



# IEEE Aerospace Electronic Systems VP Member Service

*Laila Fabi Moreira*

*Board of Governors Meeting*

*October 21 & 22, 2022*

# Committee Members

VP Member Services



Laila Moreira



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Chapter Coordinator



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Philipp Markiton



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Undergrad STM Rep



Mehak Jetly

Student activities Co-Chairs



Robert C. Rassa



## List of Goals – Member Service

1. Grow AESS membership by 2% per year;
2. Recruit the new student members to full membership;
3. Increase membership diversity (geographical, affiliation, gender, age, technical);
4. Stimulate Chapter driven initiatives and promote formation of new Chapters;
5. Celebrate the 50th anniversary of AESS with ad hoc initiatives and new benefits for members;
6. Increase member participation in AESS activities and events, especially students and YPs.

## List of Objectives – Member Service

- ▶ Obj #1: YP and StM events
- ▶ Obj #2: Mentoring Program
- ▶ Obj #3: Strategies to spread information
- ▶ Obj #4: Customized membership bundles
- ▶ Obj #5: Regional Chapter Summits
- ▶ Obj #6: 50th AESS anniversary initiatives

## Overall summary

- ▶ S – Promotion of events during conferences, offering opportunities and online network presenting the offerings of AES to motivate students and YP, AESS website finalized, information and offerings advertised on the QEB and website, Region 9 and 10 active and 50<sup>th</sup> anniversary initiatives in progress.
- ▶ W – Many people around the world are not familiar with the AES offerings.
- ▶ O – Participation in person in conferences and promoting events to present AES offerings and motivate students and YP's. Working on a YP's travel grant proposal to acquire more engagement.
- ▶ T – Events at conferences and online network can have few attendances. Opportunities can not be used or not have a fruitful use. Less people from far away attending in person due to the virtual option.

# Overview of AES offerings



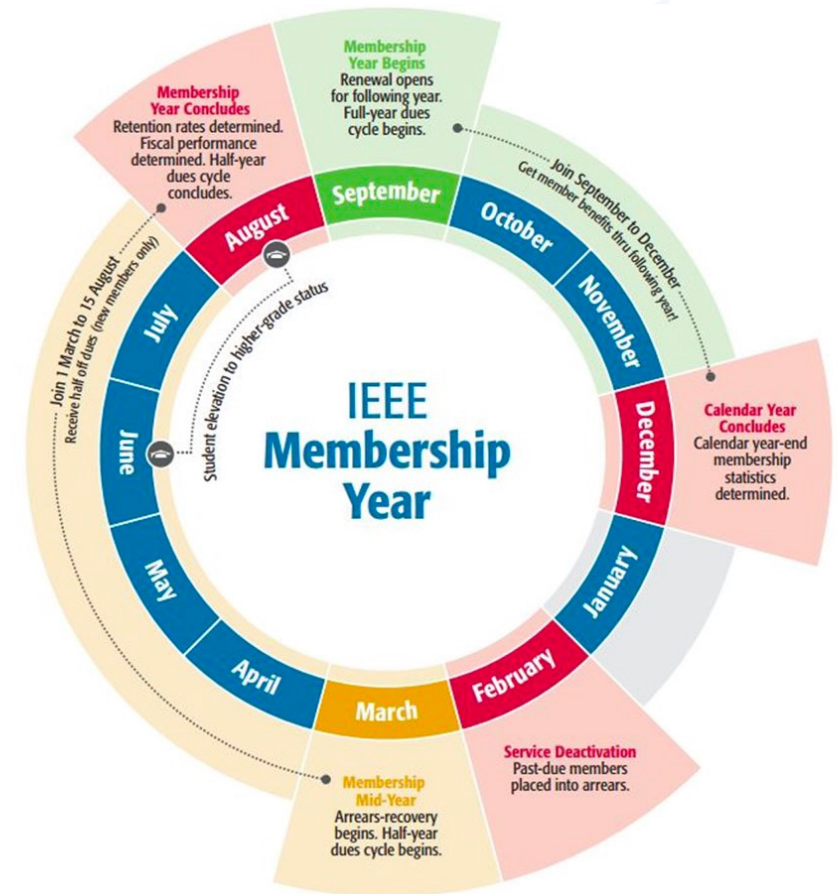
	Undergrad. student	Grad. student	YP, Early Career	Industry	Academia	Researcher	Entrepreneur, Small Business	Late Career	Retired
<b>Publications</b>	Digital library	Digital library	Magazine, Digital library	Digital library	Magazine, Digital Library	Magazine, Digital Library	Magazine, Digital Library	Magazine	Magazine
<b>Awards/ Grants</b>	Travel grants	Travel grants, Dissertation award	Panel award, early career award, publication award	Industrial Innovation Award	AES awards, Panel award, publication award	PLANS, Panel Awards, publication award	Panel award, early career award, publication award	Panel award, publication award	organizational Leadership award
<b>Professional Networking</b>	IEEE YP event	IEEE YP event	Mentoring Program, Radar Summer School, rising stars, YP in space, IEEE YP event	Rising stars	Radar Summer School	Radar Summer School	Radar Summer School, rising stars, IEEE YP event	Radar Summer School	
<b>Continuing Education/ Schools</b>	Resource center, Scholarships, IEEE Learning Network	Resource center, Scholarships, IEEE Learning Network	Radar Summer School, Resource Center	Resource center, IEEE Learning Network, Short course, DL	Resource center, DL, IEEE Learning Network, Short course	Resource center, IEEE Learning Network, DL	IEEE Learning Network	Resource center, IEEE Learning Network	
<b>Conferences</b>	Radar challenge	Radar challenge	IEEE YP Events, Rising Stars	Industry panels, exhibitions, Rising stars	Radar Summer School	Radar Summer School	Radar Summer School	Radar Summer School	

