenna and electromagnetic measurement topics. This meeting will review recent progress, ongoing projects, revisions, and upcoming activities, including an update on the recently completed working group activities for the P1720 near-field antenna measurement standard.

Lars Jacob Foged, Chair of the IEEE AP-S Standards Committee, will summarize activities related to antenna measurements, near-field techniques, reverberation chambers, and wearable and on-body antenna measurements. IEEE 1128 on RF absorber testing and IEEE 1502 on radar cross-section test procedures will be covered in their dedicated technical meetings.

The discussion will focus on recent achievements, priorities, and opportunities for contributions from the AMTA community. Participants are invited to share comments and recommendations, identify topics requiring additional guidance, and learn how to join the working groups. Technical expertise is welcome, but prior experience in standards development is not required.

Anyone involved or interested in electromagnetic measurements, calibration, uncertainty evaluation, simulation, or reporting is warmly encouraged to attend.



IEEE STD 1502: Revision Status, Proposed Outline, and Input from AMTA

Wednesday, November 4
Working Lunch Meeting
12:10 to 1:30 p.m.
Room Lady Bird I & II

IEEE Std 1502-2020, Recommended Practice for Radar Cross-Section Test Procedures, is currently being revised, with **Paul De Groot** serving as chair of the IEEE APS working group. This AMTA working lunch meeting will provide an update on the progress of the revision and give members of the AMTA community an opportunity to share their comments and recommendations. Paul will briefly introduce the purpose and scope of the standard, explain the IEEE revision process, and summarize the work completed so far, including feedback gathered during a similar session held at EuCAP 2026. The proposed outline of the revised standard will then be presented followed by open discussion.

The main purpose of the meeting is to hear suggestions from the audience regarding the proposed structure, technical priorities, and topics that may require further clarification or guidance. We will also explain how interested participants can join the working group and contribute to the revision. Anyone involved or interested in RCS measurement, processing, calibration, uncertainty evaluation, or reporting is warmly encouraged to attend and take part in the discussion.



IEEE STD 1128: Revision Planning and Input from AMTA

Thursday, November 5
5:00 to 6:00 p.m.
Room Boardroom

IEEE Std 1128, Recommended Practice for RF Absorber Testing, is currently on hiatus while the working group seeks additional support for editorial work and preparation of the document using the IEEE Standards template. The technical subgroups have completed a substantial amount of technical writing, and this AMTA working refreshment break meeting will provide an update on the status of the effort and discuss plans to restart the revision.

Working Group Chair **Zhong Chen** will briefly review the work completed to date, the current organization of the technical subgroups, and the remaining editorial and technical tasks needed to move the standard forward. The primary goal is to engage members of the AMTA community who can contribute either technical expertise or assistance with IEEE standards editing and document preparation.

Anyone involved or interested in absorber characterization, RF measurements, EMC/anechoic chamber testing, material measurements, or related standards development is encouraged to attend and learn how to contribute to the effort.



AMTA 2026

Distinguished Achievement Award

Antenna Measurement Techniques Association
Distinguished Achievement Award
Presented to

Stuart Gregson



The 2026 AMTA Distinguished Achievement Award is presented to Stuart Gregson, who throughout his career has exemplified and promoted the goals and objectives of the Antenna Measurement Techniques Association. The AMTA hereby recognizes Stuart Gregson for outstanding and pioneering contributions to the practice of antenna design, analysis, and measurements, including:

- Significant contributions to the theory and practice of the near-field measurement of antennas
- Contributions as principal author to two textbooks on antenna measurements
- Being the prime mover in the establishment of the AMTA Growth Committee in 2021 and his continued contributions to the committee
- For contributions to finite array mutual coupling theory, computational electromagnetics, antenna and radome performance prediction, compact antenna test range design and simulation, electromagnetic scattering, and 5G OTA measurements

Professor Stuart Gregson has over thirty years of experience working in the space, aerospace, and communications sectors and is Director of Operations and Research at Next Phase Measurements, and an honorary visiting professor in the School of Electronic Engineering and Computer Science at Queen Mary University of London. He received both his BSc degree in Physics and his MSc degree in Microwave Solid State Physics from the University of Portsmouth, and his PhD degree from Queen Mary University of London. From his time with: Airbus, Leonardo, NSI-MI, NPL, and Next Phase Measurements; he developed special experience with near-field antenna measurements, finite array mutual coupling, computational electromagnetics, installed antenna and radome performance prediction, compact antenna test range design & simulation, electromagnetic scattering, 5G OTA measurements and has published more than a hundred and thirty peer-reviewed research papers on these topics, regularly contributing to and organizing industrial courses in these subject areas. In 2007 he was the lead author of the research text, *Principles of Planar Near-Field Antenna Measurements*, and in 2014 he co-authored *Theory and Practice of Modern Antenna Range Measurements*, both of which are now in their second editions; and in 2026 he was the lead author of *Algorithms and Numerical Techniques for Modern Antenna Measurements in MATLAB*, all of which are published by the IET within their Electromagnetic Waves Series. He has received the AMTA Best Technical Paper award on three separate occasions. In 2015 he presented the AMTA Sunday Short Course on Near-Field Measurement Error Analysis and in 2025 on Near-Field Theory & Post Processing. He currently organizes and presents the IET's annual short course on Modern Antenna Range Measurements. In 2018, Prof. Gregson was elected to the AMTA Board of Directors where he served first as Treasurer, then as Vice President, and finally as Chair of the AMTA Growth Committee. He is a Fellow of the Antenna Measurement Techniques Association, a Fellow of the Institution of Engineering and Technology, a Fellow of the Institute of Physics and is a chartered Engineer and Physicist. In 2022, he received the AMTA Distinguished Service Award.

For outstanding and pioneering contributions to the practice of antenna design, analysis, and measurements.

Distinguished Speaker Award

Antenna Measurement Techniques Association
Distinguished Speaker Award
Presented to

Manuel Sierra Castañer



The AMTA Distinguished Speaker Award is bestowed on an AMTA member that is a proven expert in the field of electromagnetic measurements and has excellent presentation and communication skills. The awardee is expected to travel internationally for invited presentations or lectures to AMTA regional events, AMTA nodes, meetings arranged by AMTA members or to present at other meetings to increase interest in AMTA.

Professor Manuel Sierra Castañer received his M.Sc. degree from the Technical University of Madrid (UPM) in 1994 and his Ph.D. degree from the same institution in 2000. After holding several positions in both industry and academia, he joined UPM in 1998, where he currently serves as Full Professor and Dean of the School of Telecommunications Engineering.

Prof. Sierra Castañer is an internationally recognized expert in antenna measurement and design techniques. His outstanding contributions to the field have been recognized through several prestigious distinctions, including his appointment as an AMTA Ed Gillespie Fellow in 2019, the AMTA Distinguished Achievement Award in 2024, and elevation to IEEE Fellow in 2025. His research group has also achieved notable success, with his students receiving the AMTA Best Student Paper Award in 2010 and 2025, as well as the AMTA Best Paper Award in 2022. Within AMTA, he has served on the Technical Program Committee for several symposia and as a member of the AMTA Growth Committee.

His extensive leadership experience includes ten years as Director of International Cooperation at UPM, three years as Vice-President of the European Association on Antennas and Propagation (EurAAP), and five years as AMTA European Liaison. He is also committed to bridging the gap between research and industrial applications, having co-founded the spin-off company ASYSOL and collaborated with industry leader MVG.

Prof. Sierra Castañer has played an active role in organizing major international conferences and symposia, serving as General Chair of the 2022 European Conference on Antennas and Propagation (EuCAP 2022), held in Madrid. He is also a member of the Board of the European School of Antennas, where he has organized courses and lectured in more than 25 courses. In addition, he has actively contributed to the development of IEEE standards related to antenna measurements.

Board of Directors Candidates



Dr. Randy J. Jost

Dr. Randy J. Jost is currently an Adjunct Professor at Utah State University, teaching courses for students in the Department of Electrical & Computer Engineering and the Department of Physics. His duties include teaching courses in Space Engineering, Space Environments, radar, EMC, antennas, electromagnetics, optics and remote sensing. Additionally, he supports the development and testing of small satellites for DARPA, the US Army, NASA and the Instituto Tecnológico de Aeronáutica (ITA; English: Aeronautics Institute of Technology) in Brazil. Randy received the BSEE, MSEE, and Ph.D. EE from the University of Missouri-Columbia. He was commissioned as an officer in the USAF in 1982 and completed assignments at the Air Force Institute of Technology, the Air Force Research Laboratory, Air Intelligence Agency, Defense Intelligence Agency, for the JCS at the Pentagon and the Plasma Physics Laboratory and HPM offices at Kirtland Air Force Base. He retired from the Air Force as a Lieutenant Colonel in 2006.

From 1991 to 1996, he worked as a Program Manager for SRI International in Rosslyn, Virginia. In 1996, he took a position as the Director of Engineering for Johnson Controls, at the National RCS Test Facility through 2000. During his time with SRI International and Johnson Controls he was heavily involved in developing the RCS Range Certification Program and teaching short courses in Low observables technology. In 2001 he joined Utah State University as an assistant professor in the Department of Electrical & Computer Engineering, teaching courses in antennas, electromagnetics, EMC, radar, microwave engineering, wireless communications, optics, solid state devices, electronics, and power engineering. In 2006, he received a joint appointment as a Senior Scientist at the Space Dynamics Laboratory at USU.

In 2011, he accepted a position at Ball Aerospace and Technologies Incorporated as a Staff Consultant, first in Antennas and RCS and then was in charge of the EMC group, retiring in 2021. He has written more than 70 papers and given multiple presentations at conferences and symposiums.

Randy has been a long-time member of AMTA, attending his first meeting in 1986 and maintaining membership in the organization since then. He has been a long-time paper reviewer as well as an active supporter of AMTA student activities. He has published multiple papers in AMTA symposiums, served as the AMTA Historian (2000-2010), has previously served on the Board of Directors (2004-2006), and was academic co-host and on the organizing committee of the 2009 AMTA symposium in Salt Lake City, UT. He is a Senior Member of AMTA.

He is a Life Senior Member of the IEEE and has served on the Board of Directors of the EMC Society, currently holds several technical committee positions in the EMC Society, and was founder of the Utah joint EMC/APS/MTT/AES chapter. He is also a member of URSI Commissions C & E, SPIE, AIAA, and the Association of Old Crows.



Ryan T. Cutshall

Ryan T. Cutshall is a Senior Applications Engineer at Nullspace Inc. He leads technical evaluations, training sessions, and customer-specific benchmark studies using Nullspace EM, a full-wave method-of-moments electromagnetic solver, for defense, aerospace, and satellite communications customers. He also develops AI-orchestrated simulation workflows that automate model setup, solver execution, and report generation.

