

The logo features the word "AES" in blue with a grey swoosh above it, followed by "VISION" in black. Below this, the year "2020" is written in large, bold, black numerals.

**AES VISION
2020**

Member Services – SMART Objectives

Review and Actions Fabiola Colone

April 26-27, 2019

Boston, MA, USA

Membership Statistics

Data Sources

- Society membership data provided by Bob Rassa



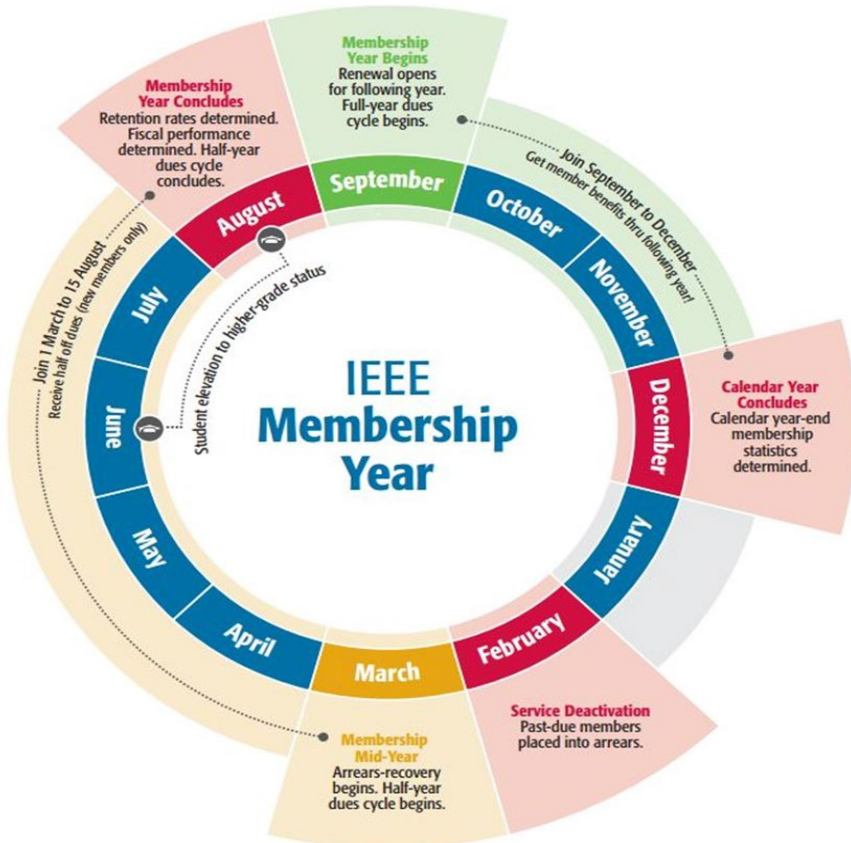
The screenshot shows the IEEE Collabratec interface. The top navigation bar includes the IEEE Collabratec logo, a search bar for communities, and user profile information for 'Fabiola'. A left sidebar contains navigation options: Home, People, Communities, Groups, and Opportunities. The main content area features a banner for the 'Membership Development Volunteers' community, which is provided by IEEE Membership Development and has 720 participants. The banner includes a logo for the 2019 membership development and options for notifications and leaving the community.

→ Monthly Membership Development Report issued on behalf of the IEEE Member & Geographic Activities Board

- IEEE (Regions / Member Grade / Recruitment vs Retention)
- IEEE Societies (Division / Single Society / Member Grade)
- Special Interest Memberships (WIE, IEEE Standards, YP)