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# IEEE Membership statistics (I)

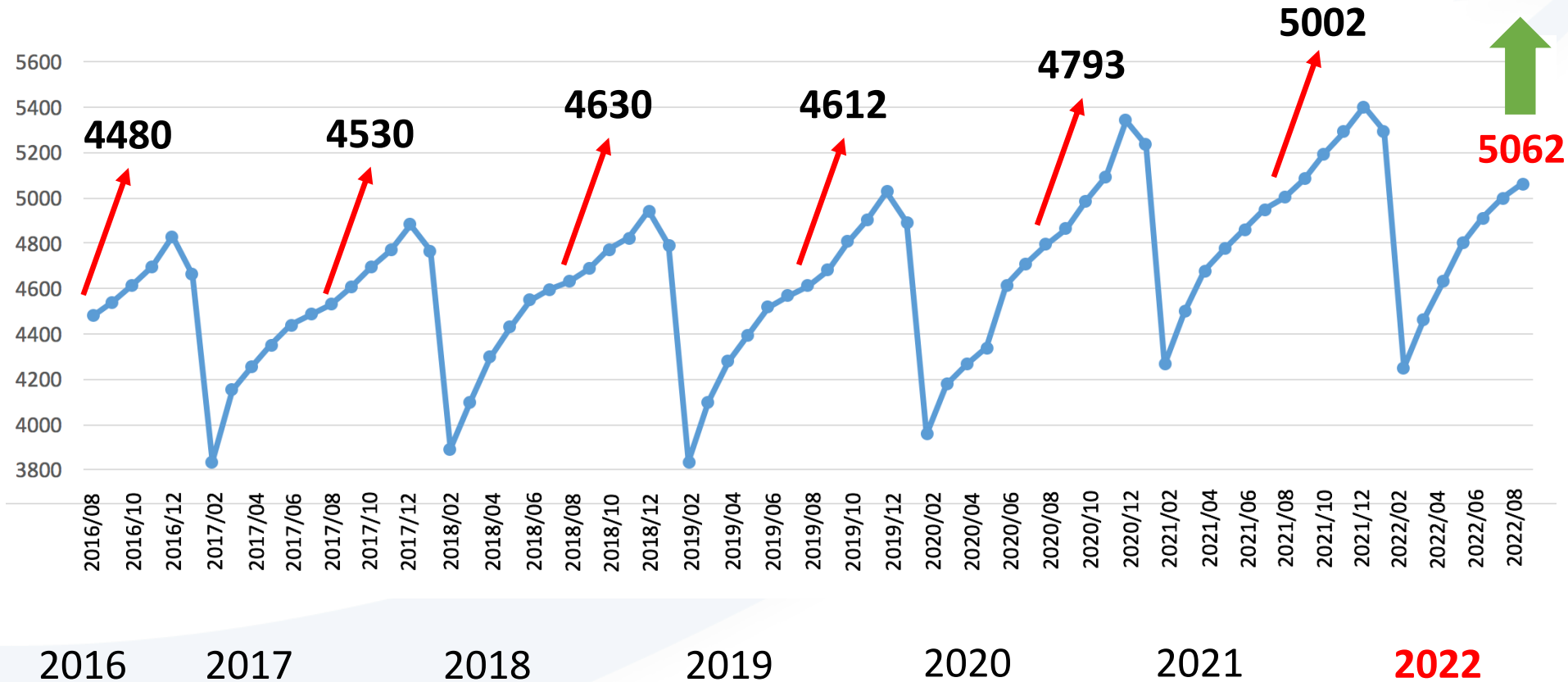
- ▶ **Effects of the covid-19 pandemic:** At the end of December 2020 we saw a decrease of 5.5% or 23,000 members compared to December 2019, where 73% of losses were students. The society memberships were down 2238 (-0,7%) in 2020 compared to 2019.
- ▶ At the end of December 2022, IEEE membership is showing a growth of 4,3% over the 2021 membership year. In fact, they have surpassed 2019 membership levels. While the main driver has been the student membership growth. We also saw improvements in higher grade recruitment this year—up 4.1% overall, and a very encouraging +25.6% in the US Regions. And the **FUTURE50** (IEEE BoD Approved 50% Discount on Student Membership) will continue in 2023.





