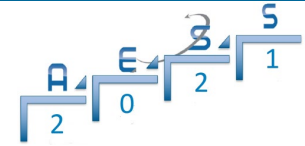


Growth Through Engagement and Teamwork

**Lance Kaplan**  
**VP – Publications**

**October 7-8, 2021**

**Hybrid Board of Governors Meeting**



# Committee Members

- Lance Kaplan
- Mike Cardinale
- Fabiola Colone
- Michael Rice
- Roy Streit
- Sabrina Greco
- Alfonso Farina
- Stefano Coraluppi
- Peter Willett
- Dale Blair

# Outline

- Status
  - Transactions
  - Magazine
  - QEB
- Ongoing Activities
- New Journals

# Status of T-AES

**Michael Rice, EIC**

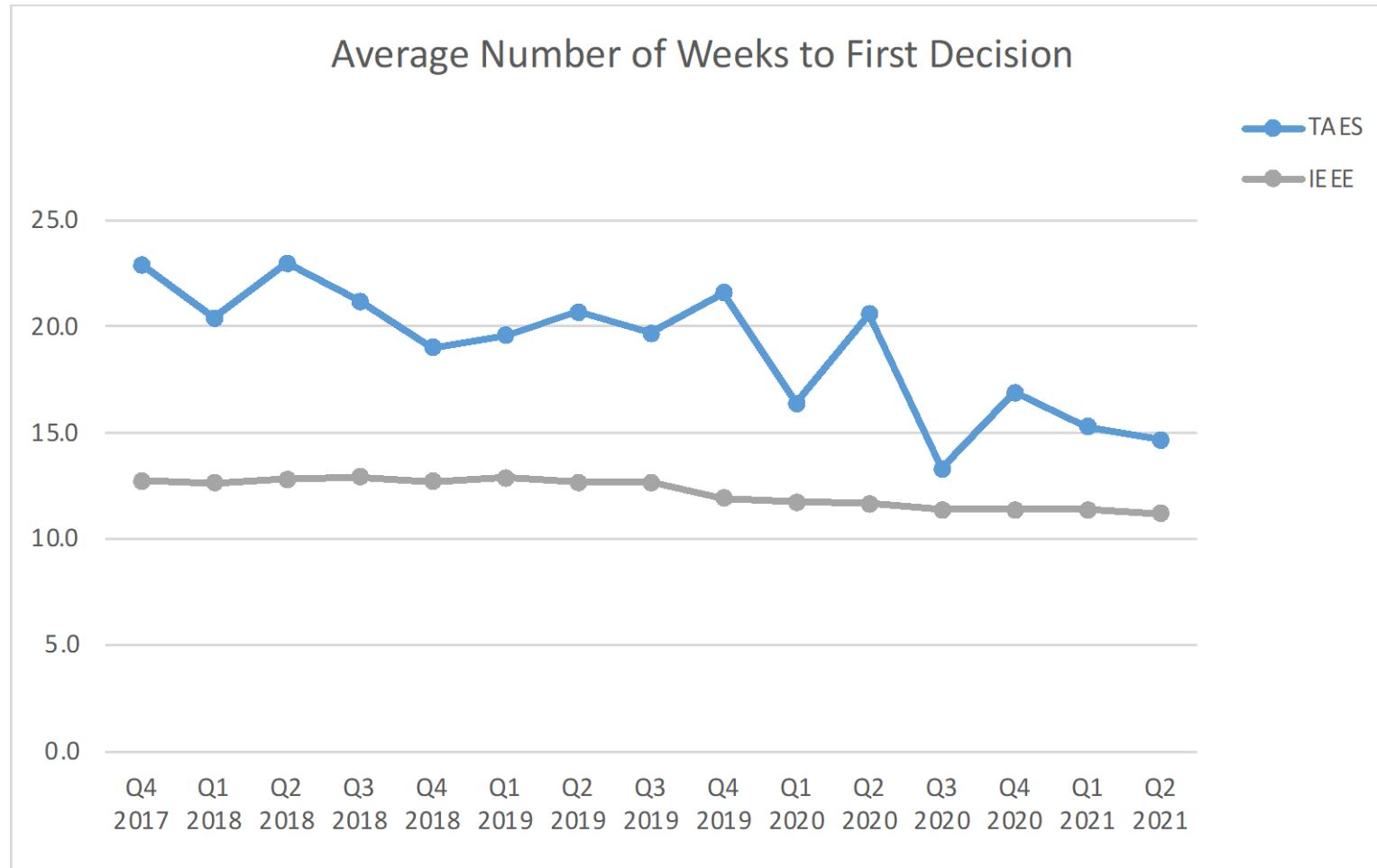
**Gokhan Inalhan, Associate EIC**

**Lyudmila Mihaylova, Associate EIC**

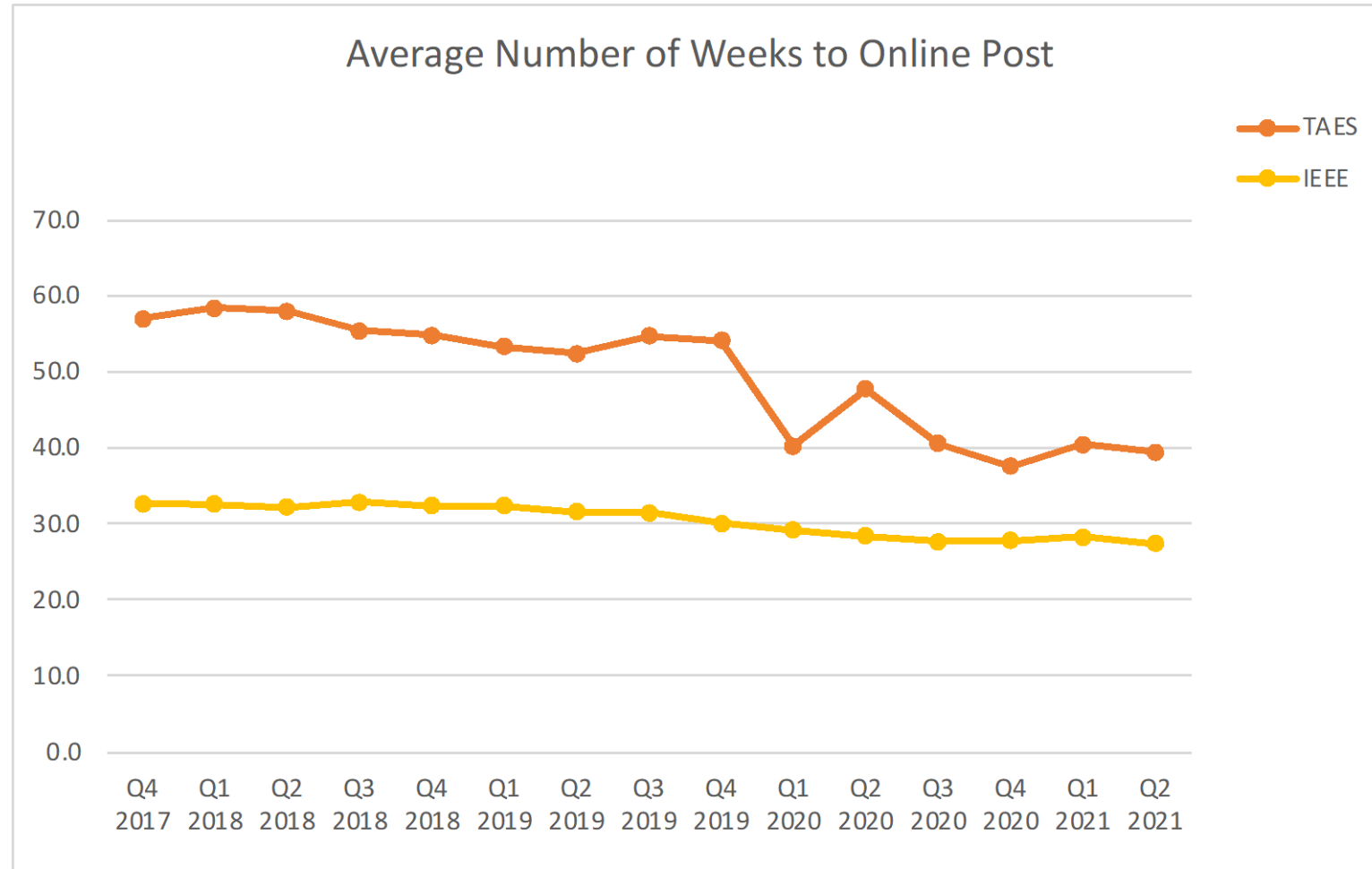
# TAES Associate Editors Appointed Since Last BoG Meeting