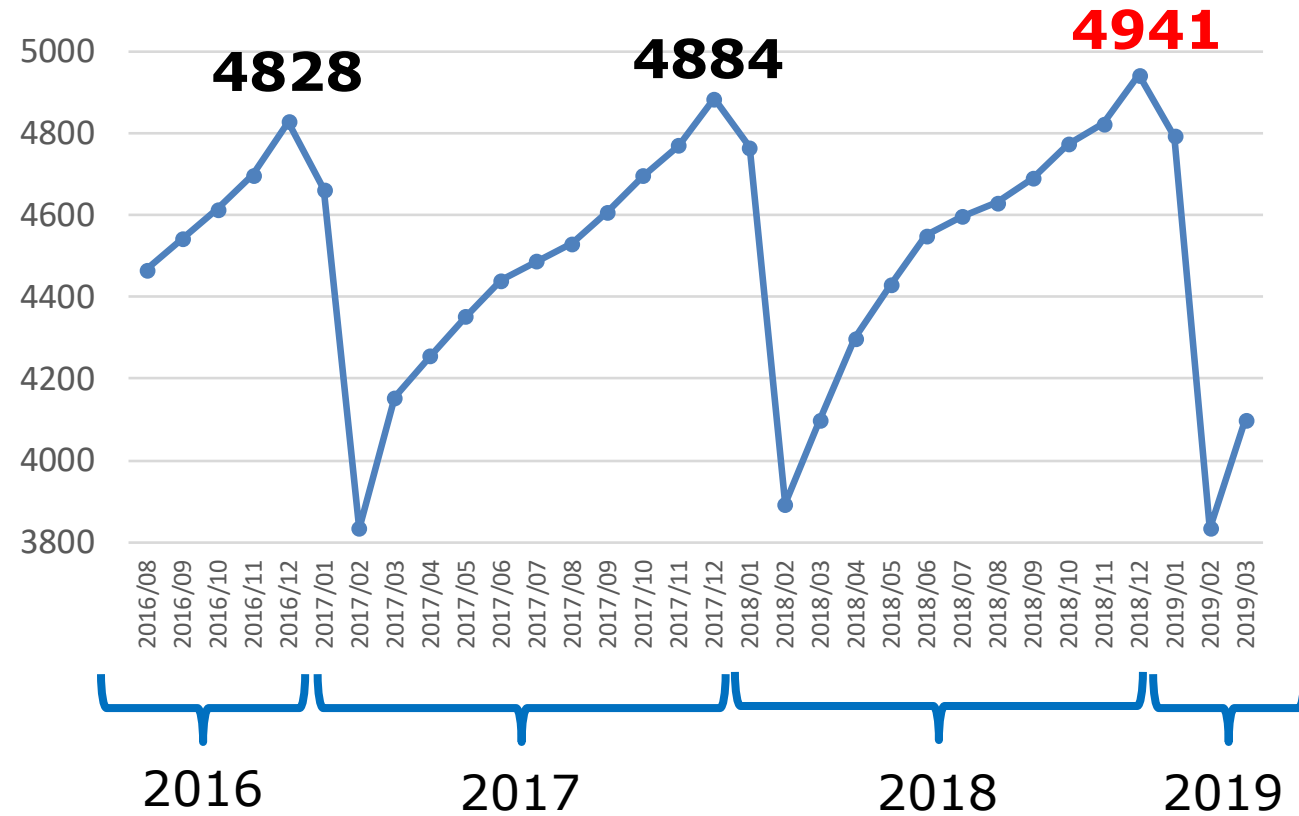
Membership Statistics

Membership Year



December marks the end of the membership year and the release of the officially published statistic on the size of IEEE membership.

AESS Society total



Membership Statistics

AESS

CATEGORY	MEMBERSHIP YEAR			
	Dec 2015	Dec 2016	Dec 2017	Dec 2018
Life Fellow	131	121	118	106
Fellow	104	111	105	114
Total	235	232	223	220
Life Senior	236	249	256	249
Senior	667	681	730	759
Total	903	930	986	1008
Life Member	443	455	441	432
Member	2738	2643	2640	2690
Total	3181	3098	3081	3122
Affiliate Member	69	54	53	73
Total Higher Grade	4388	4314	4343	4423
Grad Student	213	230	231	207
Student	277	255	285	288
Affiliate Student	28	29	25	23
Total Student	518	514	541	518
Grand Total	4906	4828	4884	4941

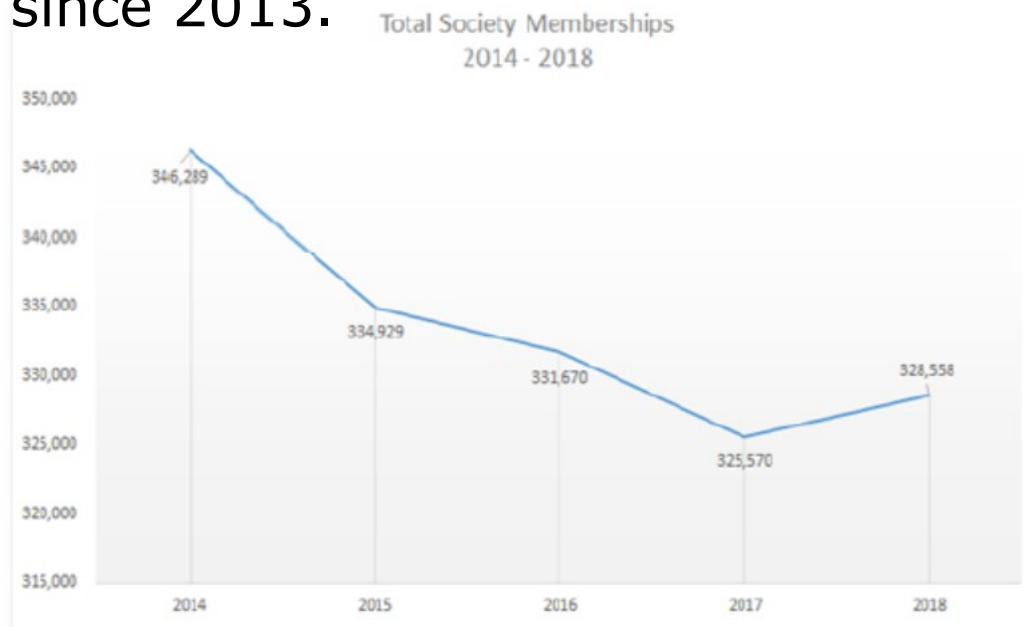
**+1.2%
in 2018
over
2017**



Membership Statistics

IEEE and IEEE Societies trend

- **IEEE** ended the year with 422,460 members, or **1.2% more** than last year. This is the first year of organic positive growth since 2013.