# IEEE Membership statistics (II)

## ▶ AESS Society total



**+1.2% YoY,  
Highest  
Number in  
6 years**

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## What has been accomplished and in progress

### ▶ Recent events:

- XXIII R9 Student Branches Regional Meeting (November 2020);
- IEEE Rising Stars conf. RS2021 (January 2021);
- 2 YP events and relevant activities at the 2021 IEEE Radar Conf;
- IEEE Rising stars conference RS2022 (January 2022).
- 2022 IEEE Radar Conference: YP event;
- India Student Branches Meeting (September 2022)

### ▶ In progress:

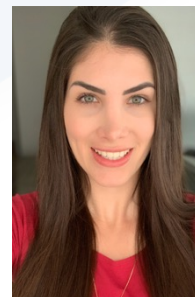
- 2022 IET International Radar Conference: YP event.



## YP travel grant proposal



- ▶ **IDEA** – Support AESS young professionals attending AESS conferences in order to further their professional development. These travel grants are particularly aimed towards YPs from developing countries, who face much greater difficulty in obtaining funds to attend conferences since industry and government do not readily fund such travel.
- ▶ **PLAN** – The purpose of these travel grants is to provide support for AESS YPs across a broader range of AESS conferences and technical topics. The judging of candidates favors those that travel large distances from low GDP PPP countries. Hence, a goal of these grants is to encourage broader and internationally diverse participation from YPs. The recipients will receive conferences items, for example, conference hotel accommodation, free registration and tutorials. The judging will be performed in two stages.
  - Stage one is a preselection round that results in a binary decision regarding whether the candidate 1) has a need for the award and 2) has a convincing motivation. Three judges will independently come to a decision on each candidate and the final decision for each candidate will be the majority of the three judges' decisions. Consequently, candidates that have not convincingly portrayed a need and a motivation will be removed.
  - Stage two calculates a score based on the distance that the candidate must travel to the conference and the GDP PPP of the candidate's country of residence. Candidates with the highest scores will receive the grants.
- ▶ **TIME** – TBD
- ▶ **PEOPLE** – Member service committee, Education Committee/Alexander Charlish, Finance + BoG to determine which person should receive the grant
- ▶ **COST** – The prizes are conferences items such as conference hotel accommodation, free registration and/or free tutorials. Recipients presenting a paper at the conference receive maximum support of \$1500, recipients not presenting a paper at the conference receive a maximum support of \$750.



## What has been accomplished and in progress Links between YPs/Students and senior AESS members

- ▶ Mentoring Program:
  - Monitoring Mentor-Mentee pairs and always giving the support;
  - Choosing the best Mentors for the respective Mentees;
  - Direct links with YP and student within the BoG.
- ▶ "Mentor meet mentee" event:
  - Radar conference NY;
  - 2022 IET International Radar Conference: YP event + Mentor meet mentee;
  - Advertised in QEB.



