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AESS QEB, Issue 16


Quarter 3, 2013

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Society News

Welcome Message
by Hugh Griffiths
AESS President 2012-2013

 hugh_griffiths

Did You Know?

Did you know that AESS is on [LinkedIn](#) and [Facebook](#)? Please join us!

Awards

2013 Warren D. White Award

Congratulations to Dr. Muralidhar Rangaswamy for receiving the 2013 Warren D. White Award for fundamental contributions to Advanced Radar Signal Processing!

2013 Fred Nathanson Memorial Radar Award

Congratulations to Professor Marco Martorella for receiving the 2013 Fred Nathanson Memorial Radar Award and Nathanson Education Grant!

Membership

Summertime (at least in the northern hemisphere) and the living is easy ... The chance to spend more time with family and loved ones, to write that paper or proposal that you'd be meaning to, and to take stock.

AWARDS

As many of you will already know, the IEEE runs a substantial program of awards, medals and prizes. Some of these are at Society level, and some at IEEE level. They recognize outstanding contributions in our profession - over an entire career or at an early stage. The processes are rigorous, requiring detailed nominations and endorsements, and assessment by panels of experts. The AESS Awards Chair is Erv Gangl.

The process relies entirely on nominations. So if you can think of someone whose work has really made a difference and who deserves recognition, please take the trouble to identify the appropriate award and to prepare the nomination. A list of the AES awards, criteria and nomination processes and deadlines can be found at:

<http://www.ieee-aess.org/membership/awards>

Thanks and best wishes,

Congratulations to the newly elevated Senior Members for 2013 thus far:

Paulo Costa, Henry Leung, Francisco Perez Guevara, Eduardo Miramontes Garcia, Majunatha HV Reddy, Anand Gharpure, Antonio Timoszczuk, Piero Angeletti, Keshav Bapat, Raja Boddu, Gopi Bulusu, Gamantyo Hendrantoro, Steven Lein, Nagaraj Shivaramaiah, KoteswaraRao Tatipamula, Yaseen Zaidi, Ayman Asadi, Timothy Gray, Richard Horn, Charles Johnson-Bey, Farinaz Koushanfar, Saurabh Rahul, Gloria Tuquerres, Ronald Twist

Chapter Information

AESS is expanding in the number of active chapters with multiple starts in Regions 8, 9, and 10. While there are multiple [AESS chapters](#), for AESS members without Chapter, we are here to help in [forming a chapter](#). Two actions to maintain existing chapter developments include (1) event planning and (2) mentorship.

Maintaining a chapter can be facilitated by planning an event, hosting a distinguished lecturer, or coordinating a conference. The benefit is networking, content, and engaging discussions. AESS has coordinated on multiple events, conferences, and speakers; so future opportunities and events are driven by the members.