- **IEEE Society** memberships turned the corner in 2018 with the first upward trend since 2014, with memberships up 2,988, or **0.9%** in **2018 over 2017**.
- **IEEE Society – Division IX** membership increased by **4%** in **2018 over 2017**.

Membership Statistics

Societies within Division IX by Grade

Society	Year	Grade											Total Memberships	2018 over 2017	
		LF	F	LS	SM	LM	M	AM	Total HG	GSM	StM	AF			Tot. Stud.
AESS	2015	131	104	236	667	443	2738	69	4388	213	277	28	518	4906	+57 +1.2%
	2016	121	111	249	681	455	2643	54	4314	230	255	29	514	4828	
	2017	118	105	256	730	441	2640	53	4343	231	285	25	541	4884	
	2018	106	114	249	759	432	2690	73	4423	207	288	23	518	4941	
GRSS	2015	82	102	65	552	121	2134	82	3138	291	121	214	626	3764	+311 +7.9%
	2016	83	105	67	595	132	2076	86	3144	317	138	177	632	3776	
	2017	88	106	75	666	147	2111	71	3264	302	170	186	658	3922	
	2018	91	111	77	713	144	2186	88	3410	391	232	200	823	4233	
SP	2015	229	578	246	2871	505	10525	254	15208	2630	1676	169	4475	19683	+648 +4.0%
	2016	249	599	265	2914	539	9682	194	14442	2157	1046	189	3392	17834	
	2017	263	621	291	3008	582	9019	159	13943	1648	563	193	2404	16347	
	2018	272	635	335	3066	613	8894	172	13987	1914	790	304	3008	16995	
VT	2015	90	127	134	722	256	2621	49	3999	250	123	31	404	4403	+234 +5.1%
	2016	88	138	144	749	265	2633	41	4058	263	126	21	410	4468	
	2017	95	148	151	824	274	2675	46	4213	249	123	27	399	4612	
	2018	101	144	162	929	284	2690	48	4358	335	117	36	488	4846	

Membership Statistics

Societies within Division IX by Region

		Region									
Society	Year	Region 1 - 6		Region 7		Region 8		Region 9		Region 10	
AESS	2015	2993		171		924		206		612	
	2016	2958		155		918		168		629	
	2017	2938	-39	160	-4	908	54	174	-7	704	53
	2018	2899	-1,3%	156	-2,5%	962	5,9%	167	-4,0%	757	7,5%
GRSS	2015	1389		150		1044		187		994	
	2016	1315		133		967		181		1180	
	2017	1367	-14	129	0	976	120	212	-6	1238	211
	2018	1353	-1,0%	129	0,0%	1096	12,3%	206	-2,8%	1449	17,0%
SP	2015	7063		654		5450		854		5662	
	2016	6683		565		4992		644		4950	
	2017	6390	-25	527	17	4453	124	486	45	4491	487
	2018	6365	-0,4%	544	3,2%	4577	2,8%	531	9,3%	4978	10,8%
VT	2015	1834		228		1092		151		1098	
	2016	1797		227		1045		148		1251	
	2017	1860	106	259	-1	1012	72	151	18	1330	39
	2018	1966	5,7%	258	-0,4%	1084	7,1%	169	11,9%	1369	2,9%

Membership Statistics

Motivations for membership growth?

Part of this trend is attributed to overall increases in **new membership** by **5.2%** while **reinstatements** (former members) were up **2.2%** over 2017.

Power Electronics Society membership increased by +8.1% in 2018 over 2017:

*"PELS attributes its organic and stable growth to a holistic program including consistent **year-over-year communication segmented on the individual, chapter, and international levels covering relevant benefits.** PELS maintains a healthy offerings portfolio combined with a willingness to sunset **non-productive/low-valued services, incubating new partnerships, and responding quickly to members.**"*

Geoscience & Remote Sensing Society membership increased by +7.9%:

*"GRSS attributes its growth, to **visits to local China and South America chapters** by the GRSS President, hiring a staff person in Beijing, and the Society's **ChapNet program that funds bottom-up initiatives of 3+ chapters.** GRSS also started a program, "**GRSS Student Grand Challenge**" targeting students and YPs with a 2018 Challenge focused on developing an end-to-end drone-based EO system."*

Membership Statistics

Motivations for Students membership growth?