## Mentoring Program in detail

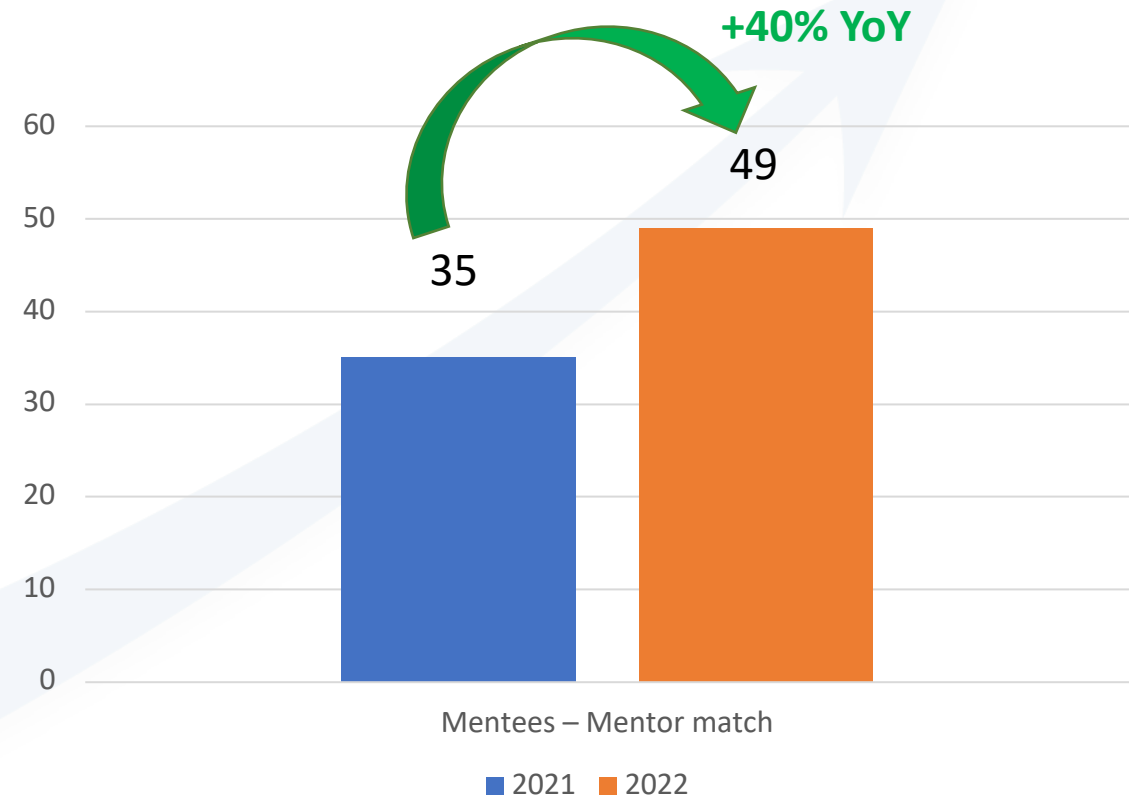
**97** international expert members from industry, academia, and government are currently registered in the program as **Mentors**. **49 active Mentees – Mentor match**. Mentoring program testimonials at the QEB.

### Thread:

The Mentees – Mentors match remain the same from the beginning of the year until now.

### Action plan:

- Advertise it more social media
- Put a Survey for mentees and one for mentors
- Present AES offerings + Mentoring Program

