

Summary report by Alfonso Farina

Contributions to Objectives 4 and 6

October 7-8, 2016

Edinburgh (UK)



A. Farina

Member at Large, BoG AESS

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- Contributions to “Hystorical Interviews”
- Contribution to “Memorials”
- Contribution to “Special Issues and Tutorials”
- See you in 2018

In few words:



IEEE Aerospace and Electronic Systems Society



BoG member: 2011-2016

VP Industry Relations: 2013-2015

Outstanding Leadership Award Chair: 2015-2016 (work in progress)

Meetings attended:

- 9 out of 12 BoG meetings, missing Spring 2011, Fall 2013, and Fall 2014.
- 3 out of 4 Officer Strategic Planning Meetings, missing the one in 2015.

Statements: 2010, March 2013

Statement (2010)

"I intend to promote the use of radar technology and systems to help solve the problems (e.g.: environmental monitoring, climate change, security, etc) that humanity has today. I also wish to attract the attention of the young and the students to the fascinating areas of radar engineering and science in general."

Statement (2013)

"I intend to promote the use of radar technology and systems to help solve the problems (e.g.: environmental monitoring, climate change, security, etc) that humanity has today. I also wish to attract the attention of the young and the students to the fascinating areas of radar engineering and complex systems in general. I will do my best to enhance and disseminate the culture of complex systems."

Meeting: Myrtle Beach, 23-27 April 2012

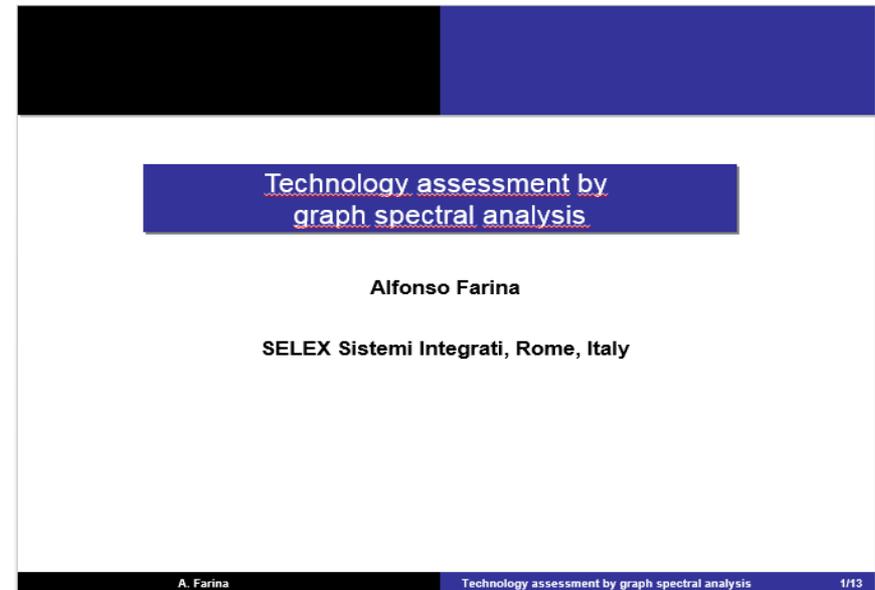
- Alfonso Farina put forth an idea: organize a “Festival of Science”, targeting young people. This would give young people the opportunity to re-discover the enjoyment of science. One day dedicated to the IEEE in general. Get the word out about IEEE.
- Alfonso mentioned the “Queen Elizabeth Prize for Engineering”, an award given by the Royal Academy of Engineering. We would like one nomination for this award.
- ACTION ITEM: Alfonso Farina – Write down concrete ideas about an initiative with UNESCO and the “Festival of Science” idea and send them to Hugh. AI-0423
- ACTION ITEM: Alfonso Farina – Send Queen Elizabeth Prize for Engineering information to IEEE. AI-0427

Meetings: Anaheim (Ca), 14-15 September 2012



21 pp

13 pp



Meetings: Ottawa, Canada, May 3-4, 2013

AESS Board of Governors Meeting, May 3-4, 2013, Novotel, Ottawa, Canada

Mentoring Scheme: Joe Fabrizio wants a committee to help him develop this program. Ad Hoc Committee: Joe Fabrizio, Bob Rassa, Alfonso Farina, Teresa Pace, Judy Scharmann

