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## QUARTERLY EMAIL BLAST

OFFICIAL NEWSLETTER OF THE IEEE AEROSPACE AND  
ELECTRONIC SYSTEMS SOCIETY - Q4 2023

## IN THIS ISSUE:

## FROM THE EDITORS

LETTER FROM THE  
PRESIDENT

Dear AESS Members,

STORY BEHIND THE SUCCESS

As the year winds down, we're excited to present the fourth edition of our newsletter—a culmination of insights, achievements, and the vibrant spirit of our community.

HISTORY COLUMN

2024 FELLOWS

You will find an inspiring story behind the success from the winners of the Best Student Paper Awards at the Int. Radar Conference in Sydney. Check also the conference announcements for next year! Maybe we will meet at one?

AWARDS DEADLINES

MEMBER NEWS

Wishing each of you a joyous holiday season and a great new year.

CHAPTER NEWS

EDUCATION NEWS

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

PUBLICATIONS NEWS

CONFERENCE NEWS



Special Message  
FROM THE PRESIDENT



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

upcoming Quarterly Email Blast. These new students will be the members who can and will make AESS stronger in the upcoming years.

This QEB starts to close our 50th Anniversary of AESS. We have been able to celebrate these milestones in Australia, Canada, Colombia, Panama, Poland, India, Tunisia, and United States. In all these IEEE Sections, we saw the results of our growth in both member Chapters and Student Branch Chapters have helped us. Furthermore, have met our Young Professionals and learned how we need to help our new members find engineering jobs and share the technical advantages of AESS Membership.

In 2023, we started an IEEE new initiative with four Student Branch Chapters in Regions 9 and 10. These vibrant student chapters are designing and sharing their ideas for system design of commercial drones for both developing healthy crops and preventing devastating fires in their regions. With the AESS tutorials presented to Student Chapters, we have mentored these student teams and their advisors in distributed sensor platforms for potential capabilities for future businesses.

This quarter brings my presidency to a very enjoyable close. It has been a privilege to work across the wide AESS global community. I am very pleased to hand off these Society plans to Professor Sabrina Greco, and I will look forward to supporting her in the next years as I assume the position of Past-President.

Mark E. Davis

IEEE AESS President (2022-2023)

## Features

Story Behind  
*the* Success

### 2023 International Radar Conference Best Student Paper Award Winners

Congratulations to the finalist of the International Radar Conference Student Paper Competition Finalists. The purpose of the Student Paper Competition is to recognize outstanding technical contributions from individual students. Hear from a few of the recipients.

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the  
**HISTORY**  
column

## Aircraft

Since WW1 it had been realised that the threat of attack by air was very real. In WW1 the UK had suffered over fifty bombing raids from German Zeppelin airships, and later Gotha bomber aircraft, on London, Great Yarmouth, Ramsgate and others, with a total of 1,392 civilian dead and 3,330 injured, and it was evident that there was no effective means of providing early warning against such raids.

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## 2024 Fellows Announced

Congratulations to the following members on their elevation by AESS to Fellow - Nathan Goodman, Neil Gordon, Zaher Kassas, and Luke Rosenberg.

The IEEE Fellows deadline has been updated to 7 February 2024. Submit a nomination today!

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## AESS Awards Deadlines Extended

Submit a nomination by **31 January 2024** for the following awards: IEEE Judith A. Resnik Space Award, Industrial Innovation Award, Pioneer Award, Distinguished Service Award, Early Career Award, Engineering Scholarships, AESS Chapter of the Year Award, Warren D. White Award, Fred Nathanson Memorial Radar Award, M. Barry Carlton Award, and Harry Rowe Mimno Award.

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Member News



### Alfonso Farina Inducted to NAE USA

Alfonso was inducted into the International Member of the NAE in 2023.



### IEEE WIE Manga: Riko-chan: Aeronautical Engineer

The comic is free to download for members and non-members.



### Meet the 2024 AESS 2024 Officers

The 2024 officers were elected at the Fall BoG meeting in Sydney, AUS.



### IEEE Senior Member Elevations

Nominations to submit a nomination are open year round. See 2023 elevations.

## CHAPTER NEWS

### UNSAAC Hosts 2023 ELECON

The first ELECON was organized in honor of the Silver Anniversary of the Faculty of Electronic Engineering at the Universidad Nacional de San Antonio Abad del Cusco (UNSAAC). ELECON 2023 was held in the city of Cusco, Peru, from the 13 to 15 November with over 500 attendees.

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### AESS Sardar Patel Institute of Technology Hosts Workshops

The AESS Sardar Patel Institute of Technology Student Branch Chapter held several events in 2023 including a Drone Designing and Water Rocket Competition. They also held an event for students to discuss future career opportunities in aerospace and engineering and provided career mentoring sessions.

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### AESS India Initiative Update: December 2023

Total AESS members in India stands at 599 as on 9 December 2023. This is big achievement within 21 months of roll out of AESS India Membership Initiative which shows a staggering growth of 486% in membership. A new AESS section Chapter was opened in IEEE Delhi Section, with this 7 out of 13 sections have AESS Section chapter.

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### Welcome New AESS Chapters in 2023

AESS has 141 chapters around the world including 68 Student Branch Chapters.

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👏 AESS welcomes its newest chapters:

- Basaveshwar Engineering College
- Visvesvaraya University College of Engineering
- Instituto Tecnológico de Toluca
- Delhi Section-Rajasthan
- Al-Balqa Applied University
- Granada Univ Militar Nueva

## Educational Activities

### AESS DL Hongbo Sun Region 10 Travels

Dr. Hongbo Sun (Principal Scientist of the Institute for Infocomm Research, Agency for Science, Technology and Research, Singapore), was invited by Prof. Josaphat Tetuko Sri Sumantyo (Chiba University) and Prof. Yamazaki Susumu (University of Kitakyushu) to give three IEEE AESS Distinguished Lectures at Chiba and Kitakyushu, Japan in November 2023.

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### AESS DL and President Mark Davis Traveled to Poland

September 2023, Dr. Mark Davis, AESS President and Distinguished Lecturer, traveled to Warsaw, Poland and provided two talks - *Ultra Wide Band (UWB) Surveillance Radar* and *Foliage Penetration (FOPEN) Radar*.

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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.

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### IEEE Aerospace and Electronic Systems Magazine (MAES)

#### Call for Associate Editors

The AES Magazine is looking to add Associate Editors, particularly in the area of Space. Please contact the [AES Magazine EiC](#) if interested.

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

## Conferences

AESS financially and technically sponsors and co-sponsors conferences addressing important aspects of our Field of Interest. Refer to the conference website for the most recent information.



The conference attracted a total of 471 delegates, with 183 local and 288 international attendees, making it the most successful Australian radar conferences.

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## [RadarConf'27](#)

Submit a proposal to host the 2027 RadarConf'. Notices of Intent are due 29 February 2024. The 2027 conference should be planned for the April/May timeframe.

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IEEE  
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