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QUARTERLY EMAIL BLAST

OFFICIAL NEWSLETTER OF THE IEEE AEROSPACE AND
ELECTRONIC SYSTEMS SOCIETY - Q4 2024

FROM THE EDITORS

Dear AESS Members,

Welcome to the final edition of the QEB for this year, bringing you updates and articles from the AESS community.

In this issue, we wish to take a moment to honor the memory of our dear colleague Michael Braasch, who recently passed away. Michael was a highly valued member of the AESS community, who will be deeply missed.

This edition also features an interview with Baisakhi Bandyopadhyay, chair of the Student Branch at IIT Kanpur, as well as two engaging reports from students who participated in the MIT Undergraduate Research and Technology Conference. In our member news, you can read from Nathan Misaghi, who won the Open Source Paper Award at RADAR 2024 for his contribution of an open source passive radar.

Our history column revisits the groundbreaking experiment by Appleton and Barnett to measure the height of the ionosphere. Additionally, we share updates from our active Student Chapters and Sections, highlighting events such as the canned satellite competition organized by the AESS Columbia Section and the fly-in breakfast hosted by the AESS Canaveral Section.

We hope you find this edition meaningful and inspiring as we reflect on the year past.

Best,
Philipp Markiton
Editor-in-Chief, AESS QEB



Thank You, AESS Community!

In 2024, the AESS Virtual Distinguished Lecturer webinar series hosted 30 online webinars with nearly 3,000 attendees joining us from over 70 countries around the world. This virtual format provides members of the AESS community greater access to talks from industry experts. You can watch all previously recorded webinars and tutorials on the IEEE Learning Network.

[Watch Here](#)

Features

The logo for AESS Student Interviews, featuring the acronym 'AESS' in a large, white, stylized font with a swoosh underneath. Below it, the words 'STUDENT INTERVIEWS' are written in a smaller, white, sans-serif font. The entire logo is set against a dark blue background with rounded corners.

STUDENT
INTERVIEWS

AESS Student Interviews

Read Baisakhi Bandyopadhyay's insights on her journey in aerospace systems in this AESS Student Interview. Learn about her experiences, challenges, and goals as a member and chair of Indian Inst of Technology-Kanpur Student Branch Chapter.

Also read about Rahul Shanmugam and Esteban Rodriguez experience at the IEEE MIT Undergraduate Research Technology Conference (URTC), held over three days at the Ray and Maria Stata Center on the MIT campus in Boston, MA.

[Read More](#)



the
HISTORY
column

Experiment to Measure the Height of the Ionosphere

In 1924–1925, Edward Appleton and Miles Barnett measured the ionosphere's height, confirming its reflective layer at 80–90 km using BBC broadcasts. Their work advanced radio wave propagation understanding and pioneered passive radar techniques. Appleton later earned the Nobel Prize for this achievement.

[Read More](#)


2025 Fellows Announced

Congratulations to the following members on their elevation by AESS to Fellow - **Paolo Braca and Krzysztof Kulpa**.

IEEE Fellows nominations are now open through **7 February 2025**. Nominate today!

[Read More](#)


AESS Awards Deadline Approaching

Submit a nomination by January 31, 2025 for the following AESS Awards:

- Fred Nathanson Memorial Radar Award
- Harry Rowe Mimno Award
- Chapter of the Year Award*
- Distinguished Service Award*
- Early Career Award*
- Industrial Innovation Award*
- Judith A. Resnik Space Award*
- Pioneer Award*
- M. Barry Carlton Award
- Warren White Award

*Indicates a deadline extension from December 1, 2024.

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In Memoriam: Michael Braasch

The IEEE AESS community mourns the loss of Michael Braasch, AESS President-Elect and a highly respected colleague, whose contributions to aerospace and electronic systems will leave a lasting impact. His dedication, leadership, and expertise will be deeply missed by all who had the privilege to work with him.

[Read More](#)

Young Professionals Event at 2024 RADAR

The Young Professionals event at the 2024 International Radar Conference provided attendees with a valuable opportunity to connect and collaborate with peers and experts in the radar community. This networking event fostered professional growth through meaningful connections.

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Meet the 2025 AESS Officers and BoG Members

The IEEE AESS has announced its 2025 Officers and Board of Governors, who will lead the society in advancing aerospace and electronic systems innovation. The officers were elected at the Fall 2024 BoG Meeting in Rennes, France, held during RADAR 2024, and bring a wealth of expertise and vision to guide the society's mission in the coming year.

[Read More](#)

IEEE Senior Member Elevations

Nominations for IEEE Senior Member elevations are open year-round, offering members the opportunity to advance their professional recognition within IEEE. Visit the IEEE AESS website to view the 2024 elevations and learn more about the nomination process.

[Read More](#)



Open Source Paper Award Winners at RADAR 2024

Congratulations to Nathan Misaghi, Michael Parker, and Brian Ng for winning the Best Open Source Paper Award for the paper entitled "Target Localisation in Real Time for Non-Coherent Multistatic Passive Radar" at the 2024 International Radar Conference in Rennes, France.

[Read More](#)

CHAPTER NEWS

IEEE AESS Canaveral Section

The Canaveral Section Chapter's November 2 Fly-in Breakfast at Arthur Dunn Airpark featured aircraft displays, skydivers, a hangar tour, and a Gyroplanes session by IEEE's Ott Thiele. It also marked the chapter's launch and annual planning meeting.