- Giancarmine Fasano – Avionics Systems
  - Benjamin Riggan – Electro-optic and Infrared Systems
  - Ashwini Ratnoo – Guidance and Control Systems
  - Richard Linares – Guidance and Control Systems
  - Xiaofeng Wang – Guidance and Control Systems
  - Yulong Huang – Navigation Systems
  - Graeme Smith – Radar Systems
- 
- Full List of Senior and Associate Editors
    - <https://iee-aess.org/node/90>

# TAES Progress on Reducing Timelines



# TAES Progress on Reducing Timelines



# EJ Press and ScholarOne

- ScholarOne opened 1 March 2021
- EJ Press will remain open until 31 Dec 2021 (we hope) – can extend if needed.
  - AEs appointed before 1 March 2021 are using both.
  - TAES had dedicated IEEE administrator (Amit Kulu)
  - Overall experience is positive
    - New AE appointees all seem to be familiar with S1.
    - Almost no questions from authors.
    - Biggest pain: No automatic notification of comments added to conversations. (This is small, so if it is our biggest pain, we are in good shape.)
  - Benefits will be huge next PRAC
    - TAES data will flow from S1 directly into the report.



# M. Barry Carlton Award (TAES Best Paper Award)

- Bo Li and Athina Petropulu for their paper “Joint Transmit Designs for Coexistence of MIMO Wireless Communications and Sparse Sensing Radars in Clutter” that appeared in the December 2017 issue of TAES.
- Notification published in EiC Editorial in the August 2021 TAES issue.
- Judy has worked with the authors to identify the conference where the award will be (has been?) presented.

# Special Sections

- Meta-Level and Adversarial Tracking (Ahmad, Godsill, Krishnamurthy, Willett, Rangaswamy) August 2021.
- Information and Communication Technologies (ICT) for a New Space Vision (Sacchi, Granelli, Marchese, Cheung, Noble) submissions open October 2021.
- Industrial Information Integration in Space Applications (Ip, Bi, Travana, Gupta, Pham) submissions open November 2021.

# Administrative Details

- Senior Editor and Associate Editor expectations document published.
- Outstanding Associate Editor Awards established
  - EIC is tracking the data needed for the award criteria.
- Instructions for Special Section proposals updated and posted.
- TAES Wikipedia page is now fully populated!
  - [https://en.wikipedia.org/wiki/IEEE\\_Transactions\\_on\\_Aerospace\\_and\\_Electronic\\_Systems](https://en.wikipedia.org/wiki/IEEE_Transactions_on_Aerospace_and_Electronic_Systems)

# Status of AES Magazine

**Daniel O'Hagan, EIC**  
**Associate EIC - Vacant**  
**Dale Blair, AE for Tutorials**

# Update

- New EiC – Dr. Daniel O’Hagan replaced Prof. Peter Willett on July 1, 2021
- Tutorial XIV published March 2021
- Six tutorials papers currently under review
- Five special issues are currently in the works

