

# Radar Systems Panel

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**RSP chair**

# Introduction

## Composition:

- 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.

# Introduction

## Purpose:

- 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.

# Panel Committees (1 of 2)

- **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.

# Panel Committees (2 of 2)

- **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.

# RSP goals and objectives (1 of 3)

## Radar Conference

- Solicit and provide preliminary reviews of prospective Conference proposals.
- Strengthen the IEEE Radar Conference series by encouraging more regional and international participation.
- Educate Radar Conference Committees as to Best Practices
- Make a recommendation on the future of the cycle of international conferences
- Maintain a repository of past conference Budgets, Final Reports, and lessons learned.

## Standards

- Revise IEEE Std 521 'IEEE Standard Letter Designations for Radar Frequency Bands'
- Revise IEEE Std 686 "Standard Radar Definitions"
- Provide input to Standards maintained by other parts of the IEEE.

# RSP goals and objectives (2 of 3)

## Awards

- Honor our major technology contributors.
- 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.
- Increase the visibility and number of candidates for Major IEEE Awards.
- Award those unselfish individuals that donates their time and energy to promote the Radar community.

## Education

- Invigorate the process for Student participation in IEEE Radar Conf.
- Facilitate Tutorials for Radar Conference and Section Meetings
- Encourage the generation and dissemination of Radar educational opportunities.
- 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.

# RSP goals and objectives (3 of 3)

## Waveform Diversity

- Encourage technical interchanges that address the spectrum allocation and compliance policies that affect development and fielding of radar systems.
- Organize special sessions that provide new technologies for radar operation in limited spectrum, including MIMO, adaptive and cognitive waveforms, and supporting hardware technologies.
- Provide technical expertise to radar advocates relative to spectrum policy making.

## Civilian Radar

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



# RSP recent activities

- New charter and bylaws (approved August 2014)
- Meeting in Lille (October 2014) @ International Radar Conference
- Updates of Warren White and Nathanson awards application forms
- Open call for 2018 IEEE Radar Conference (AESS Magazine and QEB)
- Organization of a Panel meeting on Waveform Diversity in conjunction with 2015 IEEE Radar Conference in Washington DC

# Next steps

- Build a common vision and a strategic plan for next 3 years
- Strengthen diversity and international participation in the RSP
- Move the IEEE Radar Conference outside US, twice out 5 times (5 year cycle)
- Increase contribution on civil radar applications and technologies in radar conferences and Panel activities
- Increase RSP activities concerning Waveform Diversity and frequency spectrum sharing
- Organize special educational event to attract more students and young Engineers