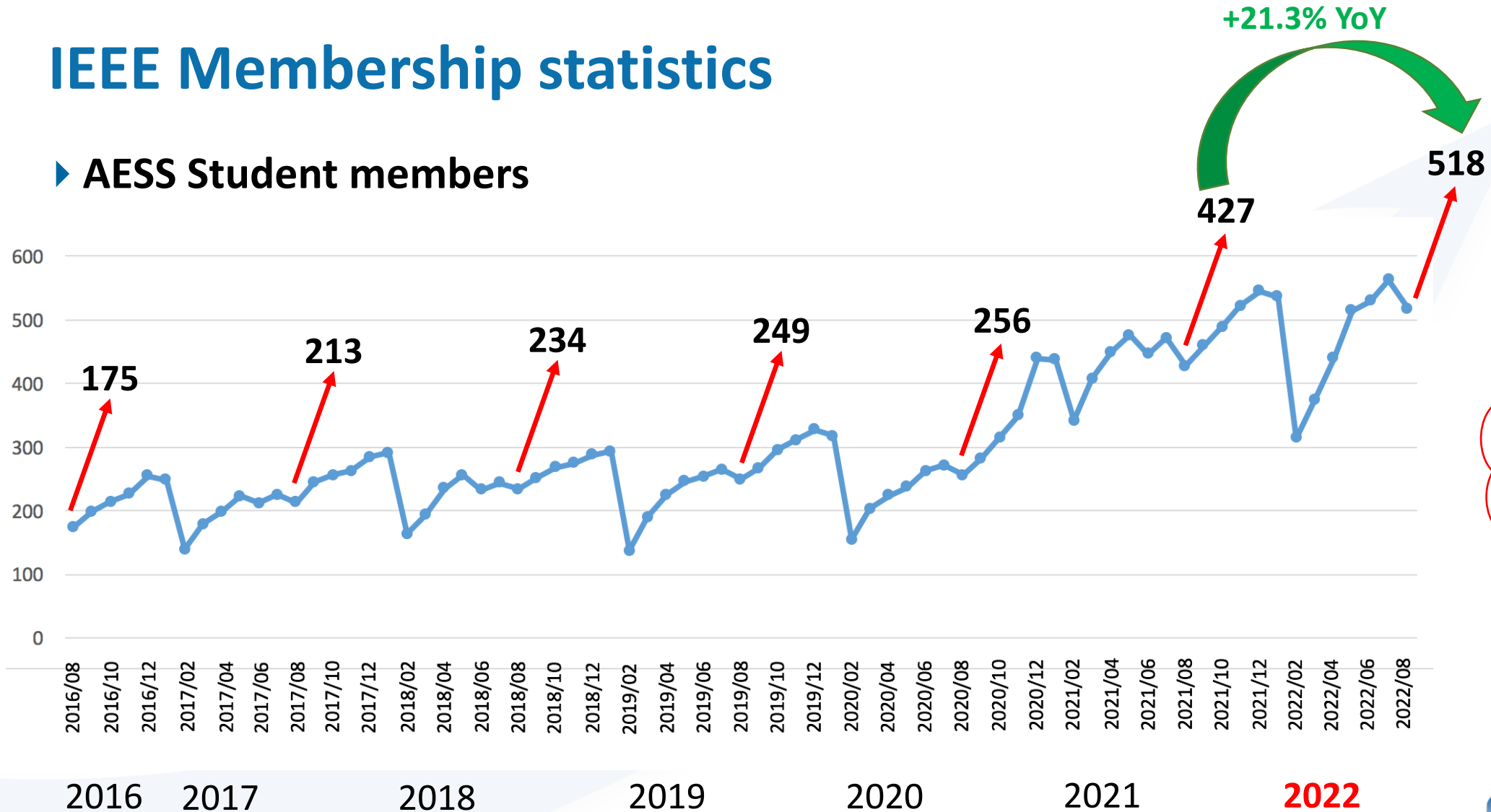


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# IEEE Membership statistics

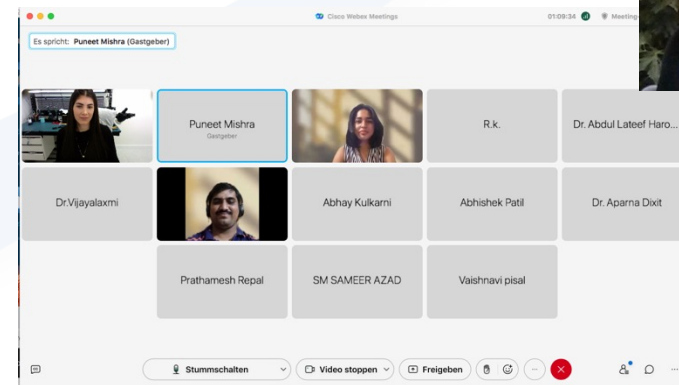
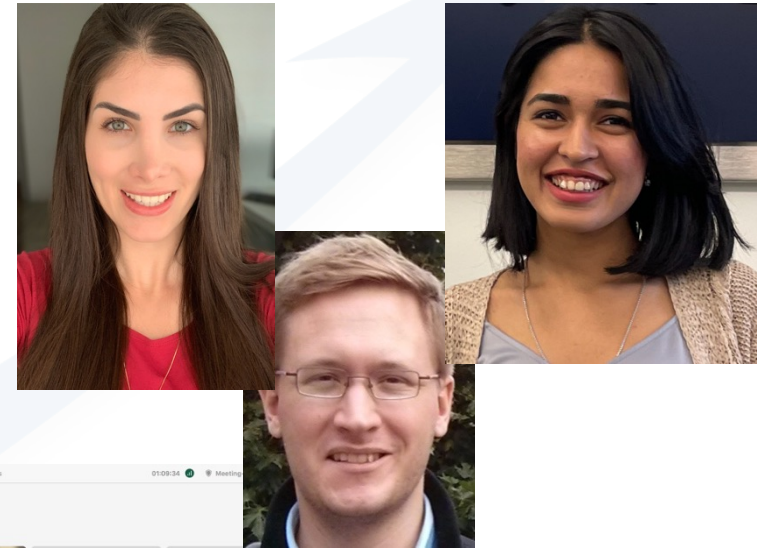
## ▶ AESS Student members





## What has been accomplished and in progress Created new contents focused on YP young members

- ▶ Columns in QEB:
  - The story behind the Success;
  - Mentoring program testimonials.
- ▶ Profiles in social media
  - Instagram;
  - LinkedIn.
- ▶ Online meetings
  - India
  - Focus on R9
- ▶ Events
  - Conferences.



## What has been accomplished and is planned

- ▶ AES website is updated and ready;
- ▶ Contact with chapters, focused on region 9 and 10.
- ▶ Arrange chapter summits



The screenshot displays the AES website interface. At the top, the AES logo and name "IEEE Aerospace and Electronic Systems Society" are visible, along with navigation links: Home, About, Awards, Activities, Publications, Conferences, and Search. The main content area features several announcements:

- INTEGRATED SENSING AND COMMUNICATION (ISAC) WORKSHOP**: An announcement to register for the 2022 Integrated Sensing and Communication workshop, scheduled for 23 October 2022. Registration is required.
- VIRTUAL DISTINGUISHED LECTURER SERIES**: A news item announcing that registration for the 2022 Virtual Distinguished Lecturer Series is now open and free to attend.
- Submit a nomination for an AES Award!**: A news item stating that nominations for an AES award are now open.
- AEES BOG Class of 2025-2025**: A congratulatory message for the new class of the Board of Governors.
- 50th Anniversary Celebration!**: A news item celebrating the society's 50th anniversary.