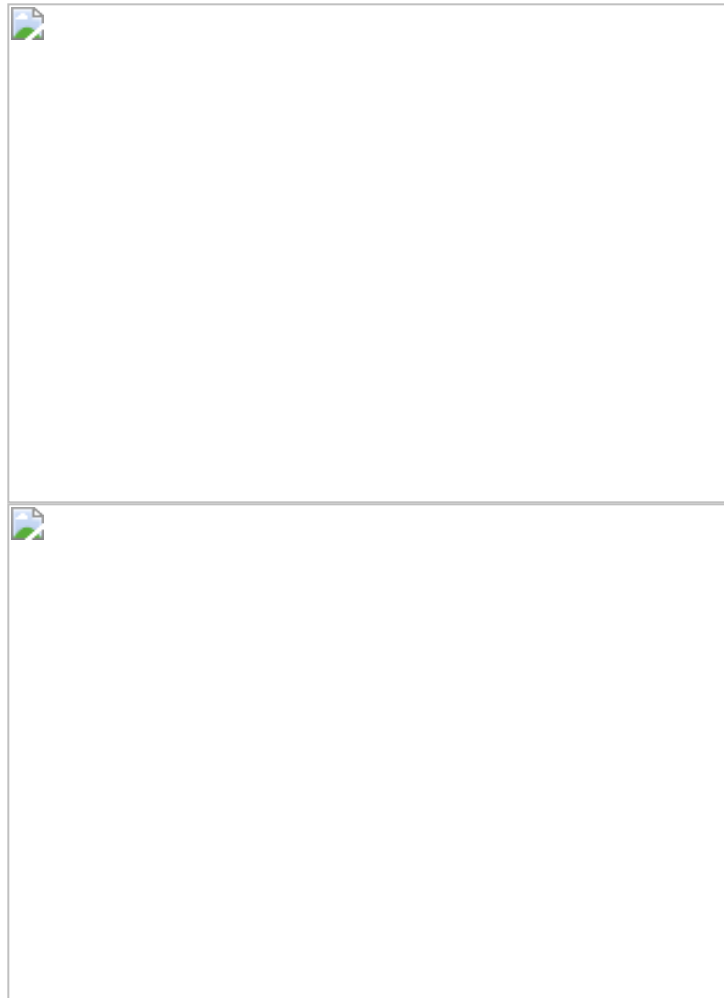
To foster and maintain AESS intra-chapter relationships with that of AESS inter-chapter relationships, we are planning on developing a mentorship program. Students and GOLD members will be matched against experienced people in industry, academics, and government. These discussions are

Hugh Griffiths
AESS President

Hugh Griffiths is awarded the A F Harvey Engineering Research prize!

AESS President, Dr. Hugh Griffiths (University College London) has been awarded the A F Harvey Engineering Research prize. According to the [article](#) announcing the prize, "He was chosen from a number of high calibre candidates from across the world to win the A F Harvey Engineering Research Prize and was chosen due to his outstanding contributions to radar research and his continuing work to make major improvements in bistatic radar and its applications." Professor Andy Hopper, President of the Institution of Engineering and Technology, said: "Our judging panel were presented with some very high calibre candidates, but Professor Griffiths' work shone through. I really hope this prize will help him to continue his ground breaking work with radars."

Below are pictures of Dr. Hugh Griffiths receiving the A F Harvey Engineering Research Prize:



meant to enable new members learn about each other, career paths, and networking as an IEEE AESS member.

Congratulations to the newest Chapters:

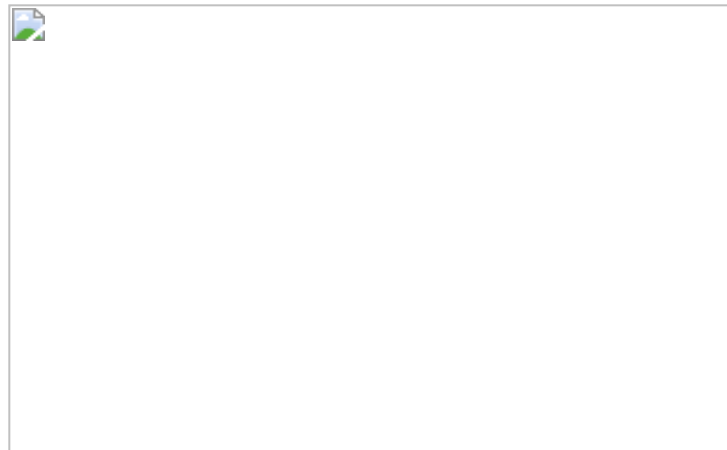
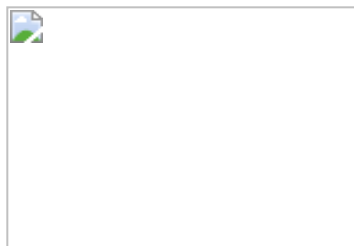
- Guadalajara Section AESS Chapter: Organizer is [Luis Valtierra](#)
- Russia (Siberia) AESS Joint Chapter: Organizer is [Vitaly Suhotin](#)
- Melbourne Section AESS Joint Chapter: Organizer is [William Junek](#)
- Indonesia Section AESS Joint Chapter: Organizer is [Arifin Nugroho](#)
- Singapore Section AESS Joint Chapter: Organizer is [See Kye Yak](#)
- Colombia AESS Chapter: Organizer is [Francisco Vargas](#)