While **Graduate Student Membership (GSM)** had the highest increase in **memberships**, up 6% over 2017, Students saw an increase of 4%, while Higher Grade memberships rose 0.6% in the same timeframe.

Robotics & Automation Society:

*"RAS' flagship conference, International Conference on Intelligent Robots and Systems (IROS), was held in Madrid, Spain in 2018 and attracted a record 4000+ registrants, many of whom were Ph.D. candidates who enjoy **significant registration discounts as members**. In addition, RAS has **expanded the number of Student Activities Committee Co-chairs** in 2018 including at two of Region 3's major institutions, Clemson University and Georgia Tech University."*

Broadcast Technology Society:

*"While BTS experienced a 5.7% growth in GSM membership between 2016 and 2017, that growth soared to 76.8% in 2018 when a **Young Professionals BTS Workshop** in Italy resulted in 53 new members joining BTS."*

Member Services 3-Year Goals

1. Maintain close liaison with Chapters and engage chapter members in AESS events and activities
2. Promote formation of AES-Joint Society Chapters where no chapter exists
3. If financially feasible, hold a Chapter Summit every three years in conjunction with the Sections Congress meeting
4. Promote AES chapter participation in organizing conferences
5. Grow AESS membership by 1% per year
6. Increase member participation in AESS events
7. Reduce the number of member drops each year
8. Recruit student members to full membership upon graduation
9. Offer assistance to members for elevating to the next grade

Lines of intervention

CHAPTERS

1. Maintain close liaison with Chapters and engage chapter members in AESS events and activities
2. Promote formation of AES-Joint Society Chapters where no chapter exists
3. If financially feasible, hold a Chapter Summit every three years in conjunction with the Sections Congress meeting
4. Promote AES chapter participation in organizing conferences

