

## About the IEEE Aerospace & Electronic Systems Society Newsletter



Dear AESS Members,

I am happy to share with you this last edition of the Quarterly Email Blast (QEB) for 2019.

Apparently, this newsletter is getting more and more popular and that contributed to attract many additional articles. In 2019, we have had many new and returning authors and their commitment contributed to make all the editions great successes. Therefore, on the release of the last edition for 2019, my special thanks go to all of the QEB contributors!

Warmest regards,  
Fabiola Colone  
Editor-in-Chief, AESS QEB  
[fabiola.colone@uniroma1.it](mailto:fabiola.colone@uniroma1.it)

## The Story Behind a Success



### Ann-Kathrin Seifert

As the recipient of the IEEE Radar Conference 2019 Best Student Paper Award, I am truly honored to share my experiences with the AESS community.

[Continue Reading](#)



### Charles Mohr

I am very honored to have my paper selected as one of three winners of the 2019 IEEE Radar Conference Student Paper Contest.

[Continue Reading](#)



## Benjamin Kirk

Having my work selected as one of the top three papers in the student paper competition at the 2019 IEEE Radar conference is truly an honor.

[Continue Reading](#)

## The History Column

By Hugh Griffiths



The second anniversary in this series is the Tizard Mission, in September 1940.

Sir Henry Tizard was a senior British civil servant who oversaw the early developments in British radar.

[Read Column](#)



## Member News

### IEEE Fellow Membership: A Badge of Honor



Dear Colleagues,

I strongly recommend young colleagues to join IEEE and plan ahead, since the early beginning of their career, for the IEEE Senior and Fellow achievements. I warmly invite the deserving colleagues to apply for the IEEE Fellow elevation procedure and wish them to reach the grade of Fellow which is a tangible quality label by IEEE.

Sincerely,  
Prof. Antonio De Maio  
University of Napoli "Federico II"

[Read Full Letter Here](#)



## ITC presents the Pioneer Award 2019 to Dr. Michael Rice

Dr. Michael Rice was awarded the International Telemetering Conference's (ITC) Pioneer Award by the International Foundation for Telemetering (IFT) this fall.

[Read More](#)

## Elevated AESS Members

### 2019 IEEE Senior Members

Senior Membership is the highest grade for which application may be made and shall require experience reflecting professional maturity; a candidate should be an engineer, scientist, educator, technical executive, or originator in IEEE-designated fields in professional practice for at least ten years and shall have shown significant performance over a period of at least five of those years. For more information, go to the IEEE Senior membership section of the [IEEE website](#).

Visit our [website](#) to view the complete list of our 2019 Senior Members.

## Membership Opportunities



## AESS Professional Networking and Mentoring Program

2019 marks the third year of the AESS Professional Networking and Mentoring Program. An innovative AESS program that helps connect students and young professionals with more experienced AESS members for two-way exchange, and thusfar, has been a great success.

Our vision is a flexible international program that is carefully implemented, attentively supported, and singularly focused on providing benefits to AESS members.

We have an excellent core of distinguished international members distributed across industry, academia, and government, who are experts in their field and who are willing to share their time and experience to develop future leaders within the AESS.

More information is available on the [AESS website](#). Mentors and mentees, it is easy to sign up for the program. Join us today!

[Sign Up Today](#)

## AESS Professional Networking and Mentorship Program in Action

As a part of the AESS Professional Networking and Mentorship program, Dr. Ganesh Subramanian and his mentees, Mr. Joseph Naveen Kumar and Mr. Jeff Benish of Team Dronix—Panimalar Institute of Technology, Chennai, India presented “AI for Indoor Navigation” during Drone Conclave 2019 held at ITI Viniyas, Bengaluru on 28 September 2019.

Read about Dr. Ganesh Subramanian training his mentees in on Aerial Mapping, Aerial Video Graph, and Piloting [here](#).

View their mentee experience on their [Team Dronix YouTube Channel](#).

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## Join the IEEE Transportation Electrification Community



[Click here](#) to add to your IEEE memberships. For more information about TEC, please visit our website at [tec.ieee.org](http://tec.ieee.org).

[View Full Announcement](#)

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**AIR FORCE ASSOCIATION'S  
MITCHELL INSTITUTE**

The Mitchell Institute for Aerospace Studies is pleased to announce the launch of a new information resource website, *Aerospace Power for the 21st Century*. The site includes features on the history of aerospace power, modern threats, future trends, current capabilities, and budget resources. It will serve as a one-stop shop for facts, figures, trends, and reports and will be updated on a regular basis with the latest developments and news for the aerospace community.