Before joining Nullspace in 2026, Ryan spent nearly eighteen years at Raytheon, where his work focused on antenna and radome measurements, with a particular focus on planar and spherical near-field antenna measurement techniques. He was Project Manager and Technical Lead of a capital project that delivered a High Power Planar Near-Field Measurement System and a Portable Spherical Near-Field Measurement System. Most recently, he worked on the team responsible for the calibration of the active phased arrays of the Lower Tier Air and Missile Defense Sensor (LTAMDS). He served as a Section Leader in the RF Products Department and received Raytheon's Engineering Technical Honors award three times. He holds a U.S. patent for a Multi-Target Near-Field Test System. Ryan has also contributed to antenna measurement standards as a Section Lead for IEEE Std 1720 IEEE Recommended Practice for Near-Field Antenna Measurements and as a reviewer of IEEE Std 149 IEEE Recommended Practice for Antenna Measurements.

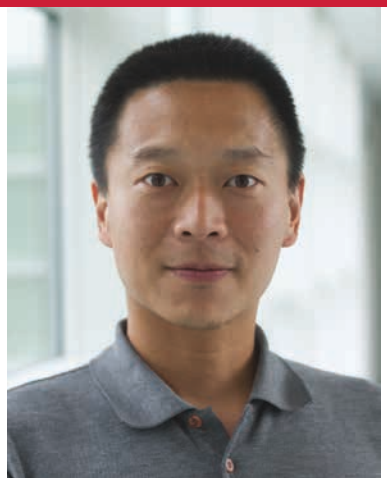
Ryan joined AMTA in 2013, the same year he presented his first AMTA paper on calculating complex gain voltage with spherical near-field measurements. He has since authored or co-authored eleven AMTA symposium papers. His most notable contributions include papers on measuring G/T with the CW-ambient technique in planar (2019) and spherical (2020) near-field ranges, the second of which earned 2nd Place in the Best of Symposium competition; a new valid angle equation for rectilinear planar near-field measurements (2022); and experimental assessments of spherical near-field measurement grids (2014, 2015). He has served on the AMTA Growth & Retention Committee since 2021. For AMTA 2025, he served as Technical Liaison on the Organizing Committee, where he helped develop the Call for Papers and organize the Friday technical tour at the Pima Air & Space Museum. He also served as a member of the Technical Committee for AMTA 2025. Ryan was elevated to AMTA Senior Member in 2022 and to AMTA Fellow in 2025.

Ryan holds an M.S. in Electrical and Computer Engineering from the University of Arizona and a B.S. in Engineering Mechanics from the University of Wisconsin–Madison, as well as a Certificate in Analog, Mixed Signal, RF, and Microwave Engineering from the UCLA Extension program. He is also a member of the IEEE Antennas and Propagation Society and has been an IEEE member since 2012.

AMTA 2026

Edmond S. Gillespie Fellows

The following outstanding contributors were awarded Fellow membership status in 2026





Tian Hong Loh received the Ph.D. degree in Engineering from the University of Warwick, Coventry, U.K., in 2005. Since then, he has been with the UK National Physical Laboratory (NPL), where he is currently a Principal Scientist and the Science Area Leader for NPL's Electromagnetic Technologies Group. In this role, he leads research on advanced measurement science for emerging electromagnetic technologies. He edited the book – Metrology for 5G and Emerging Wireless Technologies (IET, 2021), has contributed to international standards, holds ten patents, and has authored or co-authored more than 260 technical publications in antenna measurements, wireless communications, and electromagnetic metrology.

He is a Fellow of the IEEE (Institute of Electrical and Electronics Engineers), the International Academy of Artificial Intelligence Sciences (AAIS), and Antenna Measurement Techniques Association (AMTA). He currently serves as President of the UK National Committee of the International Union of Radio Science (URSI), Chair of the European Association on Antennas and Propagation (EurAAP) Working Group on Antenna Measurements, and Visiting Professor at the University of Surrey. He is also active in several IEEE technical committees and standards activities. His research interests include antenna and over-the-air measurements, multiple-input-multiple-output (MIMO) systems, 5G/6G and future wireless communications, metamaterials, reverberation chamber techniques, quantum sensing of electromagnetic fields, and radio-frequency metrology.

Tian Hong has been actively engaged with AMTA community since 2016. He became an AMTA member in 2022 and a Senior Member in 2023. He currently serves as Chair of the AMTA United Kingdom Node and is a member of both the AMTA Technical Program Committee and Growth Committee. He has contributed regularly to AMTA symposia through technical papers and presentations, including AMTA 2015, 2023, 2024, 2025, and 2026, and delivered an invited talk at the AMTA 2025 Student Day. Since 2019, he has also organized AMTA-convened sessions at the European Conference on Antennas and Propagation (EuCAP), helping to strengthen collaboration between the AMTA and EurAAP antenna measurement communities worldwide.

Wei Fan received the Ph.D. degree from Aalborg University, Aalborg, Denmark, in 2014. He was with Aalborg University, where he became an Assistant Professor in 2014, a Tenured Associate Professor, and the Leader of "Wireless Propagation and Over-the-Air (OTA) Testing" Research Group in 2017, and a Professor (Promotion Program) in 2023. He was with Intel Mobile Communications, Aalborg, in 2011, and with Anite Telecoms Oy (now Keysight Technologies), Oulu, Finland, in 2014, as a Research Intern. He also holds a Docentship (Adjunct Professor) with Oulu University, Finland, since 2023. He is a Chair Professor with Southeast University, Nanjing, China. His current research interests include over-the-air (OTA) testing of multiple antenna systems, radio channel sounding, parameter estimation, modeling, and emulation, and antenna measurements. Dr. Fan is a Senior Member of IEEE, and URSI and a Fellow of IET. He was a recipient of the Sapere Aude Research Talent Award from Independent Research Fund Denmark, the URSI Young Scientist Award, the IEEE AP-S Young Professional Ambassador, and an Unrestricted Research Gift Award from Meta Platforms, USA. He currently serves as an associate editor for IEEE TAP, IEEE AWPL, IEEE OJAP, IET-MAP and Reviews of Electromagnetics (RoE) journals.

In 2007, AMTA created the Edmond S. Gillespie Fellow membership grade to recognize those members for their outstanding and pioneering contributions to the theory, practice, and art of antenna and RF measurements. Membership in the Fellow grade is to honor the memory of Dr. Edmond. S. “Stan” Gillespie who made many contributions to the antenna community as a professor at California State University, Northridge, and his activities in both the AMTA and the IEEE Antennas and Propagation Society.

The criteria for being named a Fellow are through contributions to AMTA in two of the following three areas:

1. Significant technical contributions through publications,

2. Excellence in education in the field of antenna measurements, and

3. Dedication through active AMTA service.

A complete list of AMTA Fellows can be found on the AMTA web site **www.amta.org.**









2026 Outstanding Service Awards

Justin Dobbins, 2025 Host Chair

Jeffery Massey, 2025 Co-Host

ETS-Lindgren, Host Organization

Jeff Fordham, 2025 Past President, 2024 President, 2022-2023 Secretary

Olav Breinbjerg, 2024-2025 AMTA Distinguished Speaker

2026 Senior Members

Roger Richardson, Delta Sigma

Jeffrey P. Massman, Analog Devices

2026 AMTA TICRA Foundation Travel Winners

Florian Reher
RWTH Aachen University, Germany

Assad Hussein
University of Oulu, Finland

Henrik Jansen
RWTH Aachen University, Germany

2026 Eric Walton Student Travel Scholarship Recipients

Zuzanna Madzinska
Eindhoven University of Technology, Netherlands

Adeel Imran
Eindhoven University of Technology, Netherlands

Mohamed Hani Ahmed
Nile University, Egypt

Growth Committee

Co-Chair: Daniel Aloi, Oakland University

Co-Chair: Lars Foged, Microwave Vision Group

Ryan Cutshall, Nullspace

John Locke, Molex Connected Mobile Solutions

Adam Mehrabani, SAIC

Benjamin Moser, NIST

Michael Francis, NIST (retired)

Tian Hong Loh, National Physical Laboratory

Marc Dirix, Albatross Projects

Paul J. De Groot, Boeing - Phantom Works

Nathaniel Roman, Boeing

Amedeo Capozzoli, University of Naples Federico II

Stuart Gregson, Next Phase Measurements (ex-officio)

Vikass Monebhurrun, CentraleSupélec

Amanuel Haile, Boeing

Peiyuan Qin, University of Technology Sydney

Satoru Kurokawa, AIST

Benoit Derat, VIAVI Solutions

Mahesh Appajappa, R.V. College of Engineering

Manuel Sierra Castañer, Universidad Politécnica de Madrid

Michael Foegelle, Keysight Technologies

Wei Fan, Southeast UniversityVikass Monebhurrun, CentraleSupélec

Web Oversight Committee

Chair: Jonathan Frasch, Boeing

Brian Fischer, Resonant Sciences

Zhong Chen, ETS-Lindgren

Ed Urbanik, (retired)

CJ Reddy, Siemens

Michelle Lepage, MPE Limited

Jeff Fordham, NSI-MI (retired)

Justin Dobbins, Raytheon Technologies

Alex Matveyenko, Ametek

Tony Sanchez, Antenna Systems Solutions

Robin Menier, AMTA Member Services

Be sure to play AMTA 2026 BINGO!



Visit each AMTA 2026 exhibitor booth between November 2-4 (Monday - Wednesday) and get your card stamped.

Drop completed cards into the BINGO card drop box.

BINGO cards will be drawn at random for prizes during the AMTA Awards Banquet.

You must be present to receive your prize.

AMTA 2026 NOVEMBER 1-6 AUSTIN TEXAS

Stay up to date with the latest conference information!

To download the **AMTA 2026 mobile app** and instructions on how to use Whova, go to:

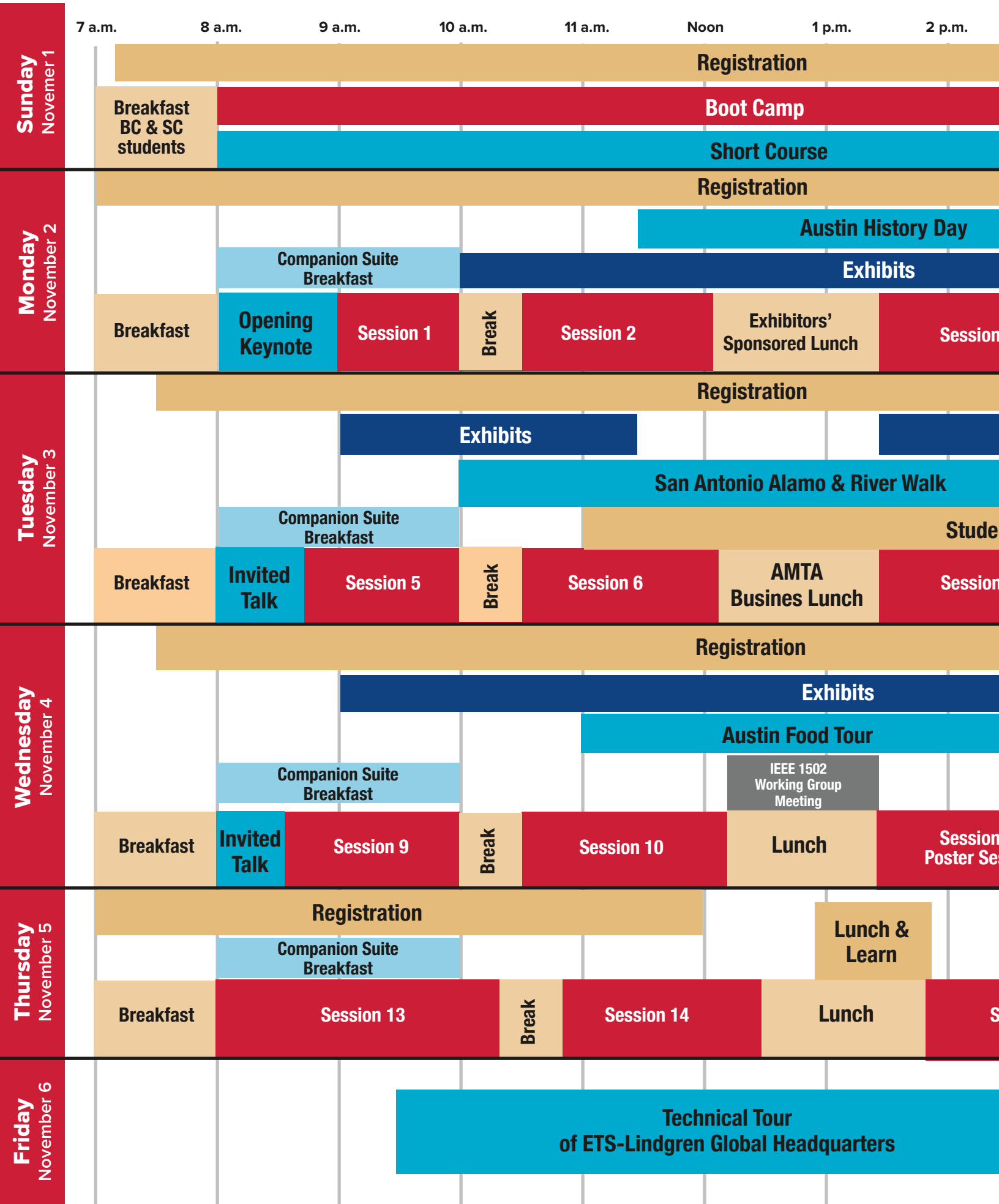
2026.amta.org/amta-2026-app
or use the QR code above.

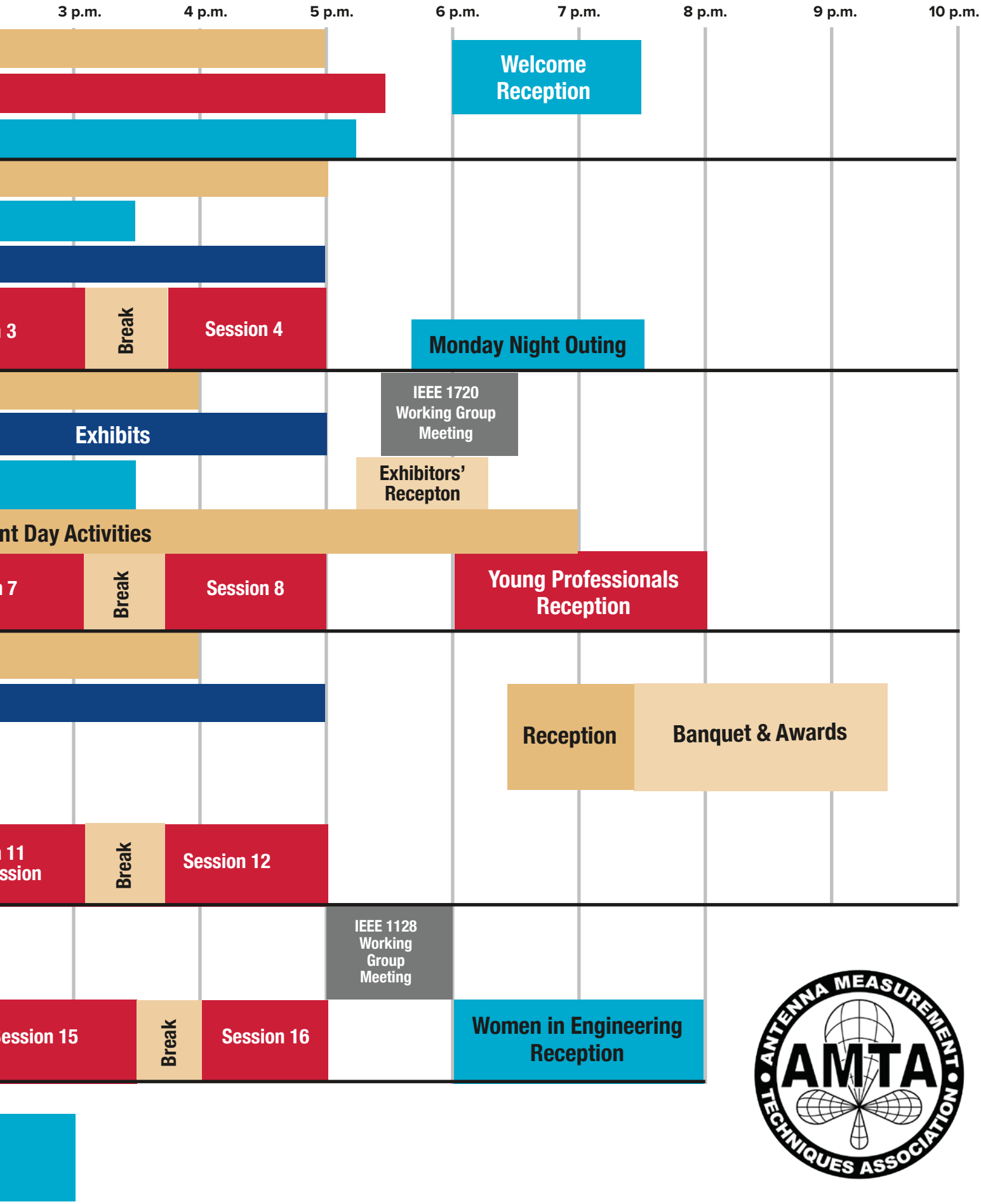


You'll have instant access to awesome features including:

- The full event schedule
- Contact info of other attendees
- Detailed info about speakers, exhibitors, and sponsors
- Notifications of important activities, updates, and more

AMTA 2026 Schedule




3 p.m.
4 p.m.
5 p.m.
6 p.m.
7 p.m.
8 p.m.
9 p.m.
10 p.m.
Welcome Reception
3
Break
Session 4
Monday Night Outing
IEEE 1720 Working Group Meeting
Exhibits
Exhibitors' Recepton
nt Day Activities
7
Break
Session 8
Young Professionals Reception
Reception
Banquet & Awards
11
ssion
Break
Session 12
IEEE 1128 Working Group Meeting
ession 15
Break
Session 16
Women in Engineering Reception

Exhibitors

Advanced Test Equipment Rentals

Advanced Test Equipment Rentals (ATEC) offers a comprehensive inventory of RF/microwave, EMC/EMI, electrical, and environmental test equipment for antenna measurement and compliance testing. ATEC's rental inventory supports major standards including MIL-STD, IEC, and ISO, while the team of experts helps engineers and test labs achieve accurate, reliable results. With 40+ years of experience, ATEC serves aerospace, defense, automotive, energy, and medical industries. Leading the way in experience and technical installation, we are an industry trusted resource for civilian and defense applications. We build, relocate, reconfigure, repair, and maintain your chambers to keep your chambers looking good and work as it should. We are all proud citizens of the United States of America.

Albatross Projects

Albatross Projects is one of the leading global (OEM) manufacturers of anechoic chambers and shielded rooms for various applications in EMC, antenna testing, and high-frequency technology. Our expertise lies in the development, design, and realization of test environments to verify the electromagnetic compatibility or antenna performance of your products according to national and international requirements. Available offerings: EMC Chamber solutions; Wireless Chambers for millimeter wave, 5G, Wi-Fi, and Bluetooth; RF Shielded Enclosures; Antenna Performance Chambers; Chamber Relocations or Modification Services; Pyramidal Anechoic Absorber solutions; RF Chamber components. Tell us what you need – we'll have the solution.

AMTA 2027

The Boeing Company welcomes you to the 49th Annual Meeting and Symposium of the Antenna Measurement Techniques Association (AMTA). Join us on California's sunny San Francisco Peninsula for the week of October 17-22, 2027. Enjoy exploring this unique region which balances the sophistication of world-class cities with small-town charm. Set in the middle of unparalleled dining, events and attractions while connecting with measurement experts from around the world, AMTA 2027 will feature a full technical program including a short course, boot camp, and papers highlighting the latest research and industry advancements. The Symposium concludes with a technical tour of a regional facility showcasing one or more AMTA technical disciplines. The Call for Papers will open in March 2027, inviting professional engineers, scientists and students to present their state-of-the-art research. For details and updates, visit 2027amta.org. We look forward to seeing you on the San Francisco Peninsula!

Anechoic Solutions, Inc.

Leading the way in experience and technical installation, we are an industry trusted resource for civilian and defense applications. We build, relocate, reconfigure, repair, and maintain your chambers to keep your chambers looking good and work as it should. We are all proud citizens of the United States of America.

Anritsu

Anritsu is a provider of innovative communications test and measurement solutions. Anritsu engages customers as true partners to help develop wireless, optical, microwave/RF, and digital solutions for R&D, manufacturing, installation, and maintenance applications, as well as multidimensional service assurance solutions for network monitoring and optimization. Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical devices for communication products and systems. The company develops advanced solutions for emerging and legacy wireline and wireless technologies used in commercial, private, military/aerospace, government, and other markets.

Exhibitors

Antennex

Antennex is a company specialized in Over-The-Air (OTA) antenna measurement technology and services. In 2023 we introduced The Wireless Connector™, a compact, automated tabletop chamber for OTA measurements between 5 and 170 GHz. Built on reverberation-chamber technology, the **Wireless Connector**™ reliably runs key powerbased tests 100 to 1000 faster than other measurement systems. It offers a scalable path to next-generation RF performance validation for sectors like wireless communications, automotive, aerospace, defense, and more. Alongside our test systems, Antennex provides expert measurement and consulting services to help you meet your testing needs and adopt the new testing paradigm.

Braden Shielding Systems

Braden Shielding Systems is a recognized leader in the design, manufacture, and installation of electromagnetic shielding systems for medical, defense and industrial sectors. Operating from our 50,000+ square foot facility in Tulsa, OK, we produce a full range of high-performance RF shielded products for every point of entry in a shielded environment. Along with serving our own extensive customer base, other shielding contractors rely on Braden for their supply of shielding components ranging from standard panel and framing systems to more custom, precision-engineered doors, windows, and more. Our success is driven by rigorous quality standards, prompt/accurate responsiveness, and dependable project management.

Chamber Services, Inc.

Chamber Services, Inc. Chamber Services, Inc. is a forward – thinking, Anechoic Facility Design, Construction and Services Company committed to delivering the highest level of service and superior quality products to valued customers. Our services include Anechoic Chamber Design, Consultation and Construction. Including Architectural, Modular and Welded RF Shielded Enclosure Installations/Relocations, RF Shielded Enclosure Maintenance, RF Absorber Material Removal/ Installation, RF Absorber Material Maintenance, RCM and Pneumatic RF Shielded Door Installation and Maintenance, Zinc and Copper Coatings Flame Spray Service. Chamber Services Inc. association with the leading RF Shielding and RF Absorber manufactures provides a factory direct source for RF Shielded Enclosures, RF Shielded Doors, RF Absorber Materials, Power and Signal Line Filters, Waveguides, Pipe Penetrations, Custom Test Fixtures, Portable RF Absorber Panels and much more.