5. Grow AESS membership by 1% per year

SR MEMBERS

6. Increase member participation in AESS events

7. Reduce the number of member drops each year

8. Recruit student members to full membership upon graduation

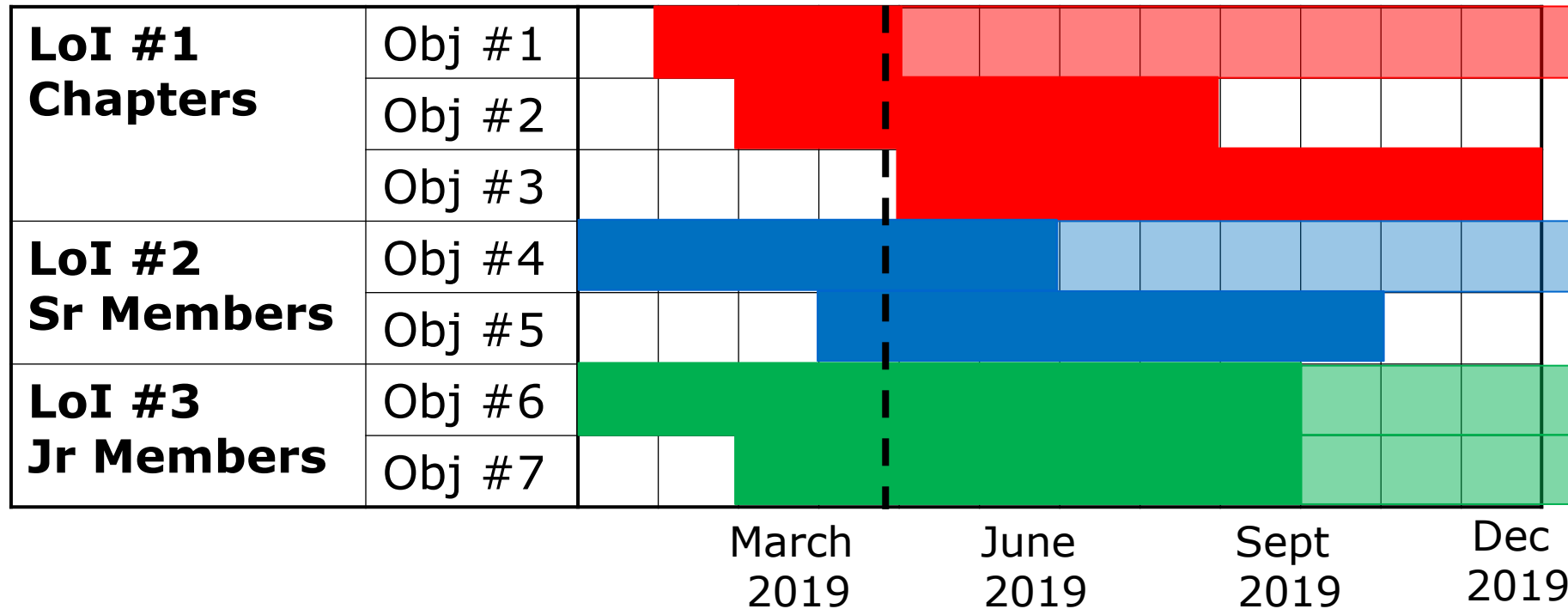
JR MEMBERS

Incentive to members for elevating to the next grade

Member Services – Objectives

Overview & Timeline

BoG Spring Meeting 2019



Committee Members

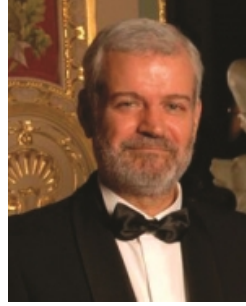
VP Finance Chapter Coordinator Grad Students Rep YP Rep



Fabiola Colone



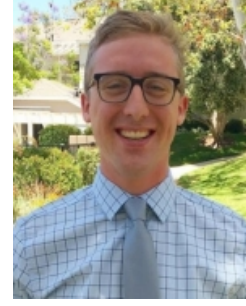
Josè Bolanos



Alfonso Farina



Francesca Filippini



Kameron Lacalli



Michael Noble



Roy Streit



Jason Williams

...and cooperations with other Committees within the BoG

Member Services – Objective #1

Periodic Communications with Chapters

S – Establish a pattern of periodic communications with Chapter Chairs to increase awareness in AESS events and activities.

M – Number of messages drafted and sent and stimulated interactions.

A – Assigned to: Williams (Lead), Colone, Farina, Lacalli, Noble.

R – Relevant to Goals 1, 3, 4, 6.

T – 3 Months for startup, then annual.

Member Services – Objective #1

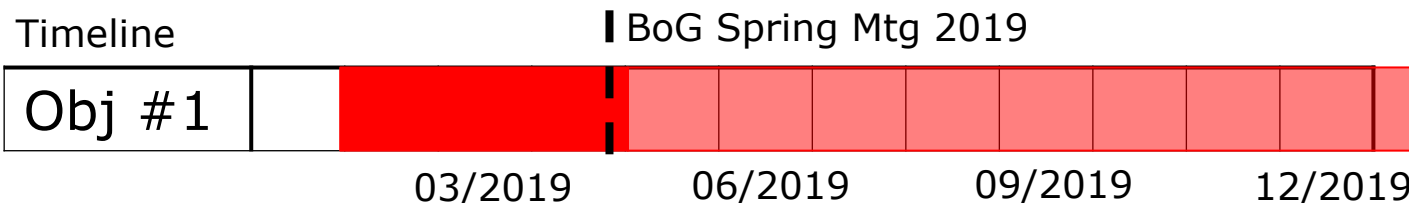
Tasks completed and activities in progress



- First message to Chapters Chairs drafted and ready to be sent (waiting for an updated mailing list)
- Provided timely responses to several messages from Chapters Chairs asking for guidance on various aspects.



- Drafting follow-up messages on
 - New release of docs providing guidance to Chapters
 - New «Best Chapter Award» process
 - Initiatives relevant to Chapters (Short Courses, DLs, etc.)
- Investigating the possibility of a Collaboratec Group for Chapters Chairs.
- Considering new AESS web-pages dedicated to Chapters.



Member Services – Objective #2

Best practice guidance to chapters

S – Review the Chapters Handbook and include guidance for best practices.

M – Documentation made available on the AESS website.

A – Assigned to: Noble (Lead), Bolanos, Colone, Farina, Williams.

R – Relevant to most Goals.

T – BoG Fall Meeting for a first draft.

Member Services – Objective #2

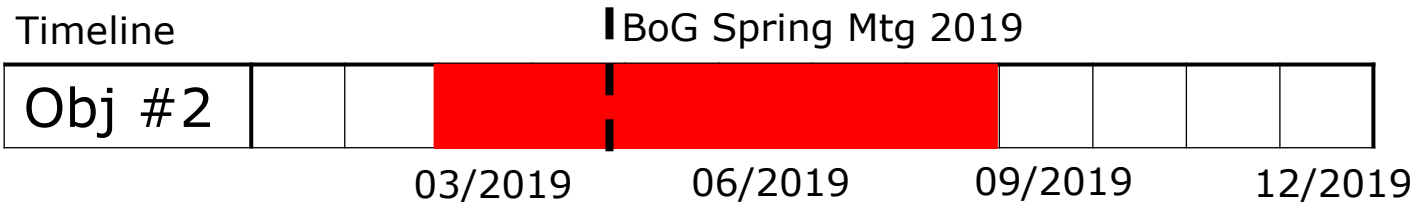
Tasks completed and activities in progress



- The Chapters Handbook has been revised and updated by the dedicated Committee (waiting for final review).