[Aerospace Power for the 21st Century](#)

AESS Members have free access to the [AESS Resource Center](#)! The Resource Center is a robust, web-based, technical learning and research center that is tailored to support the educational, career, and research needs of AESS members. It is a one-stop shop for AESS Video Tutorials, Publications, educational material, interviews, and more!

## AESS Resource Center Submissions Invitation

The IEEE Aerospace and Electronic Systems Society (AESS) is pleased to invite submissions of tutorials and short courses for inclusion on the [AESS Resource Center](#). This provides an opportunity for authors to support the professional development members of the field and extend the reach of their training material to a global audience. Tutorials may be submitted under a non-exclusive agreement, which does not transfer ownership to IEEE. Further submissions process instructions may be found on the [AESS website](#).

## AESS Membership Certificates are now available!

Follow these steps to download and print your certificate:

- Log into [Collabratec®](#)
- Click on your name in the top right of the screen and select "Member Certificates" from the drop-down menu
- From the "Member Certificates" page, click on the "Download PDF" link to the right of "IEEE Aerospace and Electronic Membership"
- Open the PDF and print it

## Chapter News

### 2019 Annual Meeting of the IEEE AESS Spain Chapter

The annual meeting of the IEEE AESS Spain Chapter took place on 4 September, 2019, at the Palexco Convention Center in A Coruña (Spain). The meeting brought a unique opportunity for members of the AESS Spain Chapter to meet together and to share experiences with the newly elected Chapter Officers, Prof. Gonzalo Seco-Granados (Chair), Prof. María Pilar Jarabo-Amores (Vice Chair) and Prof. José A. López-Salcedo (Secretary).



[Read Full Report Here](#)

### Region 8 Chapter Summit

Region 8 held their Chapter Summit on 17 October in Cologne, Germany. A full report will be given in the 2020 Quarter 1 QEB.





## AESS Technical Panels

Currently the AESS has seven Technical Panels:

- [Gyro and Accelerometer](#)
- [Radar Systems](#)
- [Aerospace Control & Guidance Systems](#)
- [Cyber Security Panel](#)
- [Avionics Systems Panel \(ASP\)](#)
- [Navigation Systems Panel](#)
- [Glue Technologies for Space Systems Technical Panel](#)

The panels hold multiple meetings per year throughout the world, typically where conferences relevant to their technical interests are taking place. Creation of IEEE standards and support of IEEE Conferences are major thrust of technical panels. Each panel operates under its own charter and bylaws. Be sure to click the appropriate Technical Panel button above for more information on that panel.

Please contact George Schmidt ([gtschmidt@alum.mit.edu](mailto:gtschmidt@alum.mit.edu)), VP Technical Operations, the Technical Panel Chairs or any member of the Board of Governors if you're interested in participating in the work of a technical panel.

Distinguished Lecturers are wanted to support the Panel's technical areas, as well as, in all the AESS areas of interest; for more information contact VP Education, Lorenzo Lo Monte ([lorenzo.lomonte.us@ieee.org](mailto:lorenzo.lomonte.us@ieee.org)).

[Click Here to Read Panel Posts on Recent Activities](#)

## Education News



### AESS Short Course

An AESS Short Course on Radar Systems and Electronic Warfare was offered by Dr. Lorenzo Lo Monte at the Wright Brothers Institute by the IEEE Dayton Section Aerospace and Electronic Systems Chapter, in Dayton, Ohio.

[Read Full Article Here](#)

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## AESS Distinguished Lecturer Program

All AESS Chapters and IEEE Sections are encouraged to take advantage of the AESS Distinguished Lecturer and Tutorial Program for their regular or special meetings, that allows them to select from an outstanding list of truly distinguished speakers who are experts in the technical fields of the society. For more information, please see the [AESS website](#).

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## Distinguished Lecturer George Schmidt delivers a lecture in Greece

Distinguished Lecturer George Schmidt presented to the IEEE AESS/VTS Joint Chapter, Greece Section and to two Student IEEE Branches of the International Hellenic University on "Navigation Sensors and Systems in GNSS Degraded and Denied Environments (Or How I Learned to Stop Worrying About GPS)."

[Read Full Article Here](#)

## Conferences



### Radar Challenge "Radar-A-Thon"

Hosted by 2020 IEEE International RADAR Conference,  
Washington DC, USA

<http://iee-aess.org/radar-challenge>



[Radar Challenge](#)



## IEEE AEROSPACE CONFERENCE

YELLOWSTONE CONFERENCE CENTER, BIG SKY, MONTANA.

MAR 7 - MAR 14, 2020

[Visit Website](#)

## IEEE/ION PLANS 2020

20-23 April 2019 in Portland, Oregon.