Compass Technology Group

Compass Technology Group are experts in microwave and millimeter wave material characterization. We offer off-the-shelf and custom instruments and software for measuring dielectric and magnetodielectric materials, including free-space lens (focused beam) systems from 0.5 to 100+ GHz and specialized probes for UHF and VHF materials. Our non-destructive testing (NDT) systems are used in manufacturing and repair depots. Systems include wide bandwidth microwave and millimeter wave spot probes for measuring reflection or transmission of shielding, radomes, transparencies, or other composite structures. These sensors are deployed as handheld tools or end-of-arm-tooling on robotic scanning systems.

Exhibitors

CPI Electron Device Business

CPI Electron Device Business (EDB) is a manufacturer of aerospace electronic components and subsystems focused primarily on the defense market. The company develops, manufactures and globally distributes innovative and reliable technology solutions used in the generation, amplification, transmission and reception of microwave signals for commercial and military applications. CPI EDB's modular instrumentation amplifiers, covering frequency range from 9kHz – 50GHz, including traveling wave tube amplifiers (TWTAs) and Solid-State Amplifiers (SSA's), are designed for electromagnetic compatibility (EMC) high-intensity radiated field (HIRF) testing, military testing, electronic warfare (EW) simulation, and scientific applications.

Delta Sigma Company

Delta Sigma Company (DSC) designs, builds, delivers, and supports electromagnetic measurement systems for antenna, radar cross section (RCS), radome, and RF materials applications. DSC specializes in turnkey R&D ranges, quality control chambers, target handling solutions, low RCS pylons, precision positioners, compact reflectors, and measurement software. Its systems are engineered for reliable, accurate, repeatable performance in demanding test configurations, while simplifying test article loading, mounting, and transport into the quiet zone. By combining electromagnetic measurement expertise with mechanical engineering, automation, motion control, and system integration, DSC delivers practical solutions that improve measurement quality, safety, usability, and throughput across customer programs worldwide.

DVTEST and Testforce

DVTEST and Testforce are sister companies providing comprehensive test and measurement solutions for engineers developing, validating, and manufacturing advanced technologies. Testforce delivers a broad portfolio of electronic test equipment from leading manufacturers, including RF and microwave, wireless, power, data acquisition, oscilloscopes, network, optical, and automated test solutions, supported by system integration, calibration, repair, rental, and technical expertise. DVTEST complements these capabilities with RF shielded and anechoic enclosures, thermal test solutions, antenna couplers and measurement systems, positioning systems, monitoring solutions, and custom engineering. Together, DVTEST and Testforce provide customers with integrated, application-focused solutions from instrumentation through complete test environments and systems.

ETS-Lindgren

ETS-Lindgren is a global leader in RF, microwave, and electromagnetic measurement solutions for aerospace and defense, automotive, wireless, satellite, and government applications. Our portfolio includes Far-Field, Near-Field, Compact Range, and Radar Cross Section (RCS) measurement systems, OTA solutions for 5G and 6G technologies, RF absorbers, antennas, positioners, probes, and precision instrumentation. Integrated with SPECTRA emquest™ APM antenna measurement software, our systems deliver accurate, automated antenna measurements and advanced data analysis. Complementing our products, ETS-Lindgren provides comprehensive engineering, installation, calibration, maintenance, and lifecycle support services to help customers maximize system performance and long-term value.

Exhibitors

Faraday Defense

Faraday Defense is a U.S.-based manufacturer and engineering company specializing in electromagnetic shielding, RF isolation, and controlled testing environments. Since 2014, Faraday Defense has designed, manufactured, and installed solutions for EMI, RFI, EMP, and EMF protection across defense, aerospace, telecommunications, electronics, medical, forensic, and commercial applications. Its capabilities include custom EMC and anechoic chambers, RF-shielded enclosures, Faraday chambers and tents, conductive fabrics, and specialized shielding systems. Faraday Defense provides complete solutions from engineering and design through manufacturing, installation, and testing, delivering reliable, high-performance environments for emissions, immunity, antenna, RF, and electronic equipment testing. Based in Kalamazoo, Michigan, Faraday Defense serves customers worldwide.

Impulse Technologies, Inc.

Impulse Technologies, Inc. stands at the forefront of RF component manufacturing and distribution, specializing in innovative Microwave & Millimeter-Wave technologies. Our product offerings include in-house manufactured standard gain horns, adapters, attenuators, phase shifters, and various other waveguide products. In addition, we supply a broad range of high-performance antennas including broadband, dual-polarized, and space-grade models—sourced through trusted international partners. These antenna solutions support cutting-edge work in antenna testing, aerospace programs, and research environments. As an ITAR registered and ISO 9001:2015 certified company, we ensure top-tier quality, solidifying our role as a trusted advisor and provider in the industry for over three decades.

Junkosha

Junkosha are pioneers of sophisticated fluoropolymer application technologies across various sectors including semiconductor manufacturing, microwave interconnect and medical devices. Our RF cable is known as excellent “Phase & Amplitude stable” cable over flexure and temperature change, and it covers DC~145GHz. Please stop by our booth to see our low IL and TVAC option.

Keysight

Keysight enables innovators to push the boundaries of engineering by quickly solving emulation, and test challenges to create the best product experiences. Whether you’re looking to improve your development process, optimize and secure your network, or get a head start on technologies like 5G, 6G, electronic or autonomous vehicles, IoT, or quantum — Keysight accelerates innovation with intelligent insights built on the most accurate measurements to reduce risk and speed time-to-market. Our fusion of technology knowledge, measurement science expertise, and tailored solutions help you forge ahead with confidence in our connected and dynamic world. What’s next starts here, with Keysight.

MVG, the Microwave Vision Group

MVG, the Microwave Vision Group, offers cutting-edge technologies for the visualization of electromagnetic waves. With advanced test solutions for antenna characterization, radar signature evaluation and electromagnetic measurements, we support company R&D teams in their drive to innovate and boost product development. Dedicated to the aerospace & defense, satellite, telecommunications, automotive, EMC & CE industries as well as research institutes, we are the one-stop shop for turn-key systems, solutions and services for near-field and far-field antenna measurement, CATR, RCS, radome & radar, 5G OTA, and EMC testing. MVG: fast, accurate and reliable test and measurement solutions.

Exhibitors

Next Phase Measurements

Next Phase Measurements (NPM) is a California-based US company with a management team of industry pioneers recognized all over the world having over 100 man-years of experience in antenna measurement systems. NPM leverages world class established products like industrial robots and receivers integrating them with its state-of-the-art software, NPM-AMS 2.0, to provide turnkey antenna measurements and upgrades for Near-Field, Far-Field, CATR, and RADOME systems. NPM is also the distributor and value-added-reseller across the American continents for Antenna Systems Solutions, providing antenna measurement systems to the worldwide Aerospace, Defense, Commercial, Automotive, Wireless, Academic and Research markets.

NSI-MI Technologies

NSI-MI Technologies is a global leader in RF test and measurement solutions, serving aerospace, defense, satellite, wireless, and emerging autonomous systems markets. From advanced antenna measurement systems and precision positioners to RF instrumentation, RCS measurement, directed energy testing, drone characterization, and RF scene generation solutions, NSI-MI delivers integrated platforms engineered for accuracy, repeatability, and performance. Combining deep technical expertise with automation-driven workflows, NSI-MI helps customers accelerate development, improve validation efficiency, and scale testing with confidence. Backed by global support and long-term partnerships, NSI-MI enables innovation across the world's most demanding RF applications. Your global partner in RF test and measurement.

Nullspace

Nullspace develops full-fidelity, high-speed simulation software purpose-built for RF systems. Built on over a decade of DoD-validated technology, we enable engineers to model larger, more complex designs ever possible before, without sacrificing accuracy. Nullspace EM is a modern, full-fidelity software built for simulating electrically-large antenna, phased array, and radar problems that exceed the capabilities of legacy tools. Proprietary matrix compression combined with CPU and GPU acceleration delivers up to 25x faster simulation without any loss of accuracy. A Python-native architecture enables full automation from CAD to post-processing, as well as natural integration into AI-enabled workflows.

Ohmplus Technology Inc.

Ohmplus Technology Inc. specializes in high-frequency RF and phased-array antenna measurement solutions. Powered by its patented OHM+ Fast AI algorithm, the system accelerates testing speeds by 10x and repairs damaged antenna elements in real-time. Ohmplus provides one-stop, highly eAicient solutions for the LEO satellite, 5G/6G, defense, and semiconductor industries, helping clients significantly reduce testing time and overall costs.

Ophir RF

Ophir RF designs and manufactures High Power RF/Microwave Amplifier Systems and Modules for Defense Applications, EMC, and Test & Measurement applications. Our capabilities include broadband, multi-octave amplifiers from 10 KHz to 40 GHz. Power ranges up to thousands of watts are achievable CW, and pulsed power in the tens of thousands of watts are common. Ophir RF Amplifiers are made in the USA since 1992.

Exhibitors

Orb Instruments

Orb Instruments specializes in designing and commercializing innovative systems for the measurement and characterization of radiating systems, serving the needs of the telecommunications, IoT, defense, and scientific research industries. Built on original, patented technology, the company aims to democratize access to antenna measurement systems — making high-precision characterization tools more accessible to engineers and researchers who have traditionally relied on costly, complex laboratory setups. By combining proprietary innovation with a focus on usability and affordability, Orb Instruments empowers organizations across sectors to accurately measure, validate, and optimize radiating system performance, accelerating development cycles and enabling broader adoption of advanced RF and antenna technologies.

Planar Monolithics Industries

For nearly four decades, our company has delivered consistent results and built lasting partnerships. Over the past five years, our name and visual identity have evolved to better reflect who we are today and where we're going next. Planar Monolithics Industries (PMI) was founded in 1989 and soon established its reputation as a leading supplier of custom, high-reliability radio frequency microwave components and subsystems covering DC to 70 GHz. Delivering industry-standard performance for mission-critical applications in the military, communications, commercial and consumer industries, PMI continues to expand its portfolio of state-of-the-art hybrid MMIC components, modules, and subsystems.

Sensor Concepts, a Raptor Scientific® Company

Sensor Concepts, a Raptor Scientific® Company, has provided crucial support to the warfighter through trusted radar signature solutions for 5th and 6th generation platforms — ensuring readiness, reliability, and performance in the most demanding environments. Combining proven expertise, precision performance, and mission-critical support, SCI empowers warfighters with confidence that they are mission ready.

Resonant Sciences

Resonant Sciences LLC develops advanced antennas and innovative RF measurement technologies that accelerate the path from concept to validated performance. Headquartered in Dayton, Ohio, our team brings decades of experience in antenna engineering, RF measurement, and aerospace and defense programs. By combining antenna design, precision manufacturing, advanced measurement systems, and production under one roof, we provide customers with a single partner for engineering, characterization, and manufacturing. Our integrated approach reduces program risk, shortens development timelines, and ensures the accuracy, repeatability, and quality required for the most demanding defense and aerospace applications.

