

Growth Through Engagement and Teamwork

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VP – Technical Operations

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Courtyard San Antonio Riverwalk

List of Goals

Technical Operations Committee

- 1) Review all technical panels for relevance, activity and leadership. Seek revitalization of those technical panels that may be dormant or lagging and drop those whose relevance or currency has expired. Seek to expand the portfolios of each panel, as well as, its membership.
- 2) Identify topics and potential leaders for new areas within our fields-of-interest where technical activities should be pursued and look for collaboration opportunities with other societies and organizations.
- 3) Implement guidance in the form of best panel practices from initial proposal of the panel through on-going operations and recognize outstanding technical panels achieving their goals.
- 4) In collaboration with Conferences, identify and recruit AESS members from technical panels and elsewhere to participate in organizing AESS conferences.
- 5) In collaboration with Education, promote interaction between technical panels and local AESS chapters by increasing the number of DLs on panels.
- 6) In collaboration with Publications, have each panel produce an annual Technology Assessment and Forecast or other new publications to enhance membership knowledge and advertise panel activities.

List of Objectives

- Monitor and assess each Panel's progress relative to the Tech Ops Future Directions Study.
- Promote unmanned and intelligent systems technologies at current or new conferences with other co-sponsoring IEEE societies or professional societies.
- Use a GAP analysis relative to DLs and Panels and work with Education to improve the distribution.
- Update and compile members TIPs so we can better understand who we are and what products and services should be offered.

Objective Description

- S** – Define/implement panel Future Directions Study results.
- M** – Assessment of Panel performance by Tech Ops committee assignees to that Panel. Committee telecon in March.
- A** – Assigned to: MR lead, and other committee members assigned to particular Panels.
- R** – Goal #1
- T** – Final results at Spring Board Meeting

Objective Description

- S** – Promote unmanned and intelligent systems technologies
- M** – Progress presentations at Board Meetings. Initial presentation at April Board Meeting.
- A** – Assigned to: ASP lead with Alope Roy and Schmidt assist. All Panels invited to participate.
- R** – Goal#2
- T** – Begin now and continue for the long-term. Potential AI speakers for DASC identified.

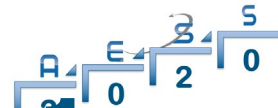
Objective Description

- S** – Use a GAP analysis relative to DLs and Panels and work with Education to improve the distribution.
- M** – At the end of the year compare the number and distribution of DLs with technical interests associated with each Panel.
- A** – Assigned to: Schmidt
- R** – Goal #5
- T** – End of 2020

Objective Description

- S** – Update and compile members TIPs to determine who we are
- M** – Go from 60% to 70% membership TIP data
- A** – Assigned to: Schmidt
- R** – Goals #1 and #2
- T** – Complete assessment by March 30.
Request for members to update their TIPs in upcoming QEB.

Technical Interest Profile (TIPS)-1



- To edit your TIPS: Log in, Click on your name, Manage your profile, then Technical and other interest profile.
- You select an interest area, then a **technical focus** in that area, and then an interest level: (1) I regularly work in that area, (2) I do some work in that area, or (3) Not my area but am interested

Example: **Interest area: Aerospace and Electronic Systems**

- **Technical focus:** Integrated Avionics
- **Interest level:** I regularly work in this area

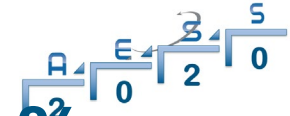
Technical Interest Profile (TIPS)-2

August 2, 2019 Test Case:

- Data from 2709 of 4573 members.
- On average, each member identified 5 TIP (focus) areas each ranging from regularly work to interested. Total TIPS were over 10,000
- Next we only counted TIPS on where they regularly work in that area.
- That resulted in 6044 tips (more than 2 per member)

Sample TIP Output

Contact TIP Subject Desc	Count of Members
Aerospace And Electronic Systems	784
System Engineering	356
Radar	262
Antennas And Propagation	224
Signal Processing	208
Communications Signal Processing	122
System Design	122
Space Systems	109
Wireless Communications	108
Integrated Avionics	107
Communications	102
Satellite And Space Communications	101
Technology Management	98
Microwave Theory And Techniques	98
Geoscience And Remote Sensing	79
Detection, Estimation And Identification	79
Computer	76
Software Engineering	73



Percentages: Divide Tip Count by # of members responding (2709). This is the % of members regularly working in the focus area.

Aerospace and Electronic Systems 28%

Systems Engineering 13%

Radar 9.6 %

Antennas and Propagation 8.2%

Signal Processing 7.6%

Communications Signal Processing 4.5%

The next study will be after the February member terminator runs and we will compare the results