Student Chapters:

- Fundacao Universidade Federal do ABC Aerospace and Electronic Systems Society Student Branch
- Chapter in the South Brazil Section: Organizer is [Eduardo Machado de Franca](#)

AESS Distinguished Lecturer Featured at Orange County Chapter Meeting

The AESS Orange County Chapter had a very successful meeting on June 12, 2013, with an IEEE AESS Distinguished Lecture on Backside Lunar Observatory presented by Dr. Myron Kayton



As a result of receiving this award, Hugh was asked to speak on BBC Radio! The podcast is at this link (Scroll down to the podcast titled "Tornado;Tree health;Vaccine;Radar"):

<http://www.bbc.co.uk/podcasts/series/material/all>

Podcast Description: What is it about Oklahoma's geographical location that causes increased susceptibility to tornadoes? How can residents of 'tornado valley' better protect themselves against these rampant acts of Mother Nature?The Tree Health and Plant Biosecurity Expert Taskforce have just issued their first report with recommendations to combat what they call an "unprecedented threat" from non-native pests and diseases. The Veterinary Medicines Directorate has issued the pharmaceutical company MSD Animal Health a provisional licence to provide the new 'Bovilis SBV' vaccine to UK farmers. They will be the first in the EU to access the vaccine.Professor Hugh Griffiths, the winner of the Institution of Engineering and Technology's A F Harvey Prize, is receiving his prize tonight - £300, 000 to continue his work on bistatic radar and using FM radio waves and TV signals as radar. He joins Quentin Cooper in the studio.

IEEE AESS Society Expense Reporting Process

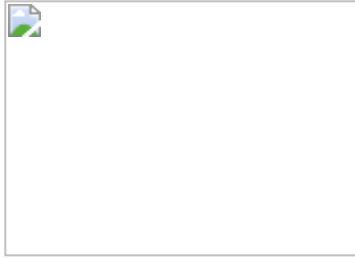
[Click here for more information](#)

[IEEE Expense Reporting Form](#)

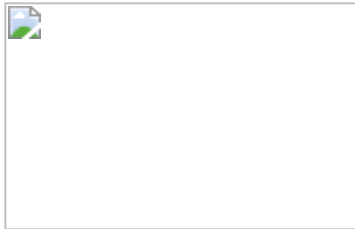
Conference Information

Please go to the [AESS Website](#) to see a full list of upcoming conferences.

Pictured above: Dr. Myron Kayton answers questions during his lecture



Pictured above: A plaque of appreciation was presented to Myron Kayton by Kai-Boy Yu.



Pictured Above: Distinguished Lecturer, Dr. Myron Kayton with the Orange County Chapter

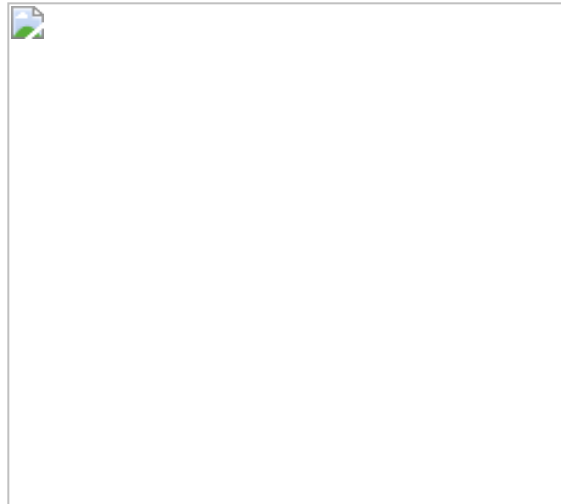
IEEE Division IX Quality of Life

In the framework of IEEE DIVISION IX for Quality of Life meeting, GOLDS had a great opportunity to investigate what the common ground and peculiarities of the 7 GOLD AGs are.