Rohde & Schwarz USA

Test and measurement solutions from Rohde & Schwarz include all types of RF T&M equipment and systems as well as complementary products. The company's focus is on the requirements of the mobile and wireless communications market, a market R&S has been closely involved with for decades, on the requirements of the automotive industry, whose added value is increasingly based on vehicles' electronic features, and on the T&M requirements of the aerospace and defense industry. Manufacturers of entertainment electronics, power electronics, RF components, IT and network equipment as well as other sectors also benefit from the wide range of products.

Exhibitors

Samtec, Inc.

Samtec, Inc., is a privately held, $1 Billion (USD) global manufacturer of a broad line of electronic interconnect solutions, including High-Speed Board-to-Board, High-Speed Cables, Rugged, Power, RF, Board-to-Board and Cable-to-Board Systems.

Sprinkler Innovations

Sprinkler Innovations manufactures the only FM-approved, self-retracting telescoping sprinkler assemblies specifically designed for Anechoic and EMC chambers. We offer comprehensive services including design, installation, maintenance, and testing for our retractable sprinkler head systems. Proudly made in the USA, our assemblies have been installed in thousands of facilities worldwide. Whether you're planning a new build or retrofitting an existing chamber, our team can help seamlessly integrate self-retracting sprinkler technology into your next project.

STAR Dynamics

STAR Dynamics – Inspiring Innovation in people, technology and the nation. With extensive history in the international, defense-related R&D, Test and Evaluation community, leveraging a product legacy of ultra-wideband RCS/Imaging and precision Time Space Position Information tracking Instrumentation Radar systems. Established in 1988, STAR Dynamics has a strong pedigree of more than thirty-five years of development, manufacturing, sales and aftermarket support of industry-leading systems, globally recognized as the industry leader of instrumentation systems for commercial and military applications. STAR Dynamics is a Veteran-Owned Small Business, which has facilitated expansion of its technology within the international defense community. STAR Dynamics is focused on providing the best technology and support possible to its domestic and international customers, and investing in technologies to maintain market superiority.

TDK RF Solutions Inc.

TDK RF Solutions Inc., belonging to TDK Corporation's EMC & RF Engineering Business Division, was established in Cedar Park, Texas in 1987 and acquired by TDK in 1998. TDK RF Solutions is a world leader in the design, development, and manufacture of technical solutions for the electromagnetic compatibility testing and antenna measurement industries. We offer a complete range of solutions including automated test systems, TDK anechoic chambers, RF absorbers, antennas, software, and a wide range of test products.

The Hiller Companies

The Hiller Companies offers fire protection and life safety products and services that are preserving lives and property all around the world. Headquartered in Mobile, Alabama, Hiller extends its reach globally as well as in domestic markets with offices across the United States. For more than 100 years, we have been laser-focused on one goal – making the world a safer place. We are proud to be on the forefront of technology and innovation by creating adaptable safety solutions. As we continue to grow and expand our life safety footprint, we pledge to keep our customers top of mind while striving to design, install and service the most compliant, reliable systems available.

Exhibitors

Virginia Diodes

Virginia Diodes – VDI manufactures state-of-the-art test and measurement equipment for mmWave and THz applications. These products include Vector Network Analyzer, Spectrum Analyzer and Signal Generator Extension Modules that extend the capability of high performance microwave measurement tools to higher frequencies. VDI's component products include detectors, mixers, frequency multipliers and custom systems for reliable operation at frequencies between 50 GHz and 2 THz. All VDI components include in-house fabricated GaAs Schottky diodes and microelectronic filter structures.

WavePro

Founded in 1993, WavePro has over 30 years of expertise in microwave test systems, providing advanced solutions for LEO satellite, antenna, and radar applications. Our patented Diamond-Shaped Reflector (DSR) delivers superior quiet zone performance and enhanced low-frequency capability for high precision antenna measurements. Trusted by industry leaders including GreenerWave and Intellian Technologies, WavePro is committed to enabling the next generation of satellite communications.

Technical Co-Sponsors

ACES

The Applied Computational Electromagnetics Society (ACES) provides a forum for issues relevant to numerical modeling in applied electromagnetics. The primary focus of ACES is on computational techniques, electromagnetics modeling software, and applications. The Applied Computational Electromagnetics Society offers the ACES annual symposium, publications, code user groups, benchmark problem solution workshops, short courses, software demonstrations, and other activities which serve the professional community.

EurAAP

The European Association on Antennas and Propagation (EurAAP) is an international not-for-profit Association with a scientific, educational and technical purpose, registered in Brussels, Belgium, under European law. The 4 pillars of EurAAP are the European Conference on Antennas and Propagation (EuCAP), the European School of Antennas (ESoA), the Reviews of Electromagnetics (RoE) and the Working Groups (WG).

IEEE Antennas and Propagation Society (AP-S)

The field of interest of the AP-S encompasses: antennas, including analysis, design, development, measurement, and testing; radiation, propagation, and the interaction of electromagnetic waves with discrete and continuous media; and applications and systems pertinent to antennas, propagation, and sensing, such as applied optics, millimeter-and sub-millimeterwave techniques, antenna signal processing and control, radio astronomy, and propagation and radiation aspects of terrestrial and space-based communication, including wireless, mobile, satellite, and telecommunications. Learn more about:
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ISAP

The International Symposium on Antennas and Propagation (ISAP) is intended to provide an international forum for the exchange of information on the progress of research and development in antennas, propagation, electromagnetic-wave theory, and related fields. In addition, special topics treating emerging technologies heralding a new era in wireless communications and applications are invited for consideration. It is also an important objective of our meetings to promote mutual interaction among participants.

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In Compliance Magazine features in-depth coverage of worldwide regulatory compliance issues for the electronics industry. Each month you'll find technical articles from industry-leading authors on topics related to testing and design, standards updates and changes, products, services, and more! Available in print or digitally, we offer a variety of informational resources for electrical engineering professionals. Visit our website, activate your free subscription, and join one of our many eNewsletters for regular updates.

Microwave Journal

Since 1958, Microwave Journal has been the leading source for information about RF and Microwave technology, design techniques, news, events and educational information. Microwave Journal reaches 50,000 qualified readers monthly with the magazine that has a global reach. In 2017, Signal Integrity Journal was launched as a sister magazine covering signal integrity, power integrity and EMC/EMI for high-speed digital design engineers. Microwave Journal is the only trade journal to peer review technical features before publication to ensure that they are accurate, timely and useful to the reader. Subscribe to Microwave Journal for free at www.microwavejournal.com.

RF Globalnet

Welcome to RF Globalnet, the Internet's leading source of cutting-edge technical information for the RF/microwave design community. If you are an RF/microwave design engineer or engineering manager involved in the design and development of wireless subsystems and components, or military, and other radio-based communication systems at all levels, you now have access to a comprehensive web community delivering the latest updates on RF technology to give you the competitive advantage in your industry.

Marketing Co-Sponsor

IEEE Electromagnetic Compatibility (EMC) Society

The IEEE EMC Society is committed to advancing technology through engineering related to the electromagnetic environmental effects of systems - to be compatible with themselves and their intended operational environment. Founded in 1957, the EMC Society addresses standards, measurement techniques and test procedures, instrumentation, equipment and systems characteristics, interference control techniques and components, education, computational analysis, and spectrum management, along with scientific, technical, industrial, professional or other activities that contribute to this field. With more than 3,500 members around the world, over 100 chapters globally, active Young Professionals and Women in Engineering communities, an annual symposium, as well as five peer-reviewed publications available on IEEE Xplore, the EMC Society welcomes your involvement! Visit www.emcs.org for more information.

Monday, November 2

Opening/Keynote Session
8:00 - 9:00 am

8:00 - 8:10 am **Welcome and Introduction**
Marco Anthony (Tony) Sánchez (AMTA President)

8:10 - 8:50 am **Keynote Presentation**
Four-Dimensional Electromagnetics
Emanuele Galiffi (The University of Texas at Austin)

8:50 - 9:00 am **Technical Session Opening Remarks**
Michael D. Foegelle (AMTA Technical Coordinator)

Session 1
Advanced Measurements 1
9:00 - 10:00 am

Chair: Ryan Cutshall (Nullspace, Inc.)

9:00 - 9:20 am A26-00215: *SNR-Controlled Sampling for Multifrequency Multimonostatic Linear Inverse Scattering via Constrained SVO*
Amedeo Capozzoli (Università di Napoli Federico II), Claudio Curcio (Università di Napoli Federico II), Angelo Liseno (Università di Napoli Federico II)

9:20 - 9:40 am A26-00220: *Far-Field Group Delay Measurements of Embedded LO Frequency Converters*
Thorsten Lück (Rohde & Schwarz), Daniel Müller-Remer (Rohde & Schwarz GmbH & Co. KG), Chiara Villante (Rohde & Schwarz GmbH & Co. KG), Jaydeep Singh (Microwave Vision Group, MVG), Francesco Saccardi (Microwave Vision Group, MVG), Andrea Giacomini (Microwave Vision Group), Nicolas Gross (Microwave Vision Group, MVG), Lars Foged (Microwave Vision Group, MVG)

9:40 - 10:00 am A26-00274: *Practical Aspects of Making G/T Measurements on a Planar Near-Field Range*
Mihai Berbeci (NSI-MI Technologies), Eddy Park (NSI-MI Technologies), Johnston Hou (NSI-MI Technologies), Bruce Williams (NSI-MI Technologies)

Morning Break
10:00 - 10:30 am

Session 2
Antenna Design and Analysis
10:30 am - 12:10 pm

Chair: Randy Jost (Utah State University)

10:30 - 10:50 am A26-00190: *Accurate and Efficient Full-Wave Modeling of Large Phased Arrays: Methods and Applications*
Tonny Rubæk (TICRA), Mark Whale (TICRA), Pasquale Giuseppe Nicolaci (TICRA), Edoardo Baldazzi (TICRA), Nafsika Memeletzoglou (TICRA), Erik Jørgensen (TICRA), Martin Haulund Gæde (TICRA), Cecilia Cappellin (TICRA)

10:50 - 11:10 am A26-00191: *Visualization of the Near-Field-to-Far-Field Transition Region of a Circular Array*
Ryan Cutshall (Nullspace, Inc.), Justin Dobbins (Raytheon an RTX Business)

11:10 - 11:30 am A26-00254: *Material Characterization and Measurement Strategies for a Novel 3D-Printed Lightweight Transmitarray Antenna*
Wenman Hu (University of California Los Angeles), Yahya Rahmat-Samii (University of California Los Angeles), Shuo Zhang (University of California Berkeley), Xiaoyu Rayne Zheng (University of California Berkeley)

11:30 - 11:50 am A26-00265: *Surrogate-Based Design Tool for Irregular Linear Antenna Arrays Using Machine Learning*
Gustavo Vicentine (National Institute of Telecommunications (Inatel)), Pei Xiao (University of Surrey), Carmelo Bastos-Filho (University of Pernambuco (UFPE)), Evandro Conforti (Laboratory of Advanced Photonic Communication and Microwaves (LAPCOM), FEEC (Unicamp)), Arismar Cerqueira (Lab WOCA, Inatel, (National Institute of Telecommunications))