- Finalizing the review of the Handbook.
- Drafting «Chapters Best Practices».
- Distribute and publicize the docs to Chapters Chairs.



Member Services – Objective #3

Review of the Chapter of the Year Award

S – Review the process and requirements for assigning the Chapter of the Year Award and stimulate chapters nominations.

M – Documentation made available and number of nominations.

A – Assigned to: Colone (Lead), Streit, Williams + Gini/Willett.

R – Relevant to most Goals.

T – End of year.

Member Services – Objective #3

Tasks completed and activities in progress



- Analysis of the current status of the award process and identification of possible improvements.
- Analysis of the reporting strategies adopted by Chapters Chairs (vTools reporting, reports to Sections)



- Designing and implementing a revised process for assigning the award.
- Publicize the restyled process.



Member Services – Objective #4

Renovate publicity material and messaging

S – Update the publicity material and the messaging strategy we adopt to engage members in AESS initiatives. This includes QEB and AESS Website.

M – New layouts made available and new messaging strategy operating.

A – Assigned to: Colone (Lead), Filippini + Greco.

R – Relevant to Goals 5, 6, 7, 9.

T – 6 Months for startup, then continual.

Member Services – Objective #4

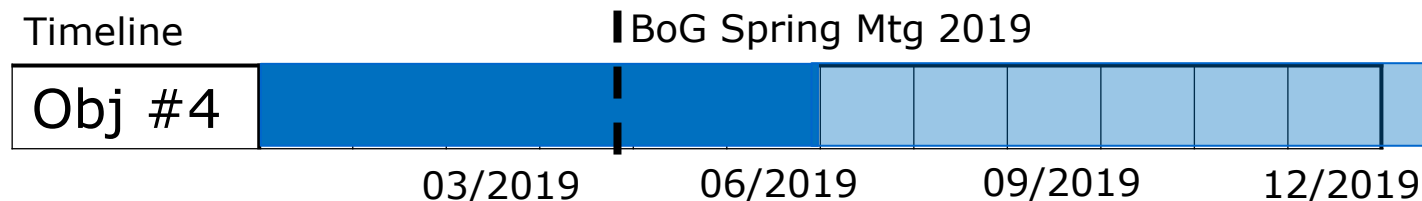
Tasks completed and activities in progress



- AESS Membership brochure improved.
- New welcome message for new and renewing members operational.
- "TryUs" campaign for new members approved and ready to be run.
- New QEB layout adopted in the last issue.
- AESS Membership Certificates available in Collabratec.



- Drafting follow-up emails addressing opportunities for members.
- Translating the QEB in Mandarin.
- Improving the WebSite contents.



Member Services – Objective #4

Highlights

Updated AESS Membership brochure

JOIN US!

We have a membership option that is right for you:

- IEEE Professional Member \$25 USD
- IEEE Student Member \$13 USD

OR

- Society Affiliate \$98.50 USD

Savings on subscription costs for IEEE members easily pays for the cost of AESS membership.

Contact

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<https://www.facebook.com/IEEEAESS>
https://www.twitter.com/IEEE_AESS

AESS Field of Interest

Members have professional interests in the organization, systems engineering, design, development, integration, and operation of complex systems for space, air, ocean, or ground environments. These systems include but are not limited to navigation, avionics, mobile electric power and electronics, radar, sonar, telemetry, guidance, control, automatic test, simulators, and command and control systems. The AESS is the Society for engineers working across the entire electronics systems domain.

Membership Matters

IEEE Aerospace & Electronic Systems Society

New welcome and renewing emails



Dear Member,

Thank you for joining the IEEE Aerospace and Electronic Systems Society (AESS). I warmly welcome you and appreciate your support.

The AESS is composed of professionals who share your technical interests. Membership allows you to:

- deepen the engagement with your technical community,
- take advantage of career development opportunities, and
- **keep** up-to-date with the latest scientific advancements in our fields of interest.

We will have the pleasure to inform you periodically on the many opportunities that might be relevant to you.

Get Started!

The AESS is committed to providing the highest level of service and benefits to members and affiliates in every stage of their careers.

I would like to invite you to get involved in our Society!

[AESS WEBSITE](#)

f t in

If you have questions, suggestions or comments, please do not hesitate to contact me at joe.fabrizio@dst.defence.gov.au.

All the best,

Giuseppe A. Fabrizio
AESS President, 2018-2019

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2019 TryUS campaign

AESS **IEEE**

Dear Member,

We invite you to join the IEEE Aerospace and Electronic Systems Society (AESS) at half price (US\$12.50 or US\$6.50 for students). Based on the technical interests you selected in your IEEE profile, we think you would be a great fit.

To take advantage of this offer, simply sign in with your IEEE Account. The membership will be in your cart.

