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QUARTERLY EMAIL BLAST

OFFICIAL NEWSLETTER OF THE IEEE AEROSPACE AND ELECTRONIC SYSTEMS SOCIETY
Q2 2023

FROM THE EDITORS

Dear AEES Members,

We are happy to announce the second edition of our society's newsletter for 2023! Here's a sneak peek at what you can expect from this edition:

History Column: You will learn about the history of one of the first over-the-horizon radars.

Event Updates: Stay informed about upcoming AESS sponsored conferences, workshops, and summer schools happening around the world.

As always, we welcome your feedback and suggestions. If you have any ideas or wish to contribute to future editions, please don't hesitate to reach out to us.

Francesca Filippini and Philipp Markiton
Editors-in-Chief, AESS QEB

The graphic features the words "Special Message" in a large, elegant, cursive script. Above the text is a blue paper airplane with a dashed blue line indicating its curved flight path. Below the cursive text, the words "FROM THE PRESIDENT" are written in a clean, uppercase, sans-serif font. The background consists of a light gray geometric pattern of overlapping triangles.

To the IEEE Aerospace & Electronics Systems Society -- Present and Future Members,

2023 is the Golden Anniversary of AESS and it continues to be celebrated in several Conferences during the year. We celebrated this 50th Anniversary to focus on the historic growth in AES Technical Innovation and providing the future applications for worldwide development of technologies through our conferences and publications.

2023 has been very rewarding in terms of new directions for AESS. The 2023 Distributed Sensing Technology and Education Initiative (DSTEI) has started to provide awareness of the Society in Region 9 (South America) and Region 10 (India) through development of Student Branch Chapters. New AESS student members and Young Professionals are the future for the aerospace engineering fields of interest.


We have had two very impressive conferences (Aerospace in March and Radar in May). The number of attendees from academia and industry from many IEEE Regions have provided a major turnaround in attendance. In addition, the YP and Tutorials events have been significantly enhancing. These encouraging results will continue for the future AESS sponsored conferences at AUTOTESTCON in Washington, DC; FUSION in Charleston, SC; and Radar in Sydney, Australia. AESS has a few travel grants for students and young professionals.

Now that we can travel, several workshops, technical competitions and short courses can provide beneficial education for our students and YPs. There are several new Distinguished Lectures projects being archived in the IEEE Learning Network, and to expand the educational environment for more growth of benefits in System Technology to our members.

Please take a look at the new [AESS website](#) and plan on inviting your colleagues to join as new members in 2023.

Upcoming Events

[Advances in Digital Avionics and Space Systems - Roberto Sabatini](#)

 Thursday, 22 June - 11:00 AM ET/3:00 PM UTC


[Abstract](#) | [Register](#)

[Quantum Algorithms for Aerospace and Electronic Systems: Basics, Trends, Applications - Wolfgang Koch](#)

 Wednesday, 28 June - 11:00 AM ET/3:00 PM UTC


[Abstract](#) | [Register](#)

[Design and Simulation of Nanosatellites - Avid Roman-Gonzalez](#)

 Thursday, 13 July - 11:00 AM ET/3:00 PM UTC


[Abstract](#) | [Register](#)

[Delay/Disruption-Tolerant Networking \(DTN\) for Deep Space Networks - Ruhai Wang](#)

 Thursday, 6 July - 11:00 AM ET/3:00 PM UTC

[Abstract](#) | [Register](#)

Features



Story Behind
the Success

Justin Metcalf Receives Nathanson Award

The [Fred Nathanson Memorial Radar Award](#) is in honor of the late Fred Nathanson and is sponsored by the AESS Radar Systems Panel. The purpose of this award is to grant international recognition for outstanding contributions

Hear from this year's recipient, [Justin Metcalf](#), and learn more about his journey that started at Kansas State University.

[Read More](#)

The History Column: COBRA MIST

Orfordness is a remote, low-lying, gravel-covered spit of land on the east coast of England, some 10 km long by 2 km wide. It was used by the British Air Ministry for weapons testing, and also by Robert Watson Watt and his team of scientists for their early experiments on radar in 1935, till they moved to Bawdsey Manor (about 10 km south of Orfordness) in March 1936. It is now a nature reserve, owned by the National Trust.

[Read More](#)

2023 AESS and RadarConf Award Recipients

Visit our website and nominate a deserving colleague for a 2024 award.

[Read More](#)

2023 Joint IEEE SPS-AESS and EURASIP Summer School on ISAC

Register today for the upcoming Summer School jointly sponsored by IEEE Signal Processing Society, AESS, and EURASIP on on Integrated Sensing and Communication: A Multidisciplinary perspective!

It will take place in Parador de Baiona, the old Monterreal castle in Baiona, Spain, close to the city of Vigo starting on 26 June 2023.

[Read More](#)

Member News



New BoG Student Reps

Jemma Mallia and Abir Tabarki were selected by the BoG as Graduate and Undergrad Student Reps, respectively, for 2023.



[Space 2.0 Book Announced](#)

The AESS Glue Tech for Space Systems Panel members contributed and authored chapters in the upcoming book.



[2023 Travel Grants](#)

Applications for the AESS Young Professionals travel grant to AUTOTESTCON are due 26 June 2023.