11:50 am - 12:10 pm A26-00283: *Air-Gap Optimization and Tradeoff Analysis of Bandwidth, Gain, and Power Capacity in a K-Band Gap Waveguide-Based Antenna*
Nayan Sarker (Graduate Student, UT Dallas), Ifana Mahbub (Associate Professor, UT Dallas)

Exhibitor Lunch
12:10 - 1:30 pm

Session 3
Antenna Measurements 1
1:30 - 3:10 pm

Chair: Justin Dobbins (Raytheon, an RTX Business)

1:30 - 1:50 pm A26-00240: *From Spherical Wave Expansion to Wilcox Expansion to Extrapolation Formula – Three Pillars of Antenna Measurement Theory*
Olav Breinbjerg (ElMaReCo)

1:50 - 2:10 pm A26-00181: *Numerical Analysis of Error Sources on Extrapolation Ranges*
Vince Rodriguez (NSI-MI Technologies), Gwenaël Dun (NSI-MI Technologies), Esra Celenk (NSI-MI Technologies), Mark Ingerson (NSI-MI Technologies)

2:10 - 2:30 pm A26-00204: *A Parametric Analysis of the Limitations of Far-Field Gain Extrapolation*
Dale Canterbury (Raytheon an RTX Business), Dylan Ybarra (Raytheon an RTX Business), William Dykeman (Raytheon an RTX Business)

2:30 - 2:50 pm A26-00242: *Toward Rapid Fixed-Probe Calibration of Finite Dual-Polarized Phased Arrays Across Scan Angle via Electronic Beam Diversity*
Jeff Massman (Analog Devices Inc.)

2:50 - 3:10 pm A26-00228: *Experimental Validation of a Two-Stage Method for Correcting 3-D Position Errors in a Spherical Scan*
Francesco D'Agostino (University of Salerno), Flaminio Ferrara (University of Salerno), Lars Foged (Microwave Vision Group, MVG), Claudio Gennarelli (University of Salerno), Andrea Giacomini (Microwave Vision Group, MVG), Rocco Guerriero (University of Salerno), Massimo Migliozzi (University of Salerno), Luigi Pascarella (University of Salerno), Francesco Saccardi (Microwave Vision Group, MVG), Jaydeep Singh (Microwave Vision Group, MVG)

Afternoon Break
3:10 - 3:40 pm

Session 4
Imaging, Algorithms, and Processing Techniques
3:40 - 5:00 pm

Chair: Jeff Fordham (NSI-MI Technologies, retired)

3:40 - 4:00 pm A26-00188: *Recent Advances in the Use of Compressive Sensing Techniques for the Rapid Production Test of Commercial Nose-Mounted Radomes in a Robotic Antenna Measurement System*
Clive Parini (Queen Mary University of London), Stuart Gregson (NPM and Queen Mary University of London), Dennis Lewis (The Boeing Company), Wayne Cooper (The Boeing Company)

4:00 - 4:20 pm A26-00232: *One-Port to Two-Port S-Matrix Extraction*
Prashant Chaudhary (Oakland University), Ravi Kumar Arya (Zhongshan Institute of Changchun University of Science and Technology, China), Daniel Aloi (Oakland University)

4:20 - 4:40 pm A26-00238: *Location and Estimation of Far-Field Antenna Pattern Peaks for the Determination of Electrical Pointing, Gain, and Directivity*
Marc Dirix (Albatross Projects Belgium, Belgium, Institute of High Frequency Technology, RWTH-Aachen, Germany), Stuart Gregson (Next Phase Measurements, CA, USA, Queen Mary University of London, UK)

4:40 - 5:00 pm A26-00257: *Further Exploration of the Spectral-Tuning Approach to Element-Excitation Measurement*
Scott McBride (NSI-MI Technologies)

Tuesday, November 3

IEEE AP-S Invited Speaker
8:00 - 8:30 am

Pushing the Boundaries of Computational Electromagnetics – Application to Antenna Designs, Placement, Co-Site Interference Simulations and Digital Twins
C.J. Reddy (Siemens Fellow, Digital Industries Software; 2026 IEEE AP-S President)

8:30 - 8:40 am Technical Session Announcements
Michael D. Foegelle (AMTA Technical Coordinator)

Session 5

Range Design, Instrumentation, and Characterization 1

8:40 - 10:00 am

Chair: Adam Mehrabani (SAIC)

8:40 - 9:00 am A26-00173: *Uncertain About Uncertainty: A Standard Approach to Antenna and RCS Uncertainty Analysis*
Logan Van Itallie (BAE Systems, Inc.), Craig Wheeler (BAE Systems, Inc.), Zack Peasha (BAE Systems, Inc.)

9:00 - 9:20 am A26-00186: *High-Precision Octave Dual-Polarized Feed for Optimal Quiet-Zone Performance in Compact Antenna Test Ranges*
Esra Celenk (NSI-MI Technologies), Vince Rodriguez (NSI-MI Technologies), Mark Ingerson (NSI-MI Technologies)

9:20 - 9:40 am A26-00198: *Analysis of Calibration Techniques for Plane Wave Generator Systems*
Francesco Saccardi (Microwave Vision Group, MVG), Vincenzo Schirosi (Microwave Vision Group, MVG), Andrea Giacomini (Microwave Vision Group, MVG), Jaydeep Singh (Microwave Vision Group, MVG), Gaia Guida (Microwave Vision Group, MVG), Enrico Benso (Microwave Vision Group, MVG), Lars Foged (Microwave Vision Group, MVG), Nicolas Gross (Microwave Vision Group, MVG), Evgueni Kaverine (Microwave Vision Group, MVG), Jimmy Howell (Microwave Vision Group, MVG), Tom Kauffman (Microwave Vision Group, MVG)

9:40 - 10:00 am A26-00199: *Digital Twin Method for Radome Performance Verification*
John Schultz (Compass Technology Group), Ren Geryak (Compass Technology Group)

Morning Break
10:00 - 10:30 am

Session 6

Advances in Robotic Antenna Measurements and Processing (EurAAP/EuCAP Convened Session)

10:30 am - 12:10 pm

Co-Chairs: Roland Moch (NSI-MI Technologies Ametek) and Marc Dirix (Emerson & Cuming Anechoic Chambers NV)

10:30 - 10:50 am A26-00185: *Near-Field to Far-Field Transformation of Irregular, Non-Equiangular, Spherical Near-Field Measurements Utilizing a Non-Equispaced FFT*
Marc Dirix (Albatros Projects Belgium, Institute of High Frequency Technology, RWTH-Aachen), Stuart Gregson (NPM and Queen Mary University of London)

10:50 - 11:10 am A26-00197: *Frequency Smear Correction in Non-Canonical Robotic Near-Field Antenna Measurements*
Henrik Jansen (Institute of High Frequency Technology, RWTH Aachen University), Roland Moch (NSI-MI Technologies AMETEK), Dirk Heberling (Fraunhofer - FHR)

11:10 - 11:30 am A26-00207: *Error Identification Technique for Planar Systems Tested Using a Robotic Arm*
Celia Fontá Romero (Universidad Politecnica de Madrid), Manuel Sierra Castañer (Universidad Politecnica de Madrid), Ana Arboleya Arboleya (Universidad Rey Juan Carlos)

11:30 - 11:50 am A26-00231: *External Position Feedback for Robot-Based Antenna Measurements*
Roland Moch (NSI-MI Technologies AMETEK), Henrik Jansen (Institute of High Frequency Technology, RWTH Aachen University), Dirk Heberling (Fraunhofer - FHR)

11:50 am - 12:10 pm A26-00241: *W-Band Near-Field Measurement Techniques Using a Portable Laser Guided Robotic Metrology System*
Bryan Schoenholz (NASA Glenn Research Center), James Downey (NASA Glenn Research Center), Seth Waldstein (NASA Glenn Research Center), Sarah Dever (NASA Glenn Research Center)

AMTA Business Lunch
12:10 - 1:30 pm

Session 7

Near-Field Measurements 1

1:30 - 3:10 pm

Chair: Manuel Sierra Castañer (Universidad Politécnica de Madrid)

1:30 - 1:50 pm A26-00175: *Millimeter-Wave First-Order Probe for Spherical Near-Field Measurements: Design and Validation*
Justin Geerarts (TU Eindhoven), Bart Smolders (TU Eindhoven), Ad Reniers (TU Eindhoven)

1:50 - 2:10 pm A26-00187: *Mechanical Error Analysis in a Vertical Near-Field Scanner for Millimeter and Submillimeter Wave Antennas*
Laurent Le Coq (IETR UMR CNRS 6164), Samuel Corre (IETR UMR CNRS 6164), Stéphane Plus (IETR UMR CNRS 6164)

2:10 - 2:30 pm A26-00196: *The Pattern Uncertainty Induced by Single-Pol Probe Correction*
Ryan Cutshall (Nullspace, Inc.), John Sangiolo (Raytheon an RTX Business)

2:30 - 2:50 pm A26-00211: *Uncertainty Budget Estimation in Microwave Holography Using the NIST 18-Term Error Model*
Rakesh Kumar (Space Applications Centre, ISRO), Jaswant Sharma (Space Applications Centre, ISRO), Jigar M Pandya (Space Applications Centre, ISRO), Sanjeev Kulshrestha (Space Applications Centre, ISRO)

2:50 - 3:10 pm A26-00213: *Compact Plane-Wave Generator for Beam Peak Search at 28 GHz in the Fresnel Region*
Ga-Eun Song (Chosun University), Hui-Jun Woo (Chosun University), Soon-Soo Oh (Chosun University)

Afternoon Break
3:10 - 3:40 pm

Session 8
RCS Measurements 1
3:40 - 5:00 pm

Chair: Peter Collins (Resonant Sciences)

3:40 - 4:00 pm A26-00192: *Design Considerations for an Antenna Radar Cross Section Test Fixture*
James Rooney (Raytheon El Segundo)

4:00 - 4:20 pm A26-00194: *Full-Wave Prediction of Pylon Radar Cross Section*
Cecilia Cappellin (TICRA), Andreas Lindberg Jakobsen (TICRA), Sergiy Pivnenko (ANTENNA SYSTEMS SOLUTIONS S.L. - ASYSOL)

4:20 - 4:40 pm A26-00206: *Validation of MBET-Free Scattered-Field Transformation for Fixed Bistatic Angle*
Yoshihiko Akamine (Acquisition, Technology and Logistics Agency (ATLA), Ministry of Defense (MoD))

4:40 - 5:00 pm A26-00224: *Computationally Efficient RCS Simulations of Electrically Large Targets Using Characteristic Basis Function Method (CBFM)*
VENKATA BHYRAVA MURTHY DEVATA (Siemens Digital industries Software), C J Reddy (Siemens Digital industries Software)

5:30 - 6:30 pm IEEE AP-S Standards Committee Overview and P1720 (Near-Field Antenna Measurements) Meeting
Chair: Lars Foged (MVG)
Room: Lady Bird I & II