Join AESS Today

2019 Certificate of Membership
IEEE Aerospace and Electronic Systems Society

This certificate recognizes

Fabiola Colone

as a Senior Member in good standing, denoting a personal and professional commitment to the advancement of technology

In the company of innovators worldwide

Giuseppe A. Fabrizio
2019 IEEE Aerospace and Electronic Systems Society President

Advancing Technology for Humanity

Membership Certificates in Collabratec profile.



Member Services – Objective #4 Highlights

1st Quarter 2019

ABOUT THE IEEE AEROSPACE & ELECTRONIC SYSTEMS SOCIETY (AESS) NEWSLETTER

Dear AESS Members,

With this QEB first quarter edition, we made a leap into the 2019 New Year, which marks the 50th anniversary of a "giant leap for mankind"™ Apollo 11 moon landing.

Several initiatives will be celebrated in this important AESS related event. Rele provided in the next QEB is:

In the meanwhile, Happy N May we always have the cc challenges and to attempt:

Imagined future.

"I think we're going to the moon because it's in the nat

Warmest regards,

Fabiola Colone
Editor-in-Chief, AESS QEB
fabio.colone@ieee.org

Elevated AESS Members

2019 IEEE Fellows

The IEEE Aerospace & Electronic Systems Society wishes those elevated by AESS to IEEE Fellows as part of the 2019:

- Steven Butler: for technical leadership in aerospace
- Hongbin Liu: for contributions to adaptive radar signal
- Teng Long: for contributions to high resolution radar
- Marcos Lopez: for contributions to radar target detect
- Bruce Butler: for contributions to data acquisition for information systems

View the full list of members elevated by the AESS Society o

2018 IEEE Senior Members

Senior Membership is the highest grade for which applicatio require experience reflecting professional industry, academic, scientific, educational, technical executive, or originator in IEEE professional practice for at least ten years and shall have at over a period of at least five of those years.

For more information, go to the IEEE Senior membership se

We congratulate the AESS Members elevated to Senior Mem



2nd Quarter 2019

About the IEEE Aerospace & Electronic Systems Society Newsletter

Dear AESS Members,

In this second update of 2019 we bring you the latest on the outstanding successes of our members, and we talk about our educational activities and share with you what's on our horizon.

Among the many interesting articles included in this ed would like to draw your attention to the article commemorating the 50th Anniversary of Apollo Missions 8 and Apollo 11 missions.

I am indebted to George T. Schmidt, AESS VP Technical Operations, for writing such a fantastic article that lever his own experience and takes a fascinating personal perspective on the events. I warmly suggest our younger members and all enthusiasts of history of technology to r for the full story.

Enjoy this new edition and, if you have any input on what would like to read about in the next editions or if you would contribute an article, please contact us!

Warmest regards,
Fabiola Colone
Editor-in-Chief, AESS QEB
fabio.colone@ieee.org

The Story Behind a Success

Congratulations to Patrick McCormick, winner of the 2018 Robert T. Hill Best Dissertation Award!

Read Story

Inside Apollo

Inside Apollo: Heroes, Rules and Lessons Learned in the Guidance, Navigation, and Control (GNC) System Development

By George T. Schmidt, AESS V.P.

New QEB layout!

Conferences

2019 IEEE Radar Conference
22-26 April 2019 in Boston, MA, USA
[Visit the Conference Website](#)

2019 IEEE International Workshop on Metrology for Aerospace
19-22 June 2019 in Torino, Italy
[Visit the Conference Website](#)

38th DASC Digital Avionics Systems Conference
San Diego, California, USA | September 9-12, 2019
[Visit the Conference Website](#)

2019 IEEE AUTOTESTCON
9-12 September 2019 in National Harbor, Maryland, USA
[Visit the Conference Website](#)

2019 International Carnahan Conference on Security Technology (ICCS)
1-3 October 2019 in Chennai, India
[Visit the Conference Website](#)

Have a conference you'd like advertised in the AESS Quarterly Email Blast? Contact [Judith Schormann](#) for details on how to have it included. [View More Conferences](#)

- The request to translate the QEB into Mandarin can be accommodated according to the IEEE Bylaws.
- AES will be responsible for translating and hosting the Mandarin version.
- We could then have it as a link on the English version of the AES newsletter.

Member Services – Objective #5

Establish Recognition for Reviewers

S – Identify and implement a feasible process to recognize the voluntary service of Reviewers.

M – Detailed plan on the whole procedure to be adopted.

A – Assigned to: Colone (Lead), Bolanos + Greco + Gini.

R – Relevant to Goals 5, 6, 8.