Mentoring Scheme

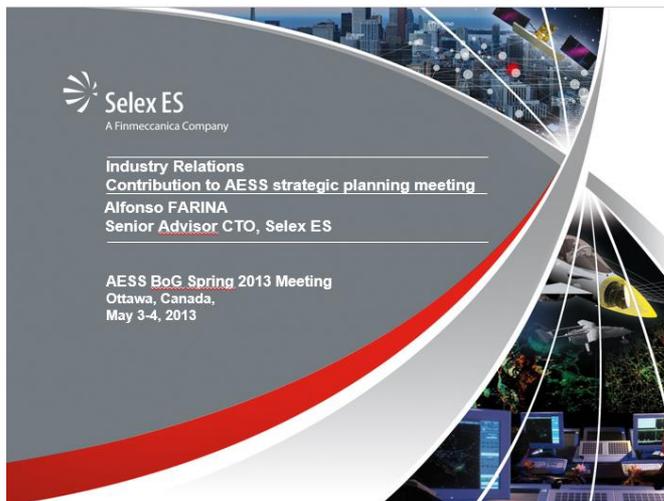
Joe mentioned how much Alfonso Farina's mentorship has meant to him. We need to do this. We simply cannot leave our student members to fend for themselves.

Alfonso Farina suggested adding Space weather to the topics of the Space Systems TP. He will discuss with Cosimo off-line, perhaps have a track at a conference, or a working group.

- **Brochure on Radar**
Museum of Selex, pp. 24

Meetings: Ottawa, Canada, May 3-4, 2013

- **Industry Relations – Alfonso Farina**
- AESS Board of Governors Spring 2013 Meeting, May 3-4, 2013 - Ottawa, Canada Page 6
- Alfonso suggests we create an Industry Relations webpage and use it for the exchange of ideas and the sharing of innovations. Alfonso is creating an Industry Relations webpage. Purpose of webpage is to encourage membership.
- Alfonso will be bringing the finished webpage to the Fall meeting.
- **ACTION ITEM: Alfonso Farina - Send a link to the Industry Relations web page ahead of the meeting so the BoG can digest before the meeting. AI-0462**
- Industry Relations should also think to other major countries. There is competition in the entire world. There are radar companies in China with 45,000 people, none of whom are members of AESS.



Key questions:

- ▶ Which are the **reasons and benefits** to be a member of IEEE AESS for Employees from industries?
- ▶ Which are the **benefits** from Industry view point to be part of the process to form and participate in an IEEE AESS Chapter?

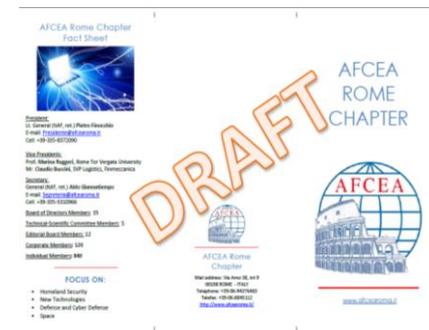
pp. 18

Industry Relations – Alfonso Farina

Alfonso gave an introduction to a number of organizations with whom we can try to form relationships:

- ASD
- AIAD
- Finmeccanica
- Selex ES

Alfonso has developed an Industry Relations website that will be completed by the Fall BoG meeting.



Contribution to Strategic Plan Updates: Sept 2011, April 2013, Jan 2014, Jan 2015

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**IEEE AES Society
Strategic Planning
and
Executive Committee Status**

Orlando, FL
Grand Cypress Hotel

January 30, 2015

Aerospace and Electronic Systems Society 

Alfonso contributed with “Industry Relations Strategic Plan” presentation.

BoG IEEE AESS, Frascati_07-06-2013

- Not attended but contributed to prepare the following presentation, given by Prof S. Greco.



IEEE Division IX for Quality of Life (QoL)

AESS

Aerospace and Electronic
Systems Society
» for Quality of Life

Maria Sabrina Greco, AESS BoG member
Alfonso Farina, VP for industry relations

ESA-ESRIN Frascati, Italy, 7 June 2013

UNIVERSITÀ DI PISA
Selex ES
A Finmeccanica Company

BOG AESS, September 2014

Connecting Industry Partners via AIRW AESS

A. Farina, Selex ES Italy
VP Industry Relations
IEEE AESS BoG
17-19 September 2014
St. Louis, MO



20 Jan 2014

Rome 5th September 2014.

In support to the nomination of Dr. Alfonso Farina as “VP for Industry Relations”

- Record (not exhaustive) of IEEE services:...
- Reviewer and Member of the Technical Committees for Conferences: 2013 -2015
- Record of activities done for the office of VP Industry Relations: ...
- Plans for VP Industry Relations per 2015:...