Wednesday, November 4

EurAAP Invited Speaker
8:00 - 8:30 am

RF Security for Civilian Space Systems
Maria Alberica Saporetti (Italian Space Agency)

8:30 - 8:40 am Technical Session Announcements
Michael D. Foegelle (AMTA Technical Coordinator)

Session 9
Advanced Measurements 2
8:40 - 10:00 am

Chair: Stuart Gregson (NPM and Queen Mary University of London)

8:40 - 9:00 am A26-00177: *The Enhanced Gain Extrapolation Technique*
Joshua Gordon (National Institute of Standards and Technology (NIST)), Benjamin Moser (National Institute of Standards and Technology (NIST))

9:00 - 9:20 am A26-00182: *Linear Rail Kinematic Calibration Using a Legendre Polynomial Model*
Benjamin Moser (National Institute of Standards and Technology (NIST)), Joshua Gordon (National Institute of Standards and Technology (NIST)), Andrew Petruska (Colorado School of Mines)

9:20 - 9:40 am A26-00217: *Digital Twin Framework for Robotic Antenna Measurements at Sub-THz Frequencies*
Asad Husein (University of Oulu), Kimmo Rasilainen (University of Oulu), Juha-Pekka Mäkelä (University of Oulu), Aarno Pärssinen (University of Oulu), Marko E. Leinonen (University of Oulu)

9:40 - 10:00 am A26-00266: *Comparative Uncertainty Analysis of Material Measurement Techniques*
David Kay (BAE SYSTEMS (Operations) Ltd), Edward Baker (BAE SYSTEMS (Operations) Ltd), Adam Petrus (BAE SYSTEMS (Operations) Ltd)

Morning Break
10:00 - 10:30 am

Session 10

Antennas and Measurements for Wireless Communication Systems

10:30 am - 12:10 pm

Chair: Reza Zeinolabedin-Rafi (AMD)

10:30 - 10:50 am A26-00202: *Cross-Band Simulation of Vehicular 5G NR MIMO OTA Throughput via the Radiated Two-Stage Method*
Daniel Aloi (Oakland University), John Locke (Molex), Prashant Chaudhary (Oakland University)

10:50 - 11:10 am A26-00225: *Experimental Demonstration of Angle of Arrival Detection Using a Finite Hybrid Reconfigurable Intelligent Surface*
Sajedeh Keshmiri (Arizona State University), Kavian Zirak (Arizona State University), Mohammadreza Imani (Arizona State University)

11:10 - 11:30 am A26-00271: *Elementwise Calibration of a 28 GHz Reconfigurable Metasurface for Optimized Beam Steering*
Florian Reher (Institute of High Frequency Technology, RWTH Aachen University), Spandan Manna (Institute of High Frequency Technology, RWTH Aachen University), Dirk Heberling (Fraunhofer - FHR)

11:30 - 11:50 am A26-00273: *Detection and Tracking of Tagged Objects Using Harmonic Micro-Doppler and Communications Signals of Opportunity*
Cory Hilton (Michigan State University), Jeffrey Nanzer (Michigan State University)

11:50 am - 12:10 pm A26-00280: *Pushing the Boundaries of a Compact Range Quiet Zone*
Thorsten Hertel (Keysight Technologies), Michael Foegelle (Keysight Technologies)

Lunch Break

12:10 - 1:30 pm

12:10 - 1:30 pm IEEE Standard 1502 (RCS Test Procedures) Working Lunch Meeting
Chair: Paul De Groot (Boeing)
Room: Lady Bird I & II

Session 11

Poster Session

1:30 - 3:10 pm

Chair: Nathaniel P. Roman (Boeing)

A26-00209: *A Low-Profile Radiation Reconfigurable UWB Antenna Array for Sub-6 GHz Communication*
Grace Monetti (The College of New Jersey), Mahrukh Khan (The College of New Jersey)

A26-00223: *Design of an Integrated Antenna for Implantable Cardiac Pacemaker for Bluetooth Low Energy Communication*
Jaehoon Kim (Siemens Digital industries Software)

A26-00247: *A Shared-Aperture Dual Wideband SIW Based Leaky-Wave Antenna for K/Ka-Band Millimeter-Wave Applications*
Muhammad Iqbal (Oklahoma State University), Syed Jehangir (Oklahoma State University)

A26-00248: *Dual-Circularly Polarized Wideband Leaky-Wave Antenna Array for Millimeter-Wave 5G SatCom Applications*
Muhammad Iqbal (Oklahoma State University), Syed Jehangir (Oklahoma State University)

A26-00249: *A Novel Wideband Dual-Circularly Polarized Patch Antenna for SatCom Applications*
Muhammad Iqbal (Oklahoma State University), Syed Jehangir (Oklahoma State University)

A26-00183: *Broadband Radial Near Magnetic Field Probe*
James McLean (TDK Corp.)

A26-00234: *Systematic Resonance Detuning and Power Coupling Enhancement of Antennas in a Reverberation Chamber*
Mohammad Abedi (University of New Mexico), Sameer Hemmady (University of New Mexico), Edl Schamiloglu (University of New Mexico), Christos Christodoulou (University of New Mexico)

A26-00226: *Optimizing Distance-Cluster Windows for Absolute Antenna Gain Measurements in Sub-THz Bands*
Asad Husein (University of Oulu), Kimmo Rasilainen (University of Oulu), Juha-Pekka Mäkelä (University of Oulu), Aarno Pärssinen (University of Oulu), Marko E. Leinonen (University of Oulu)

A26-00244: *Ku-/Ka-Band Shared-Aperture Antenna for Satellite and 5G Communication*
Hina Munsif (COMSTS University Islamabad, Abbottabad, Pakistan), Muhammad Ikram (College of Engineering and Applied Sciences, American University of Kuwait, Salmiya, Kuwait), Abdulrahman Alqadami (Department of Electrical Engineering, King Fahd University of Petroleum and Minerals, Saudia), Syed Jehangir (School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, OK, USA)

A26-00255: *Improved Fast TIS Measurement in a Reverberation Chamber via Quality-Based Sample Filtering*
Jun Luo (ETS-Lindgren), Mingfei Xie (ETS-Lindgren), Jerry Burns (ETS-Lindgren), Edwin Mendivil (ETS-Lindgren), Michael Christopher (ETS-Lindgren), Laura Burris (ETS-Lindgren)

A26-00193: *Ultra-Wide Band Dual Circular Polarization Antenna*
Yuya Yokota (Ohmplus Technology Inc.), Chih-Wei Chiu (Ohmplus Technology Inc.), Chih-Yuan Chu (Ohmplus Technology Inc.), Hsi-Tseng Chou (National Taiwan University), Suyun Wang (National Institute of information and Communications Technology)

A26-00212: *Reduced-Line Planar Near-Field Measurement Using Double-Sampling Scan and Gaussian Process Regression*
Michitaka Ameya (AIST), Yuto Kato (AIST)

A26-00229: *xNFT: An Open Near-Field Antenna Measurement Software Suite*
Jason Merlo (Michigan State University), Mauro Ettorre (Michigan State University)

A26-00250: *AI-Enabled Self-Healing Antenna Systems for Robust Automotive V2X Communication in Harsh Environments*
Mohammad Pervez (Oakland University), Amanpreet Kaur (Oakland University), Kamran Mohammed (Chrysler)

A26-00252: *Energy-Efficient Wireless Communication in Mobile Devices*
Mohammad Pervez (Oakland University), Amanpreet Kaur (Oakland University), Kamran Mohammed (Chrysalis LLC)

A26-00210: *Performance Analysis of Antenna Sensors in UWB Radar-Based Noninvasive Human Activity Detection*
Rezaul Karim Mamun (The College of New Jersey), Mahrukh Khan (The College of New Jersey)

A26-00233: *Application of High-Frequency Modeling for MOSFET Response Under Large Signal Gate Injection*
Mohammad Abedi (University of New Mexico), Sameer Hemmady (University of New Mexico), Edl Schamiloglu (University of New Mexico), Payman Zarkesh-Ha (University of New Mexico)

Afternoon Break
3:10 - 3:40 pm

Session 12
Range Design, Instrumentation, and Characterization 2
3:40 - 5:00 pm

Chair: Claudio Curcio (Università di Napoli Federico II)

3:40 - 4:00 pm A26-00200: *Low-Cost Turntable Designed for RF Phased Array Antenna Active Element Pattern Measurement*
Rebekah Edwards (Baylor University), Taylor Martini (Baylor University), Jonathan Swindell (Baylor University), David Cox (Baylor University), Adam Goad (Baylor University), Austin Egbert (Baylor University), Charles Baylis (Baylor University), Robert Marks (Baylor University)

4:00 - 4:20 pm A26-00221: *Computational and Modelling Techniques for Optimizing iCATR Dual-Reflector Configuration to Support C to Ka-Band Antenna Characterization*
Jaswant Sharma (Space Applications Centre ISRO Ahmedabad), Jigar M Pandya (Space Applications Centre ISRO Ahmedabad), Sanjeev Kulshrestha (Space Applications Centre ISRO Ahmedabad), Milind B Mahajan (Space Applications Centre ISRO Ahmedabad)

4:20 - 4:40 pm A26-00270: *Distributed Sensor Coherence for Radar Applications*
Spencer Wallentine (STAR Dynamics Corporation), Brendan Wilson (STAR Dynamics Corporation), Jerry Jost (STAR Dynamics Corporation)

4:40 - 5:00 pm A26-00278: *Further Development of a Spectrally Filtered Matched Filtering Method for Fast Anechoic Chamber Evaluation Using Circular Scanning*
Yibo Wang (ETS-Lindgren), Zhong Chen (ETS-Lindgren)

Thursday, November 5

Session 13
Recent European Activities on Antenna Measurements (EurAAP/EuCAP Convened Session)
8:00 - 10:20 am

Co-Chairs: Tian Hong Loh (National Physical Laboratory, UK) and Francesco Saccardi (Microwave Vision Group, Italy)

8:00 - 8:20 am A26-00189: *RF Assessment of the Predicted Thermo-Mechanical Deformations of the Compact Antenna Test Range for HERTZ 2.0*
Cecilia Cappellin (TICRA), Pasquale Giuseppe Nicolaci (TICRA),

Giuseppe Valsecchi (Medialario), Claudio Franchini (Medialario), Mauro Maggioni (Medialario), Marco Pedrali (Medialario), Luis Rolo (ESA/ESTEC), Antonio Riccardi (ESA/ESTEC)

8:20 - 8:40 am A26-00195: *Recent Developments in Antenna Measurement for Future European Missions*
Ines Barbary (ESA-ESTEC), Eric van der Houwen (AKKODIS for ESA), Paul Moseley (ESA-ESTEC), Luis Rolo (ESA-ESTEC), Alexander Freyer (AKKODIS for ESA), Antonio Riccardi (STARION for ESA), Ainhoa Gorriti (AURORA for ESA), Daniel Churchill (AKKODIS for ESA), Elena Saenz (ESA-ESTEC)

