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QUARTERLY EMAIL BLAST

OFFICIAL NEWSLETTER OF THE IEEE AEROSPACE AND
ELECTRONIC SYSTEMS SOCIETY - Q3 2023

FROM THE EDITORS

Dear AEES Members,

We hope you all had an enjoyable summer holiday! Now that we're back in action, we're thrilled to announce our third quarterly newsletter. As always, it's full of news to keep you in the loop about all things that matter to our Society!

In this edition, we've got some feature articles, member highlights, event and society news. It's a quick and enjoyable read.

For example, we've got a quick update from the ESPRIT student branch. They've been up to some exciting activities, and you won't want to miss it! Furthermore, you will learn an interesting story behind the student-t distribution and the student-t test and its author in our History Column.

So, enjoy reading and stay connected with our awesome community.

Cheers,

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



Special Message

FROM THE PRESIDENT



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

This past quarter has been very successful and active for the Aerospace Electronic Systems Society. We have seen record attendance at our major Conferences – Aerospace and Radar. These events indicate that our technical outreach to the community have returned to the pre-COVID benefits. Of particular interest is that Industry has been returning and providing positive feedback to our efforts for technical content, exhibits, tutorials and competitions for students and young professionals.

We have continued the 50th Anniversary of AESS by featuring our historic milestones at IEEE events in Canada, Colombia, Poland, and the United States. We have met with our Young Professionals and learned how we need to help our new members find engineering jobs and share the technical advantages of AESS Membership.

Our AESS New Initiative is underway 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 next quarter will expand the AESS global message during Chapter events in Australia, India, Lebanon and Poland. These Regions are a major part of the Student Branch Chapter growth, and positive feedback to us on the need to help educate Young Professionals for the future.

Mark E. Davis


IEEE AESS President (2022-2023)

Upcoming Events

[Measurement Extraction for a Point Target From an Optical Sensor - Yaakov Bar-Shalom](#)

 Thursday, 10 October - 11:00 AM ET/3:00 PM UTC
[Abstract](#) | [Register](#)

[Adaptive Radar Detection - Antonio De Maio](#)

 Thursday, 12 October - 11:00 AM ET/3:00 PM UTC
[Abstract](#) | [Register](#)

📅 Thursday, 26 October - 11:00 AM ET/3:00 PM UTC

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

[Resilient and Accurate Autonomous Navigation in GPS-Denied Environments - Zak Kassas](#)

📅 Thursday, 2 November - 11:00 AM ET/3:00 PM UTC

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

Features



AESS Award Nominations Open, Update to IEEE Fellows Deadline

The deadlines are approaching for several AESS awards including the IEEE AESS Robert T. Hill Best Dissertation Award on 31 October 2023.

The IEEE Fellows deadline has been updated to 7 February 2024.

[Read More](#)



The History Column: William Sealy Gosset – ‘Student’

William Sealey Gosset was a statistician, born in 1876 in Canterbury, England. He studied Natural Sciences and Mathematics at New College, Oxford University, then joined the brewery of Arthur Guinness in Dublin, Ireland in 1899, where he held the position of Head Brewer. He spent the rest of his 38-year career at Guinness.

[Read More](#)

2023 Scholarship Winners Announced

The 2023 IEEE AESS Engineering Scholarship undergraduate recipient is Ayushi Gautam from Kumaraguru College of Technology and graduate recipients are Luke Joseph Sharples from Arizona State University and Ryan McKnight from Ohio University. Nominations for 2024 are now open!

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Newly Elected Board of Governors 2024-2026

Congratulations to the following AESS members on being elected to the AESS Board of Governors for 2024-2026: Laura Anitori, Michael Braasch, Steven Butler, Alexander Charlish, Fabiola Colone, Braham Himed, Michael Rice, and Barry C. Tilton. They will begin their term on 1 January 2024.

[Read More](#)

Member News



Get to Know an APL Fellow: Steve Butler

Steve is an AESS BoG member, IEEE Fellow and APL Fellow. Read his story.



