

Education Strategic Planning

AESS Officers Strategic Planning Meeting

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Mission and Vision

■ Mission

- Develop and coordinate the educational activities of the Society to provide ***timely, relevant and interesting educational topics and delivery methodologies*** to our members and other members of the ***aerospace/defense community***.
- Provide the means to deliver ***high quality Distinguished Lectures and Tutorials*** to our audience.
- Address the needs of ***emerging engineers***.

■ Vision

- AESS will be recognized for its leadership in serving as an essential professional forum for delivering ***world-class educational activities that advance our international technical communities and are valued by AESS*** members.

Education

3-Year Goals

- Strengthen the Distinguished Lecturer Program and Services, including tutorials.
- Develop and improve programs that support those underrepresented in our membership, including Young Professional (YP) and student members
- Increase awareness and opportunity for educational programs

Strategic Analysis

■ Strengths

- Strong base of activities across society related to Education
- Radar Systems, Tracking, and Fusion topics education activities supported by and supporting activities across AESS.
- Support from Publications, Conferences, Membership, TechOps.
- Base that supports and wants greater involvement in Education Activities. Technology community and industry base that values education and expert knowledge.

■ Weaknesses

- Small side of medium society. Membership demographics – age, gender, geography.
- Uneven coverage for some areas technically and geographically.

■ Opportunities

- Newer DLs with new technical and geographic coverage.
- Resource Center
- Society technical interests that coinciding with initiatives: UAS, Cyber, Navigation, Big Data

■ Threats

- Lack of YP and WIE membership interest and involvement. Small number of student members. Low rate of membership at AESS conferences.
- Getting stronger use of online presence, like Resource Center, requires some change.
- Struggle to get many nominations for thesis award and similar issues in recent years.
- Education Committee turnover.

Grow the Distinguished Lecturer Program

By delivering more DLs and ensuring the program is aligning to meet the needs more members

Performance metrics for measuring progress

- Number of DLs by individual lecturers and audiences reached
- Analysis based upon technical and geographic interests served.

Assigned to: VP-Education and Committee

Relevant to goal(s) to

- Strengthen the Distinguished Lecturer Program and Services, including tutorials. Results will of metrics inform renewal and call for DL process in later 2018.
- Increase awareness and opportunity for educational programs

Time period for performance

- 2 years: ending near end of 2018

Related Activities

- Increase DL activity, reporting, awareness of expectations.
- Charge Education Committee members with some geographic advocacy
- Utilize improved geographic and technical distribution.
- Increase DLs for chapters, YP, and WIE – Important to leverage DL activities in establishing and reinvigorating chapters.
- DLs should be given where we have concentrations of members.
- Update DL materials annually to improve promotion of AESS and access to Educational programs.
- Include DL related information and news appropriate to that media in QEB, Systems Magazine, Transactions, social media.

Increase Reach of Online Tutorials

By improving and expanding offerings through Resource Center

Performance metrics for measuring progress

- Use of Resource Center tutorials and related offerings
- Addition of tutorials to Resource Center.

Assigned to: Jason Williams on Resource Center with committee-wide effort to leverage conference tutorials into center.

Relevant to goal(s) to

- Strengthen the Distinguished Lecturer Program and Services, including tutorials. Results will of metrics inform renewal and call for DL process in later 2018.
- Increase awareness and opportunity for educational programs

Time period for performance

4/15/202

- Annual

Related Activities

- Assign individual committee members to conferences to look for tutorials
- Chapter Recording initiative

Increase Education activities' interaction with and for those underrepresented in our membership

Including Young Professionals, Students, WIE, and by technical or geographic alignment

Performance metrics for measuring progress

- YP/Student and WIE involvement and visibility in AESS Education Activities including
 - ✓ Distinguished Lecturer diversity of lecturers
 - ✓ Activities within major AESS conferences, including tutorials for resource center
 - ✓ Increased nominations and visibility for Robert T. Hill Award
 - ✓ Radar Summer School 2018

Assigned to: Various on committee, with individual conferences assigned

Relevant to goal(s) to

- Develop and improve programs that support underrepresented, including Young Professional (YP) and student members
- Strengthen the Distinguished Lecturer Program and Services, including tutorials. Results will of metrics inform renewal and call for DL process in later 2018.
- Increase awareness and opportunity for educational programs

Time period for performance

Related Activities

- Conference-targeted YP and similar events
- Robert T. Hill Dissertation Award
- Radar Summer School
- IEEE Rising Stars DL and Support
- Undergraduate Senior Project Awards and IEEE-HKN
- Fundamentals Tutorials
- Coverage in QEB, etc.

Overview/Summary of Education Committee Annual Activities

- Distinguished Lecturer
 - Interaction with and support for DLs
 - Requests for support of DLs at local IEEE events, approving and ensuring meet guidelines
 - Encouraging and supporting chapters to host DLs, especially those who need more activity.
 - Reporting and tracking of DL activities. Analysis/metrics relative to technical and geographic needs.
 - Call for new DLs (various, culminating Nov 30 2018)
 - Selection of new DLs and transitioning (**end of 2018**) -- separate committee of senior DLs
- Tutorials and Resource Center - New and updated Education Content for Resource center
 - Recording of new tutorials for resource center at major AESS conferences
 - Robert T. Hill Dissertation Award
 - Award presentation (at RadarConf – **April 25**) and work to coordinate
 - Call for nominations (**March-August**) and recruiting nominations
 - Committee evaluation early Nov. –
 - Scholarship and Fellowship Program (Rassa)
 - Young Professionals and WIE Education Programs at Various Conferences
 - Short Course Initiative (Joe)
 - Publication of calls, updates, news