8:40 - 9:00 am A26-00208: *Evaluation of Multiprobe Systems for Non Redundant Sampling Grids and Phaseless Measurements*
Jorge Calatayud Maeso (Universidad Politecnica de Madrid), Celia Fontá Romero (Universidad Politecnica de Madrid), Hector Cespedes Olaya (Universidad Politecnica de Madrid), Fernando Rodriguez Varela (Universidad Rey Juan Carlos), Ana Arboleya Arboleya (Universidad Rey Juan Carlos), Manuel Sierra Castañer (Universidad Politecnica de Madrid)

9:00 - 9:20 am A26-00235: *Investigating the Phase Uncertainty of a Multiprobe Antenna System for Complex Platform Testing*
Francesco Saccardi (Microwave Vision Group, MVG), Andrea Giacomini (Microwave Vision Group, MVG), Lars Foged (Microwave Vision Group, MVG), Thierry Blin (Microwave Vision Group, MVG), Nicolas Gross (Microwave Vision Group, MVG), Arthur Romeijer (Pulsaart by AGC)

9:20 - 9:40 am A26-00260: *Comparison of TARC-Based Radiation Efficiency of MIMO Antennas in an Anechoic Chamber and a Reverberation Chamber*
Jerdvisanop Chakarothai (National Institute of information and Communications Technology), Tian Hong Loh (National Physical Laboratory)

9:40 - 10:00 am A26-00263: *Real-Time Antenna Radiation Pattern Measurement Example of X-Band Horn Antenna*
Mohammad Azadifar (EM Path), Maxime Marchionno (EM Path), Mahdi Yousefi (EM Path)

10:00 - 10:20 am A26-00268: *Using Tightly Coupled Antenna Array Over an Arch to Achieve Ultra-Compact Spherical Scanner*
Fabien Ferrero (Université Côte d'Azur), Benoit Derat (Viavi Solutions Deutschland GmbH)

Morning Break
10:20 - 10:50 am

Session 14
Near-Field Measurements 2
10:50 am - 12:30 pm

Chair: Lars Jacob Foged (Microwave Vision Group)

10:50 - 11:10 am A26-00216: *A Generalized Sampling Theorem and Its Applications to Near-Field Antenna Measurements*
Kyriakos Kaslis (Antenna Systems Solutions)

11:10 - 11:30 am A26-00236: *Investigation of Planar Near-Field Technique for Group Delay Measurement of Frequency Converting Antenna Systems*
Daniel Müller-Remer (Rohde & Schwarz GmbH & Co. KG), Thorsten Lück (Rohde & Schwarz GmbH & Co. KG), Chiara Villante (Rohde & Schwarz GmbH & Co. KG), Francesco Saccardi (Microwave Vision Group, MVG), Jaydeep Singh (Microwave Vision Group, MVG), Andrea Giacomini (Microwave Vision Group, MVG), Nicolas Gross (Microwave Vision Group, MVG), Lars Foged (Microwave Vision Group, MVG)

11:30 - 11:50 am A26-00281: *Rapid Infrared Thermal-Film Screening of Feed Amplitude and Phase Imbalance in Patch Antenna Arrays*
Ion Kolkhuis Tanke (University of Wisconsin - Madison), Henry Czupryna (University of Wisconsin - Madison), Sumit Kumar (University of Wisconsin - Madison), Kevin Ryu (University of Wisconsin - Madison), Daniel van der Weide (University of Wisconsin - Madison)

11:50 am - 12:10 pm A26-00286: *Phased Array Calibration with High-Accuracy Near-Field Holographic Techniques: The Role of Spatial Sampling in Cross-Polarization Recovery*
Jorge Salazar (University of Oklahoma), Leandro Takeda (University of Oklahoma), Luis Felipe Moncada (University of Oklahoma), Alexis Oblitas (University of Oklahoma)

12:10 - 12:30 pm A26-00219: *Design, Development and Calibration of Golden Probe for Near-Field Measurement System*
Priyanshu (Space Applications Centre (ISRO)), Dinesh Jangid (Space Applications Centre (ISRO)), Indra Prakash (Space Applications Centre (ISRO)), Dharmendra Singh (Space Applications Centre (ISRO)), Jigar M Pandya (Space Applications Centre (ISRO)), Sanjeev Kulshrestha (Space Applications Centre (ISRO))

Lunch Break
12:30 - 1:50 pm

Lunch Line
12:30 - 12:50 pm

Lunch and Learn
12:50 - 1:50 pm

Electromagnetic Coupling , Antenna Effects, and Solutions for MRI Safety of Medical Implants
Ji Chen (University of Houston)

Chair: Vince Rodriguez (NSI-MI Technologies)

Session 15
Antenna Measurements 2
1:50 - 3:30 pm

Chair: Amanuel Haile (Boeing)

1:50 - 2:10 pm A26-00277: *Revisiting the Effects of Reference Point Selection on Antenna Gain Extrapolation and a Novel Method for Optimal Reference Point Search*
Yibo Wang (ETS-Lindgren), Zhong Chen (ETS-Lindgren)

2:10 - 2:30 pm A26-00239: *The Role of the Antenna's Reference Point and Number of Terms in the Extrapolation Method*
Teun van den Biggelaar (ANTENNEX BV)

2:30 - 2:50 pm A26-00259: *Neighbor-State Dependence of REV-Extracted Coefficients in Phased Array Calibration*
João Ferreira (Keysight Technologies, Katholieke Universiteit Leuven), Xiaoqian Jiang (Keysight Technologies, University of the Basque Country), Carles Navarro Manchón (Keysight Technologies), Dominique Schreurs (Katholieke Universiteit Leuven)

2:50 - 3:10 pm A26-00261: *Combined Reverberation/ Anechoic Chamber Characterization of OTA Noise Figure and G/T for Integrated Antenna Systems*
Roel Budé (ANTENNEX BV)

3:10 - 3:30 pm A26-00237: *Mode-Domain Translation for Compressed Sensing-Based Cylindrical Mode Filtering from Single-Cut Measurements with Offset Rotation*
Zhong Chen (ETS Lindgren), Yibo Wang (ETS Lindgren)

Afternoon Break
3:30 - 4:00 pm

Session 16
RCS Measurements 2
4:00 - 5:00 pm

Chair: Adam Petrus (BAE Systems)

4:00 - 4:20 pm A26-00269: *A Low-Cost Approach to mmWave RCS Measurements for the Space Qualification of a 3D Printed Luneburg Lens*
James Bargeron (The Aerospace Corporation), Andrew Tillinghast (The Aerospace Corporation)

4:20 - 4:40 pm A26-00272: *3D Printed RCS Targets*
Spencer Wallentine (STAR Dynamics Corporation), Brendan Wilson (STAR Dynamics Corporation), William Carter (STAR Dynamics Corporation), Jerry Jost (STAR Dynamics Corporation)

4:40 - 5:00 pm A26-00276: *Simultaneous Co-Polarization and Cross-Polarization Calibration Using a Rotating Bruderhedral*
Brendan Wilson (STAR Dynamics), Jeffrey Godman (National RCS Test Facility), Spencer Wallentine (STAR Dynamics), William Carter (STAR Dynamics Corporation), Timothy Conn (STAR Dynamics), Jerry Jost (STAR Dynamics)

5:00 - 6:00 pm IEEE Standard 1128 (RF Absorber Testing) Working Group Meeting
Chair: Zhong Chen (ETS-Lindgren)
Room: Boardroom

Exhibit Hall

Schedule

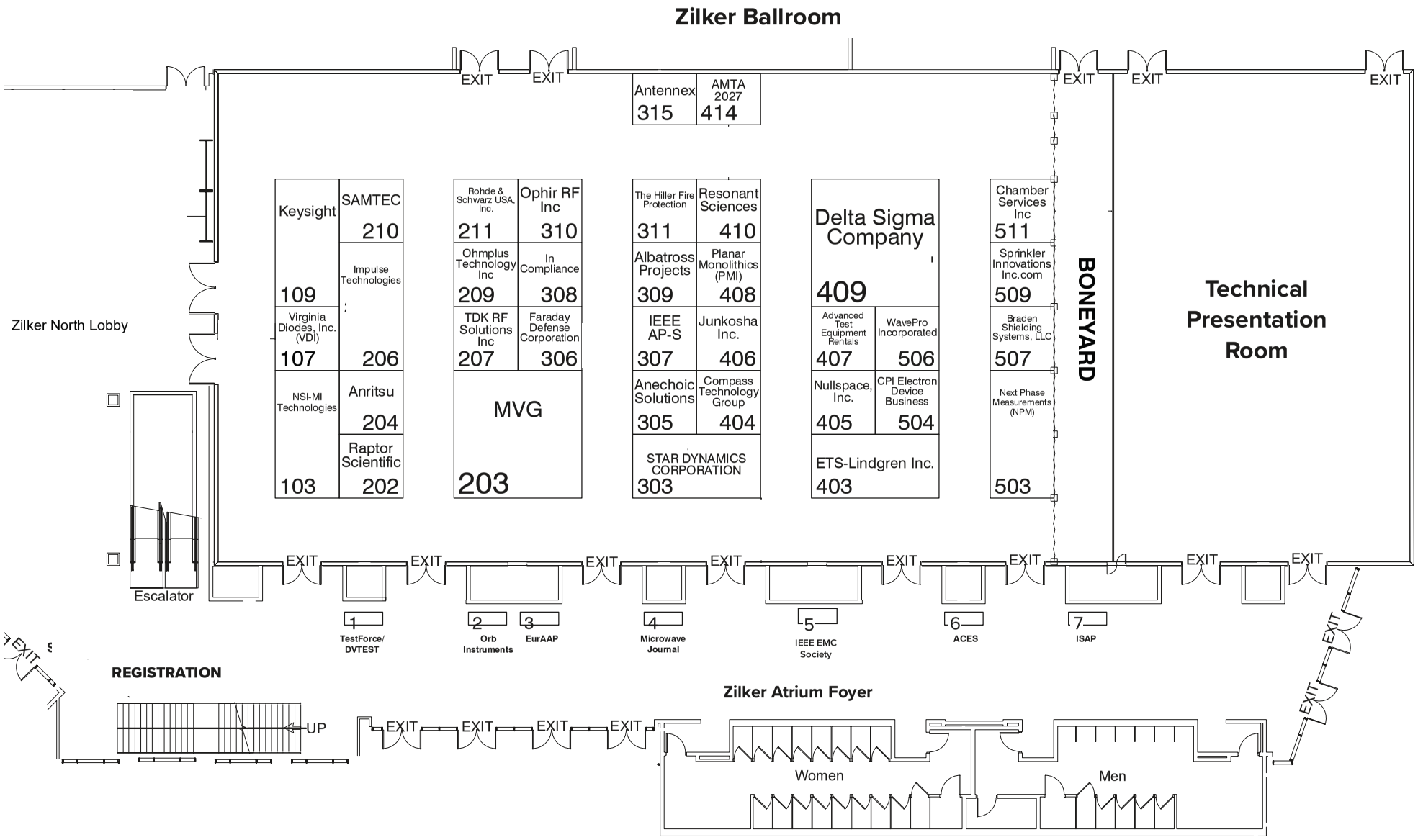
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10 a.m. - 5 p.m.

Tuesday
November 3
9 a.m. - 5 p.m.
(Closed during Business Lunch from 11:30 a.m. - 1:30 p.m.)

Wednesday
November 4
9 a.m. - 5 p.m.

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