

# Invitation

# Symposium Benefits

The National Institute of Standards and Technology (NIST) is proud to host the 44th Annual Meeting and Symposium of the Antenna Measurement Techniques Association (AMTA) in the Mile High City of Denver, Colorado, USA from **October 9 - 14, 2022**. NIST and co-hosts National Voluntary Laboratory Accreditation Program (NVLAP) and Colorado School of Mines cordially invite you to attend and participate in this annual event.

AMTA is a non-profit, international organization dedicated to the development and dissemination of theory, best practices and applications of antenna, radar signature and other electromagnetic measurement technologies.

Visit [www.amta.org](http://www.amta.org) for more information.

- High-quality technical papers presented on a continuous basis over four days
- A practical, full day short course related to antenna measurements
- Exhibits showcasing antenna and measurement related products and services
- The latest innovations in antenna and Radar Cross Section (RCS) measurements
- Known leading companies related to antenna measurements products and services will be presenting and exhibiting
- Networking opportunities with industry experts
- A technical tour highlighting techniques related to the industry
- Unique social events in and around the Denver area
- Daytime companion tours to area highlights

For more information about AMTA 2022, please visit [www.2022.AMTA.org](http://www.2022.AMTA.org) or contact:

**Jeff Guerrieri, AMTA 2022 Host Chair**  
National Voluntary Laboratory Accreditation Program (NVLAP)  
[host@amta.org](mailto:host@amta.org)

Hosted by

**National Institute of Standards and Technology**  
100 Bureau Drive, MS 2140  
Gaithersburg, MD 20899  
[www.nist.gov](http://www.nist.gov)

AMTA 2022  
National Institute of Standards and Technology  
100 Bureau Drive, MS 2140  
Gaithersburg, MD 20899 USA



44th Annual Meeting and Symposium of the Antenna Measurement Techniques Association



**October 9 - 14**

# CALL FOR PAPERS



Hosted by

# NIST

Co-Hosted by

# NVLAP





# Call for Papers

Authors addressing advancement and innovation in these or other topics of interest to AMTA are invited to submit a 250-350 word abstract for review as a possible candidate for presentation at the Symposium.

## Topics of Interest

- 5G wireless technology
- IoT and M2M applications
- Massive MIMO advances
- Medical advances
- Hardware in the Loop
- Antennas and radar in automotive applications
- mmWave, terahertz and quasi-optical antenna measurement
- Theory and applications of the measurement of antennas and radar scattering
- Advances in indoor and outdoor test ranges
- Measurement standards and laboratory comparisons
- Advances in near-field, far-field, compact and RCS range measurement techniques
- New instrumentation for testing
- Data acquisition and processing methods
- Measurement imaging, algorithms, and processing techniques
- Diagnostic methods for antenna acceptance testing
- Phased array, adaptive/smart antenna applications and measurements
- EMI/EMC/PIM chamber design, measurement, and instrumentation
- GNSS, PCS, cellular, satellite antennas and measurement
- RF material design, measurement, and instrumentation
- Ultra-wideband or frequency independent antenna measurement
- Applied computational electromagnetics
- Numerical methods related to EM measurements
- Multi-link MIMO and cooperative channels
- In-situ testing and channel sounding
- Other antenna measurement topics



# Submit an Abstract

Electronic submission of abstracts is required. Abstract submission will begin in the March 2022 timeframe. For details on abstract submission, please refer to the AMTA 2022 website: [www.2022.AMTA.org](http://www.2022.AMTA.org). Submission requires an account and password; account registration is free. Questions may be referred to: [technical-coordinator@amta.org](mailto:technical-coordinator@amta.org). NOTE: Authors of accepted AMTA papers have the option of including their paper on IEEE Xplore.

# Student Papers

AMTA 2022 will award at least three (3) Best Student Paper Awards. Each student award recipient will receive a \$500 USD cash award, a complimentary registration at AMTA 2023, and a one (1) year AMTA membership, active through December 31, 2023.

Award recipients are required to present their papers at the AMTA 2022 Symposium. Student paper guidelines will be sent upon acceptance of the abstract. Authors are asked to mark their abstract as “Student Paper” when submitting. NOTE: Authors of accepted AMTA student papers have the option of including their paper on IEEE Xplore.

## Student Travel Scholarship

The scholarship is designed to encourage students interested in electromagnetics with an emphasis on antennas. It is open world-wide to undergraduate juniors and seniors as well as Masters and first year PhD students.

Students must show a demonstrated interest in electromagnetics and/or in antennas and be able to attend the AMTA 2022 symposium. Award winners will receive travel funding up to \$2000 USD to attend the symposium as well as many other benefits. In order to apply, students must submit:

- An essay about his/her interest in AMTA, antennas, radar, or/and electromagnetic related field, giving background and plans for the future
- A resume which includes course listings with grades received
- A letter of recommendation from an AMTA Senior Member or Fellow who is not a sitting Board Member or a member of the scholarship selection committee

**Submission deadline: May 1, 2022**  
Award announcement: June 13, 2022  
See [www.amta.org](http://www.amta.org) for complete details or contact the Scholarship Chairman at [scholarship@amta.org](mailto:scholarship@amta.org)

# Host Hotel

**The Westin Westminster**  
10600 Westminster Blvd., Westminster, CO 80020  
Phone: +1-303-410-5000  
[marriott.com/hotels/travel/denww-the-westin-westminster](http://marriott.com/hotels/travel/denww-the-westin-westminster)

Rooms are available at the AMTA group rate of \$199 USD plus tax for single or double occupancy, available on a first come, first serve basis for reservations made by September 23, 2022. The AMTA group rate includes complimentary high-speed internet access in the guest room.

NOTE: A limited number of rooms are available at the government per diem rate. Early reservations are recommended.

Welcome to Denver, where 300 days of sunshine, a thriving cultural scene, diverse neighborhoods, and natural beauty combine for the world’s most spectacular playground. A young, active city at the base of the Colorado Rocky Mountains, Denver’s stunning architecture, award-winning dining and unparalleled views are all here, year-round.

The Four-Diamond Westin Westminster, with Colorado’s breathtaking Rocky Mountains as a backdrop, is ideally situated between Boulder and Denver, providing convenient access to downtown area attractions as well as abundant outdoor recreation activities. With 257



guestrooms and more than 76,000 square-feet of meeting space including six distinct outdoor event areas, the Westin Westminster offers the largest meeting space between Denver and Boulder. Located in the Westminster Promenade, the hotel is within walking distance to a variety of shops and restaurants, and adjacent to the 205-acre regional Westminster City Park. Set time aside to discover the many wonderful local dining options, fabulous shopping, take in a round of golf at one of the many nearby courses, or explore the area’s more than 50 miles of scenic walking and cycling trails.

# Deadlines

250-350 word email abstract: **May 1, 2022**  
E-mail notification of acceptance: **June 7, 2022**  
Manuscript submission deadline: **July 24, 2022**

We understand that some authors may be required to submit their abstracts, papers, and presentations for public release approval. Please start this process early so that you can meet the above deadlines.