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# QUARTERLY EMAIL BLAST

OFFICIAL NEWSLETTER OF THE IEEE AEROSPACE AND ELECTRONIC SYSTEMS SOCIETY  
Q1 2023

## FROM THE EDITORS

Dear AESS Members,

Welcome to the first QEB of this year, we hope you all had a great start into 2023. This year marks the 50th anniversary of the AES society, and we have planned many activities to celebrate this important milestone with all of you! The first celebration was held on 15 February. Scroll through this newsletter to learn more.

at the Rising Stars Conference. You will find articles about both events in this edition.

Furthermore, you will find an inspiring story behind the success from the recipient of the Robert T. Hill Best Dissertation Award 2022, and you will learn about the Moonshine equipment in our History Column.

We hope that you will enjoy the first edition of the QEB for 2023! We look forward to your suggestions, comments, complaints, and ideas to make this newsletter increasingly useful and interesting.

Have fun reading!

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



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

The year 2022 has been very rewarding in terms of new directions for AESS. The new 2023 Distributed Sensor Technology and Education Initiative (DSTEI) will 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. Our Society's Objective is to provide the opportunity and transition potential of emerging technologies for furthering their careers in under resourced communities. Our technical community is growing by strengthening Radar Summer Schools, Cyber Security, Fusion, Glue Technologies for Space Systems, and Navigation Systems Panels.

2023 is the Golden Anniversary of the AES Society and was celebrated on [15 February 2023](#). The Society was formed from Technical Groups of the Institute of Radio Engineering, based on the breakthrough in Space Systems, Global Positioning Systems and the advent of Monolithic Integrated Circuits. These technologies have led to a significant growth in small sensors, high speed imbedded signal processing, and military and civilian sensor and navigation applications. 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. This celebration will be continued during the year at our Conferences and Chapter Summits.

In the past two years, we have been leveraging virtual conferences and Distinguished Lectures for the benefit of our chapters and student branch chapters. Several workshops, technical competitions and short courses have provided beneficial education for our AESS Students and Young Professionals. There are several new Distinguished Lectures

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


Mark E. Davis

IEEE AESS President (2022-2023)

## Upcoming Events


### [AESS Virtual Panel: How to Succeed in Your Engineering Career](#)

**Panelists:** Arik Brown (Northrop Grumman), Stefano Coraluppi (Systems & Technology Research (STR)), Puneet Kumar Mishra (Indian Space Research Organization), Bob Rassa (Raytheon, Retired), and Dr. Francesca Scire-Scappuzzo (Independent Consultant and Advisor)

 Friday, 17 March - 10:00 AM ET/2:00 PM UTC


[Abstract](#) | [Registration](#)

### [Ultra Wideband Surveillance Radar - Mark E. Davis](#)

 Tuesday, 21 March - 11:00 AM ET/3:00 PM UTC

[Abstract](#) | [Registration](#)

### [Evolving Cyber Systems in Avionics - Kathleen Kramer](#)

 Tuesday, 6 April - 11:00 AM ET/3:00 PM UTC


[Abstract](#) | [Registration](#)

### [Introduction to MIMO Radar Waveforms - Hongbo Sun](#)

 Thursday, 13 April - 9:00 AM ET/1:00 PM UTC

[Abstract](#) | [Registration](#)

### [Design of Efficient Electrical Power Systems for Small Spacecraft - Jesus Gonzalez-Llorente](#)

 Thursday, 20 April - 11:00 AM ET/3:00 PM UTC

[Abstract](#) | [Registration](#)

## Story Behind *The* Success

### 2022 IEEE AESS Robert T. Hill Best Dissertation Award

The Robert Hill Award recognizes candidates that have recently received a Ph.D. degree and have written an outstanding Ph.D. dissertation in the Field of Interest of the Aerospace and Electronic Systems Society.

Hear from this year's recipient, [Leonardo M. Millefiori](#), and learn about his journey from high school to landing a position at CMRE in La Spezia.

[Read More](#)

### AESS 50th Anniversary Celebration

On 15 February 2023, AESS members and leaders, IEEE, and industry members gathered in Princeton, New Jersey, USA. Check out the photos from the event on our [Facebook page](#).

[Watch the AESS Anniversary video](#) to learn more about the history of the Society and its activities.

[Read More](#)



## The History Column: Moonshine

Radar jammers often include pulse repeater modes. Modern systems may use a digital RF memory (DRFM), which digitizes incoming pulses, allowing them to be retransmitted multiple times with different time delays, amplitudes and Doppler signatures. However, the concept of pulse repeater jamming is not new and such techniques were first used in the UK in WW2, using an airborne equipment called Moonshine.

[Read More](#)

## 2023 Virtual Distinguished Lectures

Register today for one of the 27 remaining Virtual Distinguished Lecture webinars in 2023.

Registration is free but required. The webinars will be recorded and made available after the event on the [IEEE Learning Network](#).

[Read More](#)

## Member News



### 2023 Rising Stars

AESS is a proud sponsor of the 2023 Rising Stars Conference. Kathleen Kramer presented on AESS and Evolving Cyber Systems in Avionics.



### 2022 TSYP Congress

More than 1000 students and YPs attended the event in Sousse, Tunisia hosted by IEEE ESPRIT Student Branch – Tunisia Section.