BOG_AESS, January 2014

Industry Relations

Current status and issues

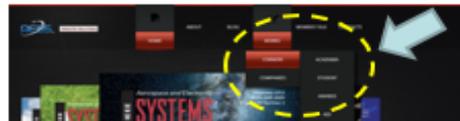
- AESS has an unusually **high proportion of members from Industry** (Dec 2011: 5067 total members, 3079 in industry (60.7%); Jan 2014: 4829 total members, 2963 in industry (61.3%)), so it makes sense for us to treat their interests as a high priority.
- AESS will provide a '**professional web home**' for engineers from Industry where AESS members post best practices, success stories, technical breakthroughs etc. 'News letter' is forwarded on a monthly basis to the HR Top managers, HR Regional managers & CTO of the supporting Industry members. → Indirect marketing for recruitment purposes, serves double purpose by motivating AESS member to post on website.
- Conception and implementation of the "AESS Industry Relations Website" (AIRW)
- **AIRW** will provide a virtual space for: technical idea/opinion exchange, news announcements, recruitment, training, career development of the workforce, promotion of their products and/or services. Hopefully, **AIRW** will help to increase our membership and hence improve and expand our services.

- ✓ Site implemented and installed locally on a PC server of VP IR (php-mysql technology)
- ✓ Responsive template (PC-Tablet-Smartphones)
- ✓ BLOG
- ✓ FAQ – Contacts
- ✓ Online User Manual (ongoing activity)



AIRW Main Features

- ✓ AESS member Talk (forum)
- ✓ Job-Collaborations function
- ✓ ACL: Access Control list system (Users Access Level control)
- ✓ Industries dedicated sections
- ✓ Informative sections (e.g. patents, awards, news, etc. - unlimited number)



Aerospace and Electronic Systems Society



Cincinnati 22,23 May 2014



Selex ES
A Finmeccanica Company

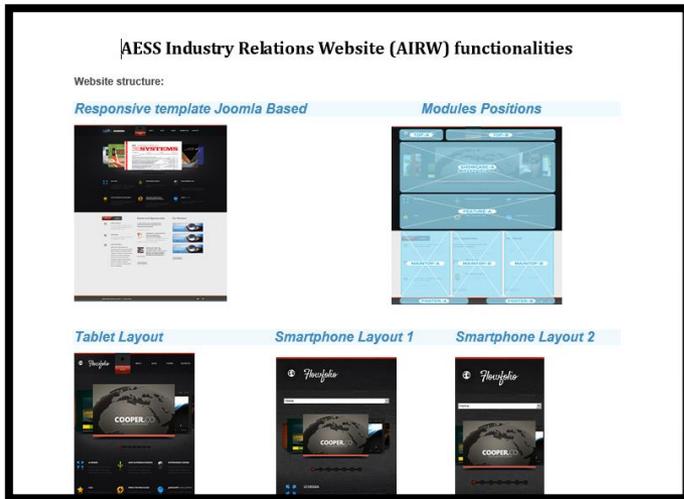
AIRW as an "online Internet company"
A. Farina Selex ES Italy
VP Industry Relations – IEEE AESS BoG

22,23, May 2014, Cincinnati (Ohio, USA)

AESS Industry Relations Website (AIRW) functionalities

Website structure:

- Responsive template Joomla Based
- Modules Positions
- Tablet Layout
- Smartphone Layout 1
- Smartphone Layout 2



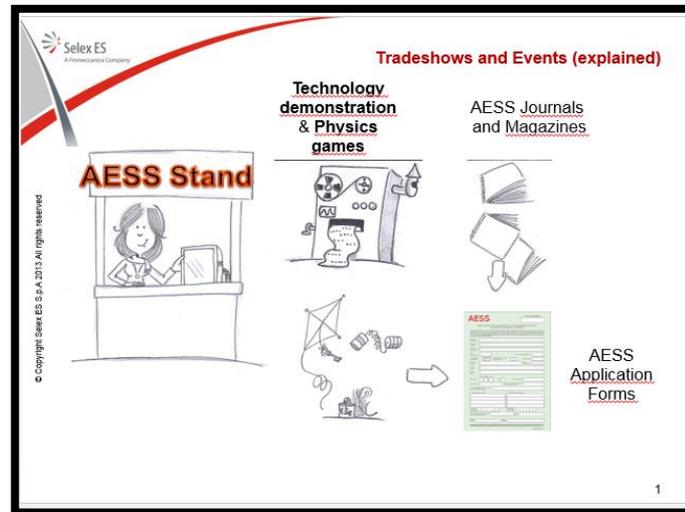
Tradeshows and Events (explained)

Technology demonstration & Physics games

AESS Journals and Magazines

AESS Application Forms

AESS Stand



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IEEE BoG AESS, May 2015

IEEE AESS Officers Strategic Planning Meeting (SPM)

Washington D.C. (USA)
Crystal Gateway Marriott Hotel- May 7, 2015

Dr. Alfonso Farina - VP Industry Relations



IEEE BoG Nov 2015

Web Site Industry Relations

Top 20 A&D Industries (ranked by 2014 rev)