YP at FUSION 2023

The AESS YPs hosted a networking event at FUSION.



Meet the Team: AESS Panel Chair Interviews

Hear from the Avionics Systems Panel Chair, Roberto Sabatini



IEEE Life Member Conference

The inaugural IEEE Life Member Conference will be held on April 14-16, 2024 in Austin, Texas, USA.

CHAPTER NEWS

AESS EMSIG UoG on guidance and tracking with AESS Switzerland Chapter Chair and Guest Speaker Heinz Wipf included an industry talk Leonardo, projects at University of Glasgow and a panel discussion on the latest trends.

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Vidyalankar Institute of Technology Chuckglider Workshop

The chapter has hosted a series of events in 2023. The chuckglider workshop was guided by Jaydeep Khopkar sir at VIT campus ground commenced with a brief introduction on aerodynamics of aircraft along with their uses and types. It included a demonstration of aircraft working and display of static models. Brief information was given on the history of planes' structure and advancement. After the introduction participants were given kits of chuckglider.

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Exploring the Boundless Skies: AESS Summer School 2.0 Takes Flight

The AESS Summer School 2.0, a captivating event aimed at unraveling the mysteries of the aerospace world, recently concluded its inaugural edition on July 15, 2023. Hosted by the IEEE AESS Esprit student branch, this six-session summer school ignited the passion of both IEEE members and non-members, offering a comprehensive dive into the fascinating realm of aerospace and its captivating technologies.

[Read More](#)

AESS India Initiative Update: September 2023

Total AESS members in India stands at 519 as on Sep 26, 2023. This is big achievement within 18 months of roll out of AESS India Membership Initiative. Bangalore Chapter is now world's largest AESS Chapter with 265 Members. Six out of 13 Sections in India have more than 40 Members; four out of 13 sections have more than 25 AESS members.

[Read More](#)

IEEE North Jersey Chapter AESS Invited Speakers Series

Register for Episodic Processing for Radar Image Characterization by Dr. Brian Rigling. The webinar will be on 24 October 2023 at 6:45 PM to 8:30 PM ET. Registration is required.

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Welcome New AESS Chapters in 2023

AESS has 134 chapters around the world including 62 Student Branch Chapters.

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 AESS welcomes its newest chapters in Q3 2023:

- Anil Neerukonda Inst Of Tech & Sciences
- Costa Rica Institute of Technology
- Florida West Coast Section
- Gogte Inst Of Tech
- H S Sciences & Technologies H Sousse
- Trivandrum College of Engineering
- University of Bordeaux
- Uttar Pradesh Section

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.

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

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.

Special Issue: Hypersonic Weapons: Threat and Defence

The manuscript deadline is **30 November 2023**. The special issue will provide new insights into the latest developments, challenges, and opportunities in this crucial field of aerospace defence technology. [Download CFP](#).

Special Issue: Ethics, Values, Laws, and Standards for Responsible AI

The manuscript deadline is **1 April 2024**. There is a pressing need to uncover ethically relevant problems early in the technical design phase and as systematically as possible. [Download CFP](#).

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

AESS Co-Sponsored Publications

IEEE Transactions on Radar Systems

The newly launched T-RS is accepting paper submissions for the upcoming special section - Advances in Radar Imaging. **Submissions due 15 October**.

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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.

RadarConf24
6-10 May 2024
Denver, CO, USA



Experience the IEEE Radar Conference in 2024 amidst Denver's cultural offerings, outdoor activities, and stunning Rocky Mountain backdrop. **The deadline to submit papers is 20 November 2023.**

[Read More](#)

FUSION 2024
7-11 July 2024
Venice, Italy



[FUSION 2024](#)

Take the opportunity to present your research on sensor, data, information and knowledge fusion at the 27th International Conference on Information Fusion (FUSION) in the charming setting of the UNESCO World Heritage Site of Venice, Italy. **Paper submissions are due 1 March 2024.**

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