### 2023 Travel Grants

AEES is offering travel grants to AEES YP at three of its financially sponsored conferences this year.



### National Academy of Engineering 2023 Class

Alfonso Farina was selected as one of 106 Members and 18 International Members added in 2023.

## Region 1-7 Chapter Summit in Princeton, NJ, USA

In February 2023, AESS hosted Region 1-7 Chapter Chairs in conjunction with the AESS 50th Anniversary in Princeton, NJ, USA. Attendees included chapter officers from Atlanta, Binghamton, Boston, Denver, Fort Worth, Galveston, Huntsville, Lone Star, Ottawa, San Diego, Toronto, Utah, Vancouver, and Washington/Northern Virginia.

[Read More](#)

## AESS India Initiative Update

In March 2022, the AESS Board of Governors approved the AESS India Initiative. In less than 12 months, membership in India has grown from 155 members to 519 members - that's over a 300% increase! AESS welcomes two new section chapters and 13 new student branch chapters. Read more about this initiative led by BoG member, Puneet Kumar Mishra.

[Read More](#)

## Chapter Funding Now Available

AESS offers its chapters two opportunities for funding. Chapters are encouraged to apply annually for financial support of up to \$500 USD to fund local AESS chapter activities and small initiatives.

Chapters are also invited to submit proposals for major initiatives to increase the local impact of AESS, recruit new members, and provide additional benefits to existing members, especially young members. Requests for funding should use the application form found here. These requests are additional to the annual \$500 funding.

[Annual Funding Form](#)

[Major Initiatives Funding Form](#)

[Read More](#)

## Welcome New AESS Chapters in 2023

AESS has 117 chapters around the world including 44 Student Branch Chapters.

👋 AESS welcomes its newest chapters in Q1 2023:

- Faculty of Sciences of Sfax (FSS) (R8)
- Vidyalankar Institute of Technology (R10)

- Pune Section (R10)
- Universidad San Francisco de Quito (R9)

[Read More](#)

## IEEE NEWS

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### IEEE to Form Technical Council

Recognizing the momentous technical and societal trends occurring in transportation electrification, the IEEE recently approved the formation of a Technical Council focused on the subject, to be called the Transportation Electrification Council (TEC). TEC will be official on 1 January 2024.

[Read More](#)

### IEEE Foundation Celebrates 50th Anniversary

AESS would like to congratulate the Foundation on its 50th Anniversary! AESS partners with the Foundation on the management of the [IEEE Michael C. Wicks Radar Student Travel Grant](#).

[Read More](#)

## Publications

### IEEE Transactions on Aerospace and Electronic Systems

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.

[Current Issue](#)[Call Board](#)



## TAES Appoints New Editor-in-Chief Gokhan Inalhan

In January 2023, [Gokhan Inalhan](#), previously TAES Associate EiC, was appointed TAES EiC by the AESS Board of Governors. Gokhan is currently BAE Systems Chair, Professor of Autonomous Systems and Artificial at Cranfield University. Lyudmila Mihaylova will serve as the new [Associate EiC](#).

## Thank you, Michael Rice

AESS and TAES would like to thank former EiC (2018-2022), Michael Rice, for his tremendous efforts and leadership over the last five years. He oversaw tremendous growth for the Transactions as the editorial board grew by 50% and the number of published papers doubled. Such growth provides a number of challenges to maintain quality. Michael developed innovative processes to train incoming associate editors and manage expectations. He also oversaw the transition of the paper review system to the ScholarOne Manuscript Central portal. These initiatives significantly reduced the review timelines. The average submission to online post timeline for TAES is now in the top quartile of all IEEE journals at less than 32 weeks. During his tenure the impact factor has grown from 1.975 to 3.491. Again, we are thankful to Michael's stewardship of the Transactions over the past five years. *(Written by VP Publications, Lance Kaplan)*

### Recent Issues

[February 2023](#)

[December 2022](#)

[October 2022](#)

[August 2022](#)

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## IEEE Aerospace and Electronic Systems Magazine

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](#)

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### Submit a Special Issue Proposal

AES-M publishes, with a maximum of three times per year, special issues comprising multiple, interrelated tutorial papers that provide a comprehensive coverage of a specific topic of interest to the AES

If you are interested in proposing a special issue, visit the [AES-M webpage on our website](#).

## Recent Issues

[March 2023](#)

[February 2023](#)

[January 2023](#)

*50th Anniversary Issue*

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## AESS Co-Sponsored Publications

### IEEE Open Journal of Systems Engineering: Special Issue Deadline

The manuscript submission deadline has been extended for the *Special Issue on Front-end Need Analysis* to **15 April 2023**.

[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.

# RadarConf'26

## CALL FOR PROPOSALS



### [Host RadarConf'26](#)

Submit a proposal to host the 2026 IEEE Radar Conference. The formal notice of intent is requested by 1 June 2023 and the written proposal by 31 July 2023.

[Read More](#)

**DASC 2023**

**1-5 October 2023**

**Barcelona, Spain**

### [DASC 2023](#)

Join DASC in Barcelona, Spain! Submit your paper abstract by 1 April 2023.

[Download the Call for Papers](#)

[Conference Website](#)

[List of AESS Sponsored Conferences](#)[AESS Conference Guidelines](#)

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