Below the website screenshot is a world map divided into ten regions, labeled R1 through R10. Region R1 is North America, R2 is South America, R3 is Europe, R4 is Africa, R5 is Asia, R6 is Australia, R7 is Antarctica, R8 is the Middle East, R9 is South America, and R10 is Asia.

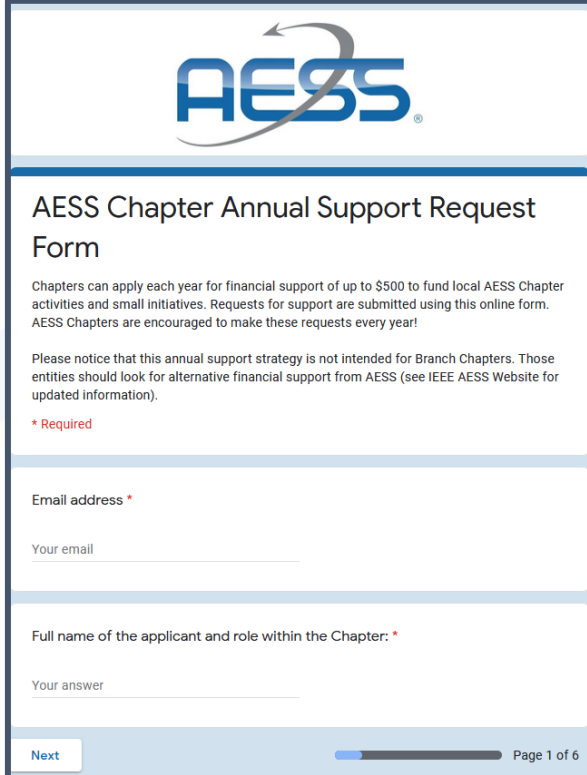
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## What has been accomplished and in progress

### Revised the membership fees

- ▶ Student member fees reduced down to \$5
  - Became effective in 2021 and will continue in 2023.
- ▶ IEEE is implementing:
  - 5% discount on two or more Society membership.
- ▶ AESS is implementing: 
  - Discount link (30% off) for chapter membership renewal where chapters have 16 or more members and have reported 2 or more events.
  - \$250 funding for student branches
- ▶ Action: Advertise it more
  - Implementation on the QEB, website and magazine;
  - Get in contact with other societies to arrange events together



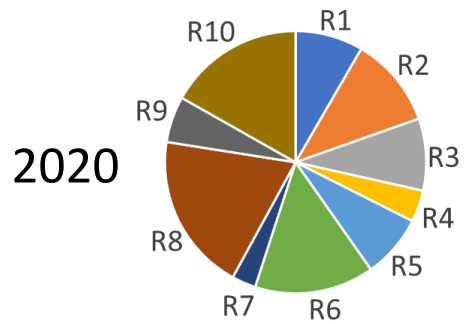
The screenshot shows the AESS Chapter Annual Support Request Form. At the top is the AESS logo. Below it, the title "AESS Chapter Annual Support Request Form" is displayed. A paragraph of text explains that chapters can apply for financial support of up to \$500 and that requests are submitted online. A note states that the support strategy is not for Branch Chapters. A red asterisk indicates a required field. The form includes input fields for "Email address" and "Full name of the applicant and role within the Chapter". At the bottom, there is a "Next" button and a progress indicator showing "Page 1 of 6".