Cosimo Stallo (AESS GOLD Chair) collected the presentations coming from GOLD or Student Chapter Representatives of each Division IX S/C and showed their reports to the attendees.

The contributions were submitted from:

- * Andrea Trucco OES
- * Brendan Morris ITSS
- * Cosimo Stallo AESS
- * Igor Bisio SPS
- * Maurizio Migliaccio GRSS

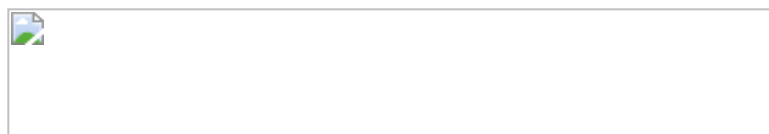


IEEE AUTOTESTCON will be held 16-19 September 2013 in Schaumburg, IL, USA.

IEEE AUTOTESTCON is the United States' largest conference focused on automatic test systems for US military systems, and has been held annually since 1965. The Conference, whose general theme is The Support Systems Technology Conference, is held in varying cities around the US each fall. Administered by a standing Board of Directors, the Conference typically presents over 120-quality application-focused papers with over 250 Exhibits, all focused precisely on the current issues facing military automated test. Attendance ranges between 650 and 750 (paid) attendees, with an additional 1,000 to 1,200 exhibitor and spouse attendees.

The Conference Registration includes admission to Technical Sessions, a copy of the Proceedings (CD ROM), lunch on Tuesday & Wednesday, Exhibit Hall access, Tuesday Exhibitor Reception, and Wednesday Evening Gala ticket.

AUTOTESTCON 2013 will also host a golf tournament that will be held on Monday, September 16 at the beautiful Makray Memorial Golf Course in Barrington, IL. Makray Memorial is a premier 18-hole championship caliber course, just eight miles from the Renaissance Schaumburg Convention Center Hotel. In addition to the cart and range balls, your \$98 fee includes breakfast, on-course beverages, lunch, snacks and soft drinks.



32nd DASC will be held 6-10 October 2013 in Syracuse, NY, USA.