# Recent Special Issues

- “Exploration Mission 1 and Deep Space CubeSats”
  - April 2019, September 2019, March 2020 (Davarian, Gao & Kinman)
- “Wireless Sensor Networks and Remote Sensing for Environmental Applications”
  - June 2019, October 2019 (Kanoun, Carminati, Marcuccio & Ullo)
- “Selected Methods and Techniques for Intelligent Systems for Space”
  - July 2019 (Moreno, Duncan & Bergman)
- “Cognitive Radar”
  - December 2019, June 2020 (Brueggenwirth, Huizing & Charlish)
  - Letter to the editor by Daum
- “Quantum Radar”
  - April 2020 plus November 2020 (Frasca, Farina & Balaji)
- “Noise Radar”
  - September 2020 plus October 2020 (Lukin, Stove & Wasserzler)
- “Avionics Systems: Future Challenges”
  - April 2021 (Sabatini, Kramer, Roy, Blasch, Fasano)
- “Artificial Intelligence for Data Fusion”
  - July 2021 (Chong, Koch & Fraenken)

# Upcoming Special Issues

- “Systems and Solutions for Arctic Challenges” (Reese, McGee, Eicken, Mahoney, Bawden)
- “Space Domain Systems” (Blasch, Linares, Jah)
- “Multi-Platform and Multi-Functional RF Systems (MPRFS) and (MFRFS)” (O’Hagan, Joe Fabrizio, Michael Brandfaß, Josef Worms and Piotr Samczynski)
- “Current Applications and Innovations of Artificial Intelligence and Machine Learning in Aerospace” (Chang, Mohammed, Ramos, Kim)
- “Urban Air Mobility and UAS Airspace Integration: Vision, Challenges, and Enabling Avionics Technologies” (Fazano, Crespillo, Sabatini, Roy, Ogan)

# Possible New Scope

## ■ *Present Scope:*

- *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. The boundaries of acceptable subject matter has been intentionally left flexible so that the Magazine can follow the research activities, technology applications and future trends to better meet the needs of the members of the IEEE Aerospace and Electronic Systems Society. *IEEE Aerospace and Electronic Systems Magazine* articles apprise readers of new developments, new applications of cornerstone technology, and news of society members, meetings, and related items.

## ■ *Proposed Scope:*

- *IEEE Aerospace and Electronic Systems Magazine*, in its monthly printed issues, publishes articles concerned with the various aspects of systems for air, space, land and sea environments that are of general interest to IEEE Aerospace and Electronic Systems Society members. News, information, interviews, reviews and student highlights are also welcome. Speculative design projects are discouraged. The Magazine also publishes occasional Tutorial Issues that are distributed to members along with the month's regular issue; Tutorials are not intended as an outlet for novel content, but significant technical depth is expected.



# Other Things to Talk About

- Other Special Issue topics?
  - Suggestions and proposals from the BoG are welcome
- Advertising
  - It appears that in order to “get into” companies’ advertising plans we may need to engage with them at the time of their annual budgeting exercises.
  - Also, many advertisers request “the coming year’s schedule of issues”. It is not clear how this can be accomplished when we aim at short sub-to-pub times, but there may be some appropriate flow of information that will help.
  - It is tentatively suggested to appoint an Advertising Editor to the Magazine to pursue these contacts. (Would this be a good idea?)
- Spotlight
  - Some IEEE magazines have a feature that highlights popular society journal and conference publications
  - This feature can be short and partially automated via popularity metrics
  - Evidence from other magazines demonstrate an order of magnitude increase in downloads
  - It is suggested to begin this feature. There should be a dedicated AE.

# Impressions of transition to new website

- The website transition to ScholarOne Manuscriptcentral has been relatively smooth.
- The “learning curve” was not too steep. The team and AEs seem to navigate the site well.
- One point of annoyance relates to the Comments function – In particular, when a new comment is added to a conversation, the members of the conversation do not receive an email alert.
- At our most recent AES Magazine Editorial Board meeting (15 September 2021), we stressed the importance of an email alert – we hope that new functionality may be added to the site to enable alerts.