[Visit Website](#)

## 2020 IEEE AUTOTESTCON Conference

24-27 August 2020 in National Harbor, Maryland, USA

# IEEE AUTOTESTCON 2020

August 24-27, 2020 • National Harbor, Maryland

Gaylord National Convention Center



[Visit Website](#)

## 2020 IEEE/AIAA 39th Digital Avionics Systems Conference (DASC)

11-15 October 2020 in San Antonio, Texas, USA



## Digital Avionics Systems Conference

San Antonio, Texas, USA – October 11-15, 2020

[Visit Website](#)

## 2020 IEEE Radar Conference

21-25 September 2020 in Florence, Italy



[Visit Website](#)

[View Flyer](#)





## 27th Saint Petersburg International Conference on Integrated Navigation Systems

25-27 May 2020

Saint Petersburg, Russia



[Visit Website](#)

Save the date for 2021

Save the Date | FOR THE **2021 IEEE RADAR CONFERENCE**

*Radar on the Move*

ATLANTA, GEORGIA, USA  
8-9 MAY 2021 (RADAR SUMMER SCHOOL)  
10-14 MAY 2021 (CONFERENCE & WORKSHOPS)

Sheraton Atlanta | 165 Courtland St NE | Atlanta, GA 30303

IEEE  
IEEE Atlanta Section  
AESS  
AEROSPACE AND ELECTRONIC SYSTEMS SOCIETY

Have a conference you'd like advertised in the AESS Quarterly Email Blast? Contact Judy Scharmann ([j.scharmann@conferencecatalysts.com](mailto:j.scharmann@conferencecatalysts.com)) for details on how to have it included.

[View Additional Conference Listings](#)

## Conference Reports

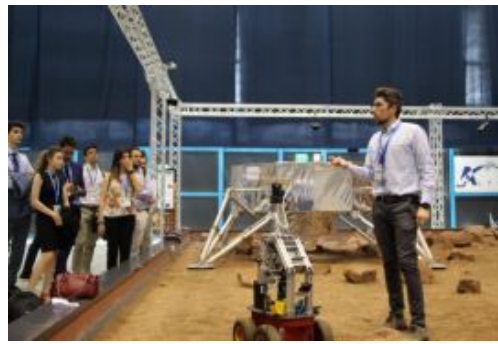


26th Saint Petersburg  
International Conference  
on Integrated Navigation  
Systems

[READ REPORT](#)

## 6th IEEE/AESS Workshop on Metrology for AeroSpace

[READ REPORT](#)



## 2nd IEEE Young Professional Postgraduate STEM Research Symposium

[READ REPORT](#)

## National Aerospace & Electronics Conference (NAECON)

Erv Gangl received the AESS Exceptional Service Award at the National Aerospace & Electronics Conference on 15 July.

Congratulations to Erv!

[More on NAECON](#)

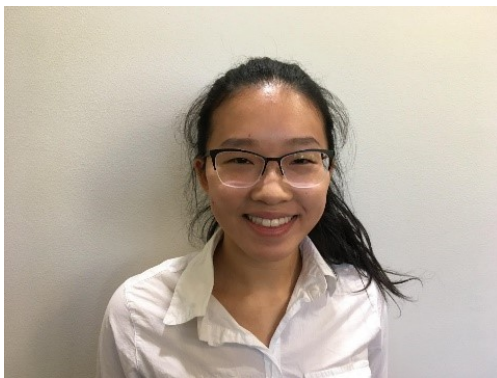


## Board of Governors Meeting



[Read Report](#)

## Meet your new 2020-2021 Undergraduate Student Representative on the AESS Board of Governors



Meet Sarana Tse, the IEEE Aerospace and Electronic Systems Society (AESS) Undergraduate Student Representative for 2020-2021! Sarana is an undergraduate electrical engineering student at St. Mary's University in San Antonio, Texas. She is on the Dean's List with a 3.65 GPA and expects to graduate in May 2021.

[Read Full Bio Here](#)

## Publications

### ***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. Our goal is to inform the readers of technologies, state of the art, design trades, etc. so that they will gain insights into a field heretofore unknown to them. We want to introduce technical specialties to readers in the hope that something in

### Latest Issues

[November 2019](#)

[Oct. 2019 Part I](#)

[Oct. 2019 Part II](#)

[September 2019](#)

[August 2019](#)

[July 2019](#)

[June 2019](#)

the articles will give them some insight for their own fields of endeavor.

## ***IEEE Transactions on Aerospace and Electronic Systems***

*IEEE Transactions on Aerospace and Electronic Systems* (T-AES) 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.

### Latest Issues

[October 2019](#)

[August 2019](#)

[June 2019](#)

[April 2019](#)

[February 2019](#)

**2019 AESS Officers**

**AESS 2019 Board of Governors**

**AESS YP and StM Representatives**



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