[Spring 2023 BoG Meeting](#)

The AESS Board of Governors met in San Antonio, TX, USA in conjunction with RadarConf'23.

CHAPTER NEWS

Lone Star Section Joint AESS/SMC/SYSC Chapter Q2 2023 Activities

The chapter hosted a drone demo with more than 75 students at the Fiesta de Los Ninos, an annual large STEM event focused on students and their families at Port San Antonio.

Dr. Karen Haigh provided a lecture and short course on Cognitive EW at UTSA's National Security Collaboration Center and SWRI, respectively.

Walt Downing and Garrett Hall presented Team Taarakian with the "UTSA Technology Symposium 2023 Special Recognition" award during the University of Texas at San Antonio's Tech Symposium.

Ohio University Hosts Switzerland Chapter Chair

Ohio University Professor and AESS VP Technical Operations, Michael Braasch, hosted a talk with the AESS Switzerland Chapter Chair, Heinz Wipf, for a talk on Swiss Jamming Trials.

[Read More](#)

Galveston Bay Section Chapter to Host History Colloquium

To celebrate the AESS 50th Anniversary, the Galveston Bay Section Chapter with the IEEE Region 5 History Committee are hosting the Aerospace History Colloquium on Saturday, 15 July at the University of Houston Clear Lake.

[Read More](#)

Welcome New AESS Chapters in 2023

AESS has 124 chapters around the world including 51 Student Branch Chapters.

👋 AESS welcomes its newest chapters in Q2 2023:

- Guru Nanak Dev Engineering College-Bidar (R10)
- KLE Societys Institute of Tech (R10)
- Manipal Institute of Technology (R10)
- P A College Of Engineering-Mangalore (R10)
- Reva University (R10)
- Technical University of Kenya (R8)
- University of Jordan (R8)
- Yarmouk University (R8)

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Publications

IEEE Transactions on Aerospace and Electronic Systems (TAES)

IEEE Transactions on Aerospace and Electronic Systems (TAES) focuses on the organization, design, development, integration, and operation of complex systems for space, air, ocean, or ground environment. These systems include, but are not limited to, navigation, avionics, spacecraft, aerospace power, radar, sonar, telemetry, defense, transportation, automated testing, and command and control.

[Call Board](#)

[2019 M. Barry Carlton Award Winner](#)

The M. Barry Carlton Award is an annual award recognizing the best paper published in the Transactions on Aerospace and Electronic Systems.

Dual-Function MIMO Radar Communications System Design Via Sparse Array Optimization by Xiangrong Wang, Aboulnasr Hassanien, Moeness G. Amin.

TAES vol. 55, no. 3, pp. 1213-1226. Published June 2019.

[DOI 10.1109/TAES.2018.2866038](https://doi.org/10.1109/TAES.2018.2866038)

Recent Issues

[June 2023](#)

[April 2023](#)

[February 2023](#)

IEEE Aerospace and Electronic Systems Magazine (MAES)

The 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.

[Current Issue](#)[Special Issues](#)

Special Issue: Deep Learning Assisted Computer Vision and Visual Analytics in Autonomous Unmanned Aerial Vehicles

The deadline to submit manuscripts is **31 August 2023**. This special issue aims to showcase the latest advancements in this emerging field, featuring original research articles, reviews, and case studies. [Download CFP](#)

Recent Issues

AESS Co-Sponsored Publications

IEEE Open Journal of Systems Engineering: Special Issue Deadline

The manuscript submission deadline for the *Special Issue on Special Issue on System Engineering Processes for Predictive Maintenance of Electrical Machines through Internet of Things* is **1 September 2023**.

[Read More](#)

IEEE Journal of Lightwave Technology Celebrates 40th Anniversary

The JLT celebrated its 40th Anniversary during the Optical Fiber Communications (OFC) Conference held at the San Diego Convention Center, 7-9 March. Guest speakers included the current EiC Gabriella Bosco and founding EiC Dr. Tom Giallorenzi, who started the journal in 1983.

[Read More](#)

IEEE Transactions on Radar Systems


The newly launched T-RS is accepting paper submissions for the upcoming special sections - Innovations in Radar Spectrum: Deconfliction, Containment, Sharing and Multifunction deadline extended to July 15; and Advances in Radar Imaging due 15 October.

[Read More](#)

Conferences

AESS financially and technically sponsors and co-sponsors conferences addressing important aspects of our Field of Interest. Please refer to each conference website for the most up-to-date information.

Do you have a conference you'd like advertised in the AESS Quarterly Email Blast? Contact the [AESS Operations Manager](#) for details on how to have it included.



INTL RADAR 2023
6-10 November 2023
Sydney, Australia

[International Radar 2023](#)

Experience this once in a lifetime opportunity to explore the radar industry in Australia's most exciting city. The program at a glance is now available. Early Bird registration will be available until **6 July 2023**.

[Read More](#)



DASC 2023
1-5 October 2023
Barcelona, Spain

[DASC 2023](#)

The AESS [Avionics Systems Panel](#) and [Cyber Security Panel](#) are offering a free tutorial "Intelligent Cyber-Physical Systems for Integrated Air and Space Transport Operations" at [DASC 2023](#).

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List of AESS Sponsored Conferences

AESS Conference Guidelines



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