## List of Goals – Member Service

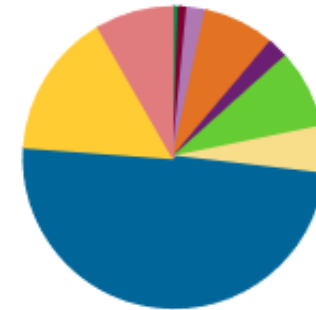
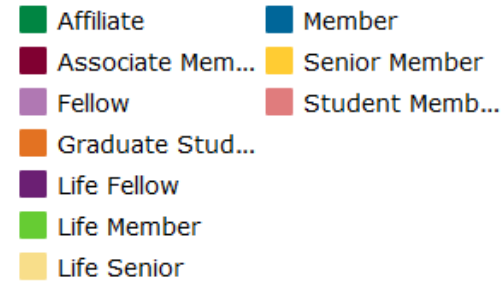
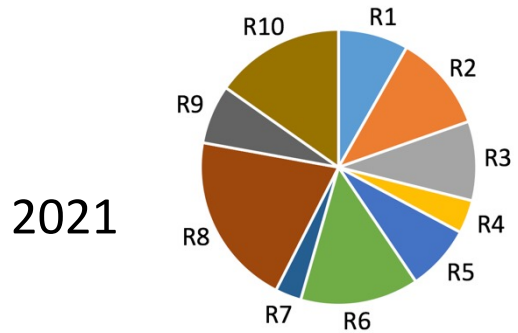
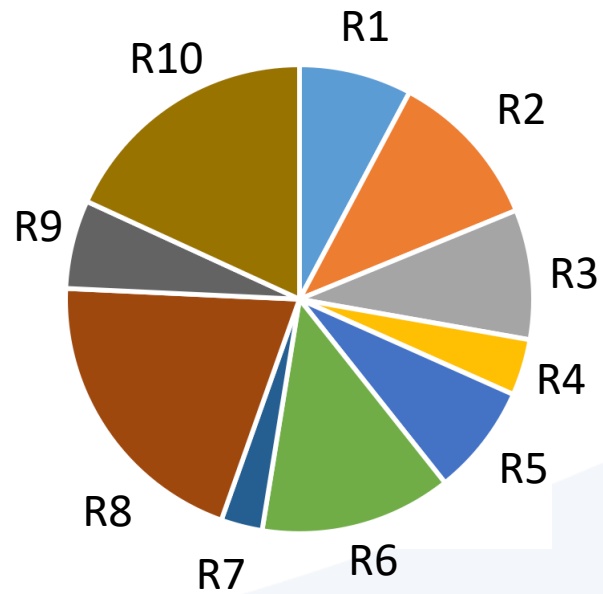
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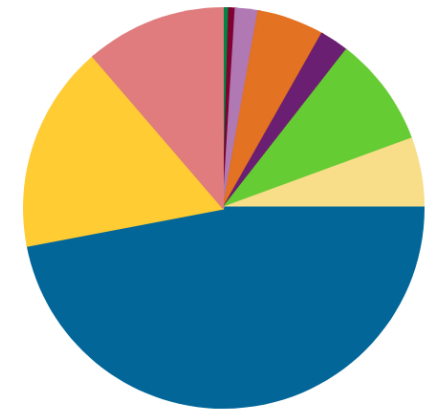
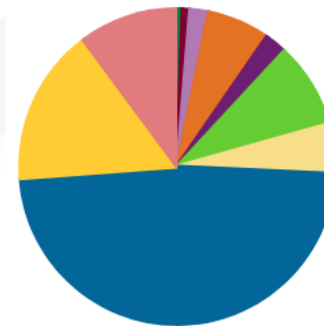
### ▶ AESS membership count



