

Education

AESS Board of Governors Meeting

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St. Petersburg, FL, USA

Kathleen A. Kramer
VP Education, AESS



Objectives

- What are our long term strategic **objectives**?
 1. Distinguished Lecturer Program will strengthen AESS with increasing alignment with technical interests, underserved groups (YP and geographic), and help for chapters.
 2. Tutorials will be more useful, we are working to increase their audience and their usefulness via the Resource Center.
 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.

EDUCATION has an overall strategy of active collaboration across all major AESS areas of activity. EDUCATION activities are better because of each VP/officer and Education promotes their success.

Initiatives

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

1) Improve existing DL program and services

- Increase DL activity, reporting, expectations
- Improved geographic and technical distribution.
- Update DL materials annually to improve promotion of AESS and access to Educational programs- need another update for the Mentoring Program.
- Increase DLs service for chapters, YP, and WIE
- Expand tutorial usefulness via the Resource Center

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-SPACE, IEEE-HKN, WIE-ILS, DL for IEEE Rising Stars
- Radar Panel YP Summer School Project at Radar 2017 - **May I fund it for 2018?**
- Fundamentals Tutorials

Initiatives

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

3) Increase Awareness and Opportunity for Educational Programs

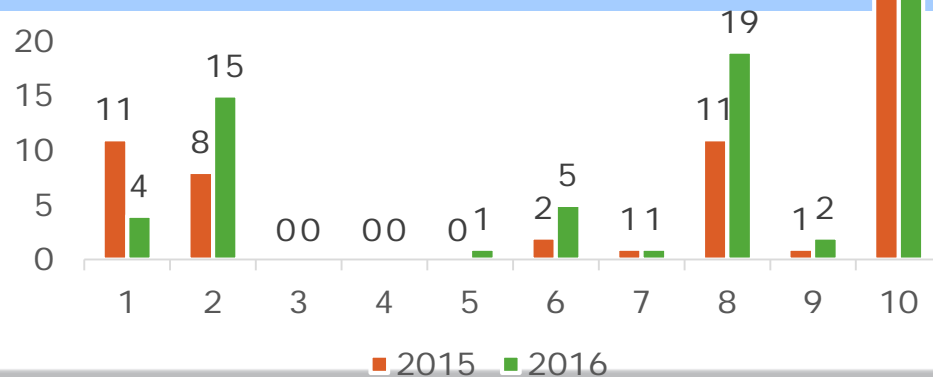
- Larger, more diverse (technically, geographically, other) pool.
- Resource Center
- Mentoring Program – major effort led by Mentoring Committee (led by Joe Fabrizio) involving large based of volunteers
- “Chapter’s First DL” program to encourage chapter participation
 - Moscow, Colombia, Central Coast (CA), Alaska
- Regular support and coverage in Systems Magazine
- QEBs highlighting Education offerings in each issue
- Targeting conferences to promote to YP/students and WIE

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
Maruthi Akella								X		X
Yaakov Bar-Shalom		X							X	
Erik Blasch	X	X							X	
Eli Brookner							X		X	
Larry Chasteen		X	X				X			
Fred Daum		X					X		X	
Mark Davis							X		X	
Walt Downing			X			X		X		X
Giuseppe Fabrizio		X					X		X	
Alfonso Farina							X		X	
Maria Sabrina Greco							X		X	
Hugh Griffiths							X		X	
Phillip Hall										X
Lorenzo LoMonte							X			
Wolfgang Koch	X	X					X		X	
Kathleen Kramer				X		X				
Surendra Pal	X	X						X		
Zihua Qu										X
Bob Rassa		X								
Avid Roman-Gonzalez								X		
George Schmidt	X	X	X		X	X				X
Michael Wicks							X	X		
Peter Willett							X		X	
Ji Wu								X		

*Gap analysis table is by
Walt Downing*

Highlights

■ DLs

- Major increase in accessibility of DLs, along with increases that addressed gaps in technical interest and geography.
- Collaborations across activities and initiatives.

■ Resource Center (Blair lead)

- Transformation of approach to tutorials
- Wide support from lecturers, including quizzes for use in getting certificates,
- New material coming

■ Mentoring initiative (Fabrizio lead)

- 2017 Radar Conference
- Chapter promotion
- DL promotion

■ Robert T. Hill Dissertation

- Major success: Received 4 well qualified nominations for 2017 by the first (and only) August 15 deadline. (cheering is appropriate)
- 2016 Award to Dr. Shunqiao Sun at Radar 2017 and its subsequent publicity was significant boost. (Thanks very much to Koch, Wicks, Greco, and all our VIPs at Radar 2017)

Assessment

- Educational activities are of significant interest to our members, particularly our technical and society leadership.
- Every initiative involves more support– to at least some degree, such as for announcements, online resources and tools, applications, reporting...
- Resource Center intended to serve across areas – so much accomplished in a short time
- DL program is typically extraordinarily efficient, with many (vast majority) no/low cost DLs given. Larger share of support for a chapter's first DL of the year is helpful to better achieve goals of the program.
- Programs intended to support students get resources and leadership effort in Education and across areas but we do not have a large student base of recipients.
- Scholarships effort needs more progress.