

# Education

**AESS Board of Governors Meeting**

**May 12-13**

**Seattle, WA**

**Kathleen A. Kramer**  
**VP Education, AESS**



# Objectives

- What are our long term strategic **objectives**?
  1. Distinguished Lecturer Program *will strengthen AESS with better reach of YP audience, to more chapters, and with increasing alignment with technical interests.*
  2. Tutorials will be more useful, *changing who we reach and how we reach them*
  3. Increase Education activities' interaction with and for those underrepresented in our membership.
- How these objectives help to grow the AESS...
  - Educational programs, along with publications and conferences, are a key element of the society's interaction with its members.
  - Educational programs benefit members locally, increase visibility and reputation where the program is delivered, and give local potential members a reason to join.
  - Educational programs further interest and knowledge in the technical areas AESS exists to advance.

***Growth can mean increasing membership, but also could mean increasing revenue, influence and impact, or recognition.***

8/8/2022

# Initiatives

## ■ What are our short term (1-2 year) **initiatives**?

### 1) Improve existing DL program and services

- Increase DL activity, reporting, expectations
- Utilize improved geographic and technical distribution.
- Update DL materials annually to improve promotion of AESS and access to Educational programs.
- Increase DLs for chapters, YP, and WIE
- Expand tutorial offerings AND through means other than online - conferences and publications

### 2) Programs and Support for YP/Student Members

- Mentoring Program
- Robert T. Hill Dissertation Award
- Working with a for YP/Student on projects - YP rep is a DL, **YP in SPACE**, IEEE-HKN, WIE
- DL for IEEE Rising Stars
- **Radar Panel YP Summer School Project**
- Fundamentals Tutorials

# Initiatives

- What are our short term (1-2 year) **initiatives**?

## 3) Increase Awareness and Opportunity for Educational Programs

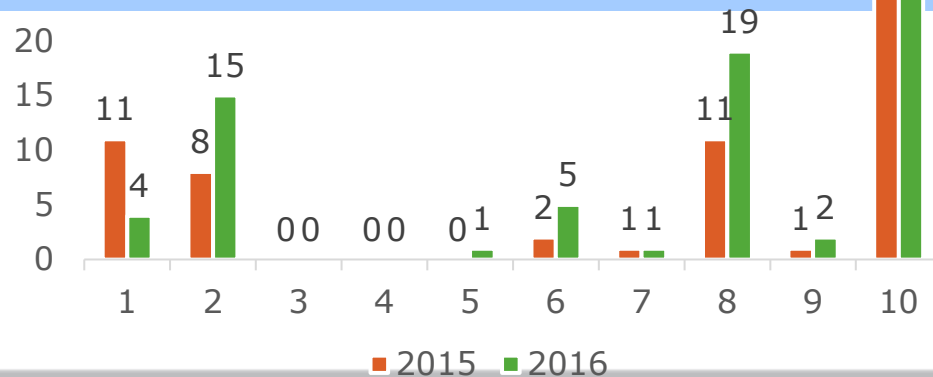
- Open call for nominations for new DLs for 2017-18 got big response and resulted in larger, more technically diverse, pool.
- Mentoring efforts involving large based of volunteers
- “Chapter’s First DL” program to encourage chapter participation
- Regular support and coverage in Systems Magazine
- QEBs highlighting DL/Tutorials in each issue
- Targeting conferences to promote to YP/students

# Distinguished Lecturers 2016



DLs by Region

■ 88  
(reported) –  
up 20%



# Distinguished Lectures – Technical Panel Alignment 2017

	Aerospace Control & Guidance Systems	Aerospace Systems Integration Engineering	Avionics Systems	Cyber Security	Gyro and Accelerometer	*Proposed* Navigation Systems	Radar Systems	Space Systems	Target Tracking Systems	Unmanned Aerospace Vehicles
<b>Maruthi Akella</b>								X		X
<b>Yaakov Bar-Shalom</b>		X							X	
<b>Erik Blasch</b>	X	X							X	
<b>Eli Brookner</b>							X		X	
<b>Larry Chasteen</b>		X	X				X			
<b>Fred Daum</b>		X					X		X	
<b>Mark Davis</b>							X		X	
<b>Walt Downing</b>			X			X		X		X
<b>Giuseppe Fabrizio</b>		X					X		X	
<b>Alfonso Farina</b>							X		X	
<b>Maria Sabrina Greco</b>							X		X	
<b>Hugh Griffiths</b>							X		X	
<b>Phillip Hall</b>										X
<b>Lorenzo LoMonte</b>							X			
<b>Wolfgang Koch</b>	X	X					X		X	
<b>Kathleen Kramer</b>				X		X				
<b>Surendra Pal</b>	X	X						X		
<b>Zhihua Qu</b>										X
<b>Bob Rassa</b>		X								
<b>Avid Roman-Gonzalez</b>								X		
<b>George Schmidt</b>	X	X	X		X	X				X
<b>Michael Wicks</b>							X	X		
<b>Peter Willett</b>							X			
<b>Ji Wu</b>								X	X	

*Gap analysis table is by  
Walt Downing*

# Highlights – Supporting YP and Students

- Mentoring initiative (Fabrizio) – at 2017 Radar Conference
  - 8 pairs. Many interested.
- 2<sup>nd</sup> Robert T. Hill Dissertation Award Presented on May 10
  - Dr. Shunqiao Sun
  - Thanks to effective committee – Koch, Wicks
  - 2017 Call for Nominations in Systems Mag and at multiple conferences
- Other YP initiatives/events
  - Education-YP Partnership



# Highlights – Supporting YP and Students

- Summer School pre-2017 Radar Conference–
  - 43 attended (45 registered) -- these were **primarily YP-students** (70% PhD students)
  - YP networking event followed
  - 17-page report received from Mike Picciolo.
  - Broad participation and support by “AESS stars”





# Assessment

- Educational activities are of significant interest to our members, particularly our technical and society leadership.
- Programs intended to support students get resources and leadership DL program and others are typically extraordinarily efficient, with many no/low cost programs given.
- effort in Education and reach across areas. AESS does not have a large student base of recipients, but Summer School was particularly successful in reaching students.
- Larger share of support for a chapter's first DL of the year has opportunity to be helpful to better achieve goals of the program.
- Resource Center intended to serve across areas but costs started Jan 1
  - No benefits yet.