[Read More](#)

IEEE AESS Boston Section Chapter Demonstrated Global Collaboration in 2024

The IEEE AESS Boston Chapter held four 2024 meetings, including two Distinguished Lectures and global collaborations on UAVs and AI assurance, with plans to expand international efforts and support early career professionals and women in tech.

[Read More](#)

AESS Colombia, Granada Univ Militar Nueva Host Cansat Colombia

CanSat Colombia 2024 inspired students and young professionals to design, build, and launch miniature satellites, fostering hands-on learning and innovation in aerospace engineering. Discover how this event is shaping the future of aerospace technology and empowering the leaders of tomorrow in Region 9.

[Read More](#)

National Engineering School of Sfax (ENIS) Hosts Successful Tunisian Engineering Congress Week: TECWeek 1.0

The inaugural TecWeek brought together over 130 participants, including professors, experts, and distinguished lecturers, for a landmark event in space technology and innovation and featured engaging online sessions and hands-on workshops, fostering knowledge-sharing and collaboration.

[Read More](#)

Higher National Engineering School of Tunis (ENSIT) Hosts ASTRONOMICA 4.0, Distinguished Lecturer Dr. Marina Ruggieri

Astronomica 4.0 on November 23 explored how aerospace technology can combat climate change. With hands-on workshops, an engaging Ideathon, and expert talks on topics like satellite-based water management and space sustainability, the event celebrated innovation and sustainability in aerospace.

[Read More](#)

The NASA Space Apps Cairo 2024 Hackathon brought together innovators, problem-solvers, and tech enthusiasts to tackle real-world challenges using space data. This milestone event highlighted the power of collaboration, creativity, and community engagement, leaving a lasting impact on participants and showcasing groundbreaking solutions. Read more about this inspiring initiative and its outcomes. AESS sponsored the event.

Welcome New AESS Chapters

AESS has over 185 chapters around the world including 106 Student Branch Chapters.

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👏 AESS welcomes its newest chapters:

- Algeria Section
- BMS Institute of Technology
- Canaveral Section
- De La Salle University
- Hawaii Section
- Kerala Section
- Sai Vidya Institute of Technology
- Santa Clara Valley Section
- Universidad de Ingenieria y Tecnologia
- Universidad San Ignacio De Loyola

Publications

[IEEE Transactions on Aerospace and Electronic Systems \(TAES\)](#)

Call for Papers for Special Issue: Near-Field Radar Technologies and Applications

TAES is inviting submissions for a special section dedicated to advancing 6G near-field radar technologies. This special section aims to highlight pivotal research, innovations, and theoretical insights that are crucial for shaping the next generation of wireless systems, emphasizing the significance of 6G nearfield radar, and it explores the unique capabilities and challenges posed by these advanced radar systems when operating in 6G contexts. Contributions are encouraged to address cutting-edge topics, including the integration of multi-antenna systems such as reconfigurable intelligent surfaces and holographic MIMO, which promise to revolutionize radar applications in 6G and beyond.

Manuscript submissions are due 15 January 2025. Learn more [here](#).

TAES Announces New Technical Area Lead for Aerospace Information Systems

TAES has been receiving an increasing number of papers on this thematic area. To see the full list of topics in this area visit the [website](#).



Read the Latest Issue

AIS research.

This new technical area will be headed by [Dr. Umut Durak](#) from DLR. Dr. Durak is bringing in more than two decades of cutting-edge technology development and evaluation expertise on this field to TAES. In 2025, we will be introducing a dedicated Special Section on AIS to commemorate the first year of this technical area. More information on the specific call for papers will announced in 2025.

[IEEE Aerospace and Electronic Systems Magazine \(MAES\)](#)

IEEE Aerospace and Electronic Systems Magazine is a monthly magazine that publishes articles concerned with the various aspects of systems for space, air, ocean, or ground environments as well as news and information of interest to IEEE Aerospace and Electronic Systems Society members.

If you are interested in serving as an Associate Editor or paper review, contact [Editor-in-Chief Pau Closas](#).



[Read the Latest Issue](#)

[IEEE Open Journal of Systems Engineering](#)

Updated 2025 Publication Charges

For 2025, publication costs are projected to be \$1,037.50 (USD) for a 10-page manuscript. Manuscripts for OJSE are submitted at <https://ieeepress.org/journal/ojse>.

[Learn more about OJSE](#)



[Read the Latest Issue](#)

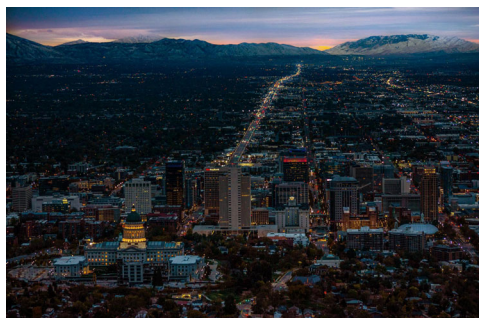
Conferences

aspects of our Field of Interest. Refer to the conference website for the most recent information.



AUTOTESTCON 2025: Call for Abstracts

Join IEEE and AESS at IEEE AUTOTESTCON 2025 in National Harbor, MD! Connect with experts from the military/aerospace automatic test industry and government acquirers at the premier event in the field. Submit your abstract by February 15, 2025!

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2025 PLANS Registration, Program Now Available

PLANS is being held in person, April 28 - May 1, 2025, at the Salt Lake Marriott Downtown at City Creek in Salt Lake City, Utah. The technical program for IEEE/ION PLANS 2025 is now available online and registration is open!

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