# Status of QEB

**Fabiola Colone, EIC**

# QEB Opens

Campaign Name	# Sent to	# Opened Email	% opened	# Bounced	# Unsubscribed	# Unique Clickers
AES Newsletter 1st Qtr 2018	4142	1397	34%	29	3	119
AES Newsletter 2nd Qtr 2018	3489	1097	31%	21	2	106
AES Newsletter 3rd Qtr 2018	3831	1288	34%	22	1	68
AES Newsletter 4th Qtr 2018	4056	1440	36%	40	6	20
AES Newsletter 1st Qtr 2019	4087	1464	36%	86	3	120
AES Newsletter 2nd Qtr 2019	3617	1146	32%	44	1	253
AES Newsletter 3rd Qtr 2019	3995	1046	26%	17	0	176
AES Newsletter 4th Qtr 2019	4221	1048	25%	1	1	254
AES Newsletter 1st Qtr 2020	4415	1023	23%	21	4	177
AES Newsletter 2nd Qtr 2020	3668	914	25%	3	2	117
AES Newsletter 3rd Qtr 2020	4075	879	22%	1	0	137

# QEB Initiatives

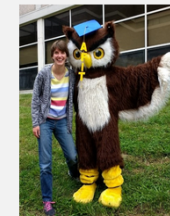
Initiatives are being implemented to improve the QEB and increase readership:

1. New inspiring articles for the section entitled "**The story behind a success**"
2. New interesting articles for the section entitled "**The History Column**" (by Hugh Griffiths)
3. New tool: **Conference Deadlines Tracker**
4. Highlights from **AESS BoG** (message from the President, meetings, new members)
5. Reports from **AESS Technical Panels** (by George Schmidt)
6. AESS members recognition: **Awards & Fellowships**

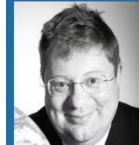
## The Story Behind a Success

In the hustle and bustle of daily life, we don't often stop to appreciate the path that led to this point in life. As the 2019 winner of the IEEE Fred Nathanson Memorial Radar Award, I'd like to take this opportunity to reflect on my own path and be thankful.

[Read Full Story](#)



## The History Column



Number seven in this series of historical developments is a quite remarkable German aircraft from WWI; fighter/bomber aircraft with a steel and laminated plywood airframe, powered by two turbojet engines, Walter and Reimer. Its maximum speed was close to 1,000 km/h. It looks for all the world like a modern



## Spotlight on: the AESS GlueTech Panel!

IEEE Senior Member Claudio Sacchi and IEEE Fellow Marina Ruggieri, contributors to the IEEE Aerospace and Electronics Systems Society's Glue Technologies for Space Systems Technical Panel, discuss how cloud computing is powering space travel on *IEEE Transmitter*.

[Read the Article Here](#)

## AESS Society Highlights

### AESS Officers' Strategic Planning Meeting 2021

The IEEE AESS Officers at the Strategic Planning Meeting held virtually this year on 4-5 February.



Why We're Using Cloud Computing for Space Exploration

# QEB Plans

- **New associate EiC in 2022.**
- Possible ideas to be developed:
  - Include contents for **Industry** (maybe a new column?)
  - Stimulate more inputs from **AESS Chapters**.
  - Modify the **layout** of the QEB to make it more readable that as it is now within the body of the email.

# General Business

# Ongoing Activities

- Sunsetting of EJPress Portal
- Updating Information for Authors/Scope
- Operations Manual for TAES and AESM
- Coordination with technical panels for special section topics
- Active engagement with our editors to improve operations
- Recognize outstanding reviewers, editors and papers
- Tracking Open Access trends



# New Journals

- Transactions on Radar Systems
  - Phase I in November
  - AESS (24%), MTT (24%), SPS (17%)  
APS (7%), GRSS (7%), SC (7%),  
VTS (7%), IMS (7%)
- Open Access Journal on Systems Engineering
  - Phase II in November
  - SC (40%), SMCS (40%), AESS (20%)