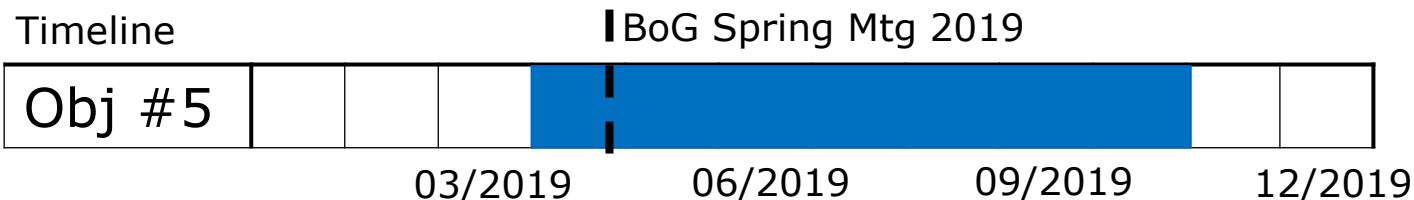
T – BoG Fall Meeting for first proposal.

Member Services – Objective #5

Tasks completed and activities in progress



- Started discussing possible forms of recognition as IEEE TAES Outstanding Reviewers and drafting the corresponding documents (notification message + certificate + QEB).
- Identifying appropriate processes for selecting the Outstanding Reviewers (should be easy to implement).



Member Services – Objective #6

Engage Student Members and YPs

S – Identify and implement effective strategies to actively engage StMs and YPs, possibly exploiting innovative/collaborative approaches.

M – Number of StMs and YPs in networks to be created.

A – Assigned to: Lacalli & Filippini (Lead), Colone, Noble.

R – Relevant to Goals 5, 6, 7, 8.

T – BoG Fall Meeting for first report, then continual.

Member Services – Objective #6

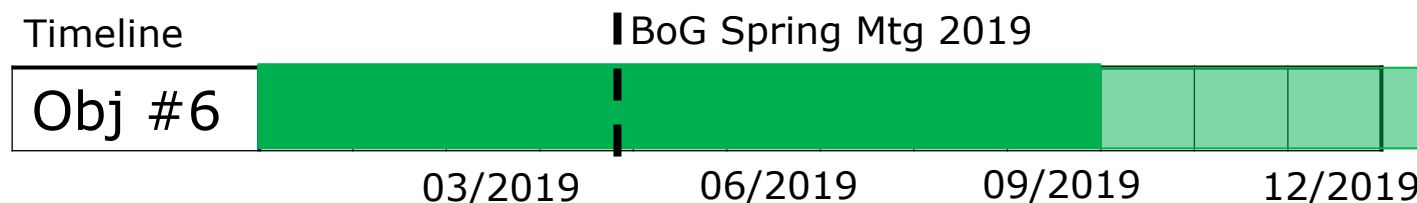
Tasks completed and activities in progress



- First message to StMs drafted and ready to be sent.
- YP event at IEEE Radar Conference 2019 (Boston, MA, USA)
- Exchange of emails with Felipe Massari (Chair Student Branch IEEE UFABC, São Paulo, Brazil) looking for opportunities and benefits in the AESS membership.



- Drafting follow-up messages to StMs
- Investigating the possibility of creating a social group.
- Looking for opportunities for other YP Events, not only at major conferences.



Member Services – Objective #6

Highlights

Because the high currency many of our members didn't renew the membership.

Our team at university is going big, but few of them have the memberships.

I would like to have some **ideas to motivate people** to working on AESS, and the most important, if you can help us with some **benefits in the AESS memberships.**

Hello Fabíola and Lorenzo,

I'm Felipe Massari, member of IEEE and chair of IEEE Student Branch in Federal University of ABC São Paulo, Brazil.

Our student chapter has had some problems in the last years.

Because the high currency many of our members didn't renew the membership and some of them leave our group. I struggle to increase the student chapter this year, but I always end up running into this difficulty, once the AESS's membership is the more expensive. Our team at university is going big, but few of them have the memberships.

I talking with some AESS student members to support the young professional because we don't have any program, project or activity o motivate people to participate. I not even found the representative of AESS in Brazil.

So, about this facts, I would like to have some ideas to motivate people to working on AESS, and the most important, if you can help us with some benefits in the AESS memberships. A discount of half or full membership to our student member will be awesome.

Thank you for your assistance and attention.

Felipe Massari
CHAIR STUDENT BRANCH IEEE UFABC

Member Services – Objective #7

Reinforce the Mentoring Program

S – Identify feasible strategy to give additional value to the Mentoring Program, an initiative dedicated to StMs and YPs.

M – Number of sign-up in the program.

A – Assigned to: Colone (Lead), Filippini, Lacalli, Noble + Lo Monte.

R – Relevant to Goals 5, 6, 7, 8.

T – BoG Fall Meeting for first report, then continual.

Member Services – Objective #7

Tasks completed and activities in progress



- Identifying appropriate solutions to simplify the registration stage.
- Publicize the program at large events.
- Identifying effective strategies to stimulate Mentor/Mentee interaction.
- Considering the possibility to establish grants for mentees.

