

## CHARTER

1. The Radar Systems Panel (RSP) is a Technical Panel of the IEEE Aerospace and Electronics Systems Society (AESS) and its activities should be in line with the purposes of the AESS.
2. The purpose of the Panel is:
  - to sustain and oversee the program of IEEE Radar Conferences;
  - to manage the nomination and selection of candidates for IEEE Awards in the domain of Radar;
  - to promote and support publications in the domain of Radar;
  - to promote educational activities in the domain of Radar;
  - to encourage the submission of nominations for IEEE Fellows and Senior Members in the domain of Radar;
  - to provide periodic revision of IEEE Standards pertaining to the domain of Radar.
3. The Panel is composed of IEEE members who are representatives of industry, government laboratories, educational institutions and professional societies, and who are active in the domain of Radar. It consists of 30 to 45 elected active members, Chair, Vice-Chair, and the recent Past Chair.

## ORGANIZATION

The Radar Systems Panel meets at least annually, usually at the IEEE Radar Conference. An additional meeting may be held at an International Radar Conference, subject to the meeting being called by the Panel Chair, respondent to the anticipated attendance of a representative number of RSP members. Further discussions are held by email as led by the Panel Chair or Committee Chair with decisions and votes taken by email proxy, as appropriate. The Panel Chair or their designee provides minutes of meetings, attendees' list and a current membership list after the meeting.

The panel includes five or more standing Committees. Current Committees are:

- Radar Conference Committee: responsible for selecting the venue for the IEEE Radar Conference, consistent with the IEEE guidelines on Conferences.
- Awards Committee: responsible for selecting nominations for the IEEE and AESS Awards, and conducting a selection based on RSP established standards and procedures.
- Standards Committee: responsible for maintaining, periodic revision and communication of the IEEE Standard 686 'Standard Radar Definitions' and IEEE Standard 521 'IEEE Standard Letter Designations for Radar Frequency Bands, and provides inputs for other IEEE Standards as requested.
- Education Committee: responsible for advancing the education, publications, and IEEE member levels of students or new members of the Radar community.
- Nomination and Appointments Committee: responsible for the process of nomination of Panel Chair and Vice-Chair, IEEE Senior Members and Fellows, and maintaining the

process for selection of Radar System Panel members with the concurrence of the current RSP Chair.

- Waveform Diversity Committee: responsible for fostering the development of advancing technologies to enable more reliable radar operation in a congested spectrum, and within the Policies and Standards of World Wide Spectrum Allocations organizations.
- Civilian Radar Committee: responsible for fostering the development of radar technologies and applications in the civilian, commercial and earth resources monitoring communities, through education and conference initiatives.

Each Committee Chair has the responsibility of documenting the processes used for selection of members, and conducting the Committee responsibilities. Each Committee elects its own chair from members, with the concurrence of the Panel Chair.

The Panel elects a Chair and Vice-chair, both of whose term of office is limited to two years. An election will be held in the calendar quarter prior to the end of the term of office to elect both a new Chair and the Vice Chair. The Vice Chair can stand for election of Chair, but the current Chair cannot stand for re-election. Voting and rules-of-order are established in the By-Laws of the Aerospace and Electronic Systems Society. The Vice-Chair will stand in and lead Panel meetings when the Chair is absent.

Membership in the Panel is open to active IEEE and AESS members from the Radar community, who has demonstrated leadership and the desire to advance Radar technology and system capabilities. Membership falls into one of two categories: (i) active, (ii) emeritus. To remain active, a member must have attended at least 2 of the past 4 meetings. Missing 3 consecutive meetings means being dropped from the list of Active Members, in the absence of extenuating circumstances.

Only Active Members of the Panel can vote on RSP motions and business decisions.

Committees are not considered to be permanent, and will be continued at the recommendation of the RSP Chair, the Vice-chair and the Nominations and Appointments Committee. Initiation and/or conclusion of a Committee activity will be authorize only by a vote of the RSP membership.

## OBJECTIVES

The objectives of this Panel are represented by the objectives of the individual committees.

Radar Conference Committee Objectives:

1. Solicit and provide preliminary reviews of prospective Conference proposals.
2. To strengthen the IEEE Radar Conference series by encouraging more regional and international participation.
3. Educate Radar Conference Committees as to Best Practices

4. Make a recommendation on the future of the cycle of international conferences
5. Maintain a repository of past conference Budgets, Final Reports, and lessons learned.

#### Awards Committee Objectives

1. To honor our major technology contributors.
2. Establish and publish process for nomination and selection of IEEE and AESS Radar Awards, including the Warren White Award, and the Fred Nathanson Award for Young Engineer.
3. Increase the visibility and number of candidates for Major IEEE Awards.
4. To award those unselfish individuals that donates their time and energy to promote the Radar community.

#### Standards Committee Objectives

1. To reaffirm IEEE Std 521 'IEEE Standard Letter Designations for Radar Frequency Bands'
2. To reaffirm IEEE Std 686 "Standard Radar Definitions"
3. To provide input to Standards maintained by other parts of the IEEE.

#### Education Committee Objectives

1. Invigorate the process for Student participation in IEEE Radar Conference.
2. Facilitate Tutorials for Radar Conference and Section Meetings
3. Encourage the generation and dissemination of Radar educational opportunities.
4. Establish initiatives for undergraduate (GOLD) and graduate students, to be funded by the AES Society or Conference Partners, which will attract and expand the AESS membership.

#### Nominations and Appointments Committee Objectives

1. Establish and document the process for election of RSP Chair & Vice-Chair, and Committee chairs
2. Plan and execute Election process for RSP Chair and Vice-Chair
3. Facilitate RSP nominations/endorsements for Senior Member and Fellow Grade.
4. Establish and document the process for new member acceptance to the RSP. The process will be developed with concurrence of the current RSP Chair
5. Establish and document criteria for removing inactive members from the RSP. The process will be developed with concurrence of the current RSP Chair

#### Waveform Diversity Committee Objectives

1. Encourage technical interchanges that address the spectrum allocation and compliance policies that affect development and fielding of radar systems.

2. Organize special sessions that provide new technologies for radar operation in limited spectrum, including MIMO, adaptive and cognitive waveforms, and supporting hardware technologies.
3. Provide technical expertise to radar advocates relative to spectrum policy making.

Civilian Radar Committee.

1. Promote civilian and commercial radar applications, technology for non-military purposes.
2. Organize special sessions that provide new technologies for civilian radar operation such as automotive, aviation, air traffic control, and earth resource and weather monitoring.
3. Collaborate and track the needed focus on shrinking spectrum in civilian applications, but not duplicate the efforts of the Waveform Diversity Committee

*Last Updated \_\_\_\_\_ August 2014*