by Region

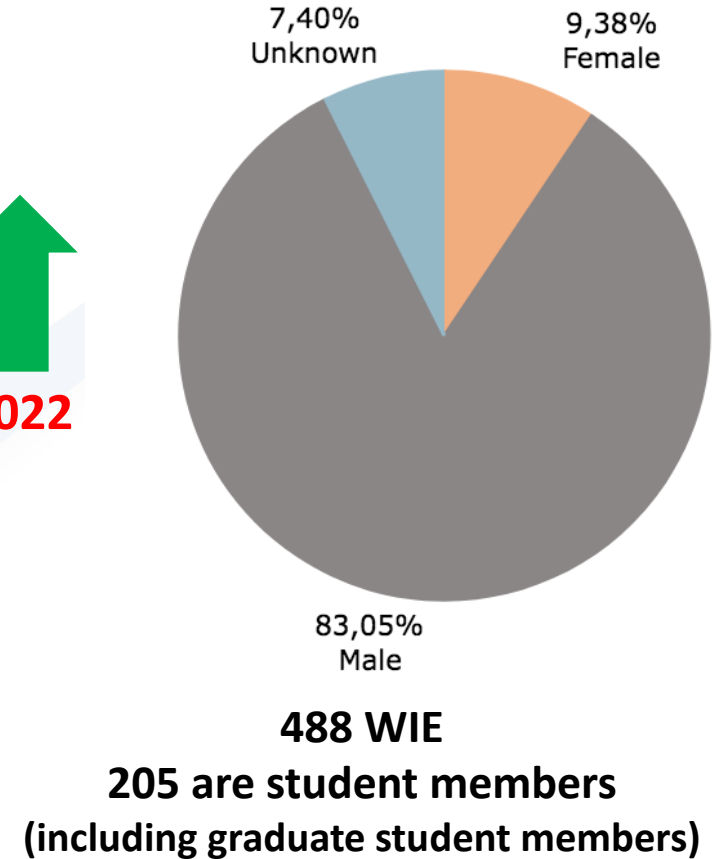
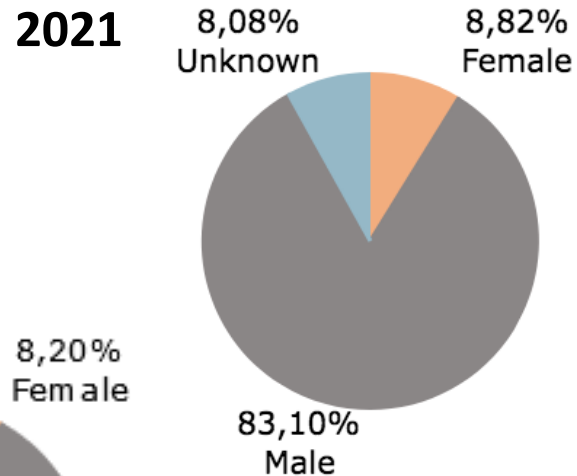
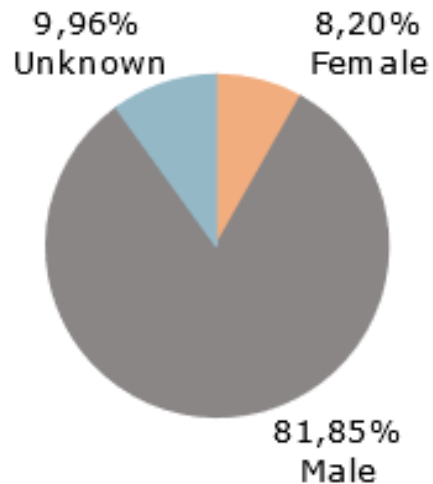
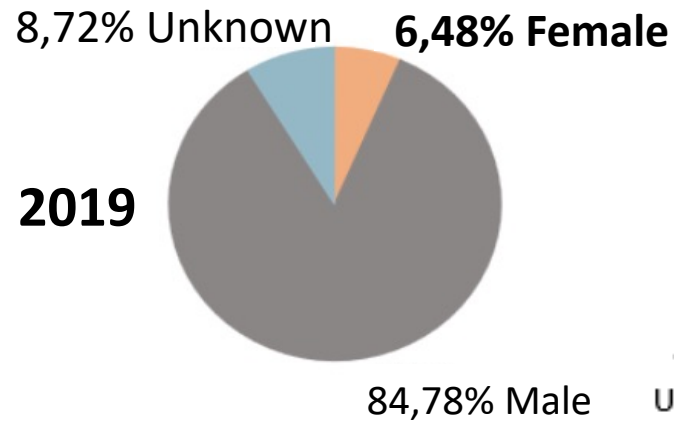


by Grade



## IEEE Membership statistics

### ▶ AESS membership count by gender



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## Objectives #5 – Regional Chapter summit



- ▶ Past Summits:
  - In 2021 and 2019 we had 2 Regional Chapter summits:
    - **Region 8:** Held in October 17, 2019 – Cologne, in person;
    - **Region 1-7:** Held in May 8, 2021 – Virtual meeting.
  - **Region 8:** In person, in the second semester of **2022** in the International Conference on Radar Systems in Edinburgh, Scotland.
- ▶ We plan to have several Regional Chapter Summits during the next 3 years:
  - **Region 9:** In person, in early 2023 at the CANSAT event in Bogota/Colombia;
  - **Region 1-6:** In person and in early 2023 together with the radar conference in San Antonio/ USA and the BoG meeting;
  - **Region 10:** In person and in November 2023 in Australia together with the radar conference.

## Regional Chapter summit in detail

- ▶ R9 summit in 2023
  - Colombia: They are very active, with several activities and events in their country.
  - Giovana is the chapter chair.
  - 14<sup>th</sup> of May, 2023, in Colombia at the CANSAT event.



## What has been accomplished and in progress

- ▶ Several chapters have already submitted for the annual chapter fund:



- ▶ Chapters submitted for higher funds:

- Lone Star - \$2,000
- Colombia - \$2,500

- ▶ Outstanding student branch chapter:

- Tunisia Section (Region 8)
  - Jt Chapter: AES10
  - Chair: Adel Alimi

- ▶ 408 events reported by the chapters

- Binghamton
- Brazil North Center Section
- Buenaventura
- Cleveland Section
- Colombia
- IEEE Bangladesh Section
- IEEE Bombay Section
- IEEE Singapore Section
- Madhya Pradesh Section
- Poland
- Queensland
- South Australia
- Spain
- Turkey
- UK and Ireland
- Utah



+ committee members!



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## Objective #6 – 50th AESS anniversary initiatives

### ▶ Initiatives in progress

- Magazine special issue
- Dedicated event at a major conference
- Gadgets
- Promotional video
- AES logo contest
- "Quiz" challenge

### ▶ Divided in three categories:

1. Commemorative events
2. Promotional activities
3. Members engagement

### ▶ Will be discussed in a separate presentation

