IEEE Aerospace Electronic Systems Short Course Program

Luke Rosenberg

2022 AESS Spring Board of Governors Meeting
25-26 March 2022
New York, New York, USA
Strengths
- A number of programs have been successfully run in Europe, Australia and South America.
- Excellent feedback on courses
- First virtual short course ran in 2021

Weaknesses
- Lost momentum during Covid
- Lack of awareness of the program
- Small number of speakers registered on the website – have they even given a course?

Opportunities
- Spread the word through word of mouth, advertising electronically and through the Systems magazine
- Virtual short courses can be used to enhance the offering (perhaps use a more interactive platform)
- Industry and Education committee links

Threats
- IEEE has an online seminar platform (https://ieeexplore.ieee.org/courses/category/1)
- Other industry courses and cheap online courses (need to highlight benefits of this program - interactive and can be configured to match the need of the host.)
Australian courses

- Joe Fabrizio 2015, 2019, 2021, 2022
  - 1 day course on Over the Horizon Radar
  - Targeted course for industry, 20-30 attendees for each course.

- Lorenzo Lo Monte 2017
  - 3 day course on Radar Systems Prototyping and Electronic Warfare
  - Open course, 45 attendees across defence, industry and academia.

- David Crouse 2019
  - 2 day course on Basic Algorithms for Target Tracking
  - Open course, 114 attendees (78 from defence, 8 university and 29 from industry).

- Mark Davis 2021
  - 4 day (3 hours per day) Virtual short course on Ultrawide Band Radar with beginner and advanced days.
  - Open course, 54 attendees across defence, industry and academia.
Next steps

▸ Planning For Returning To Normalcy From COVID19 Pandemic
  - Enhanced offerings available – advertise for new presenters
  - Courses offered either online, in-person or perhaps hybrid?
  - Outreach to all AESS chapters and local industries – include some case studies.
  - Advertisement at conferences, System magazine and the AESS email blast

▸ Quantify Attainable Metrics For Next 3 Years
  - Run at least one short course in each IEEE region.
  - Increase awareness of the short course program through advertising and email contact to sections.
  - Reach out to the DLs and ask them if they would be prepared to turn their DL into a short course (aim for 5-10 new courses).

▸ Collaboration opportunities
  - Do we want to collaborate with other societies, i.e. signal processing, antennas and propagation?