Rank	Company	Home Country	2014 revenue (US\$ million)
1.	The Boeing Company	USA	\$90,762
2.	Airbus Group	France, Germany, Spain	\$80,688
3.	Lockheed Martin	USA	\$45,600
4.	United Technologies Corporation	USA	\$35,805
5.	General Dynamics	USA	\$30,852
6.	BAE Systems	UK	\$25,422
7.	GE Aviation	USA	\$23,990
8.	Northrop Grumman	USA	\$23,979
9.	Raytheon	USA	\$22,826
10.	Safran	France	\$19,994
11.	Honeywell Aerospace	USA	\$15,598
12.	Thales	France	\$15,276
13.	Finmeccanica	Italy	\$14,970
14.	Rolls-Royce	UK	\$14,674
15.	L-3 Communication	USA	\$12,124
16.	Bombardier Aerospace	Canada	\$10,499
17.	Textron	USA	\$10,270
18.	Mitsubishi Heavy Industries Aerospace	Japan	\$9,025
19.	Huntington Ingalls Industries	USA	\$6,957
20.	Spirit AeroSystems	USA	\$6,799



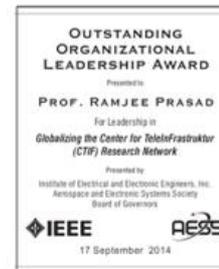
**THE WORLD'S TOP 100
AEROSPACE & DEFENCE
COMPANIES**



2012

Outstanding Leadership Award Chair: 2015-2016

Outstanding Organizational Leadership Award



2014 Leadership Award to Prof. Ramjee Prasad

*"For Organizational Leadership in developing and globalizing the CTIF
(Center for TeleInFrastruktur) Research Network"*

Presented at the 2014 AUTOTEST Conference

17 September 2014

Aerospace & Electronic Systems
Society

Nominator: Prof. Marina Ruggieri



IEEE BoG meeting, April 2016

Technical Operations Strategic Planning

Contributions to Objectives 4 and 6

April 22-23, 2016

Orlando

A. Farina

Member at Large, BoG AESS

Technical Operations Education Coordinator



IEEE BoG meeting, Edinburgh 7-8 October 2016

- In attendance



Additional Activities

Industrial Column of IEEE A&E Systems Magazine:

It is a recent initiative coming as a cooperation with the editor in chief Prof M. Greco to establish it and populate with the following papers:

- A. Farina, R. Fulcoli, M. Patini, L. Timmoneri, C. Becchetti, I. Picciocchi, S. Fernandes, and S. Gallone, "Management of R&D Investment Plan and Product Catalogue in a Modern Defense Systems Company", IEEE A&E Systems Magazine, January 2016, pp. 4-7.
- A. Di Lallo, A. Farina, R. Fulcoli, S. Immediata, E. Tilli, L. Timmoneri, "AULOS®: FINMECCANICA FAMILY OF PASSIVE SENSORS", submit to IEEE Systems Magazine of AESS for the Industry Insight column. Accepted for publication
- A. Farina, A. Sarti, E. Barbi. Z. Burlo, R. Fulcoli, G. Perfetto, I. Picciocchi, L. Timmoneri, "The role of Chief Technology Office (CTO) in a modern defense company", 6 May 2016, under review of the IEEE A&E Systems Magazine

Hystorical Interviews

- A. Farina and L. Spinelli, "A friendly conversation with Princess Elettra Marconi". IEEE A&E SYSTEMS MAGAZINE, Vol. 30, issue 11, November 2015, pp. 29-34.
- F. Gini, "A conversation with friend: Alfonso Farina". IEEE A&E SYSTEMS, Vol. 31, June 2016, pp. 41-49.



Memorials

- A. Farina, H. Griffiths, M. Wicks, “Robert (Bob) T. Hill and the IEEE International Radar Community”, IEEE AES, Systems Magazine, April 2014, pp. 47-49
- A. Farina, “Celebrating the professional life of Professor Emeritus Rudolf Emil KALMAN”. Accepted for publication, IEEE Systems Magazine of AESS, November 2016.

Special Issues and Tutorials

- A. Farina, H. Kuschel, "Guest Editorial. Special issue on Passive Radar (Part I), Special Issue on PCL; IEEE AES Systems Magazine, October 2012, vol. 27, no. 10, p. 5. Including back cover with the photo of AULOS (R).
- A. Farina, H. Kuschel, Co- Editors. Special issue on Passive Radar (Part II), Special Issue on PCL; IEEE AES Systems Magazine, November 2012, vol. 27, no. 11
- K. J. Sangston, A. Farina, "**COHERENT RADAR DETECTION IN COMPOUND-GAUSSIAN CLUTTER: CLAIRVOYANT DETECTORS**", Tutorial Accepted for Publication.



See you in 2018