*Matt Lester VTS
*Deniz Gunduz ITS

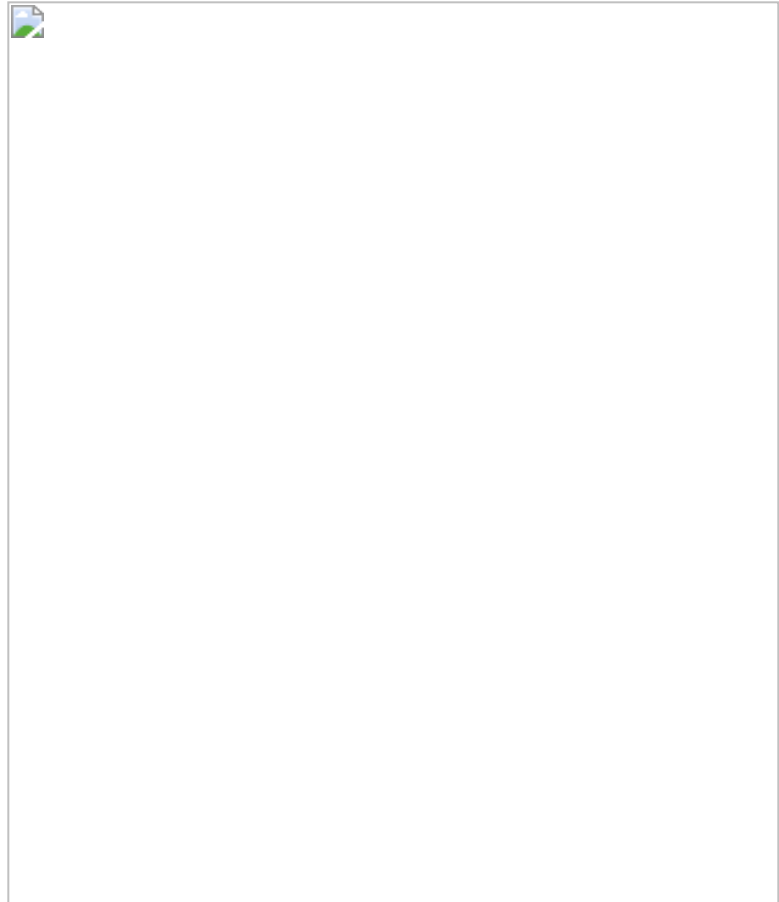
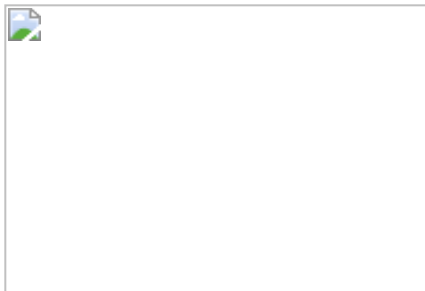
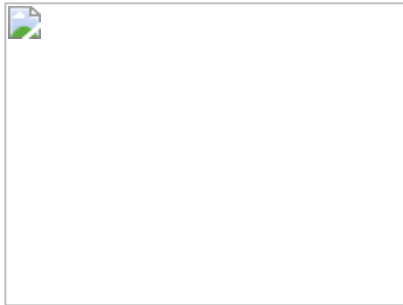
Final Manuscript Submission Deadline:
23 August 2013

All presentations highlighted a lot of potential applications for the Quality of Life concept. The next step is to define, in major details, the common ground of technologies, theoretical and practical tools, as well as applications from each GOLD AG. The final goal is to create the “Division IX GOLD for QoL”.

For more information, visit the website at:

<http://www.dasconline.org/>

Below are some of pictures featured in the various presentations:



2014 IEEE Aerospace Conference will be held 1-7 March 2014 in Big Sky, MT, USA.

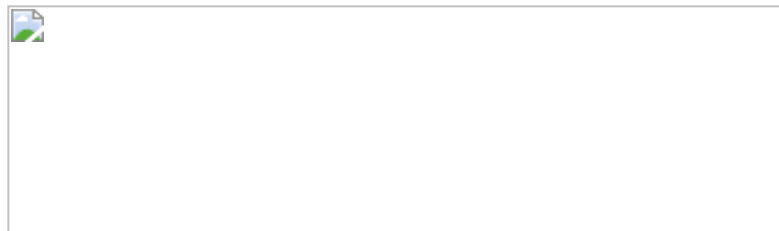
Abstract Submission Deadline:
25 October 2013 ([Call for Papers](#))

For more information, visit the website at:

<http://www.aeroconf.org/>

Aerospace and Electronics Systems Society for Quality of Life

A presentation was prepared by Alfonso Farina and Maria Sabrina Greco and presented by Prof. Greco at the meeting of Division IX of IEEE for Quality of Life. The presentation was on behalf of AESS President Prof. Hugh Griffiths.



It covered the following topics:

- Fields of interest of AESS (complex systems for space, air, ocean and ground),
- Conferences,
- Publications,
- Educational activities, distinguishing lecturer programs, awards, Technical Operations Panels,
- Details on programs for space (Galileo satellite system, CosmoSkimed I and II),
- Air traffic management,
- Maritime traffic monitoring,
- Details on ground systems (Smart Energy, Smart Mobility, Smart & Safe City, Law Enforcement, Indoor and Outdoor Localization),
- Radar for health monitoring,
- Automotive radar,
- Folder of AESS

Education

Distinguished Lecturer & Tutorial Program

All AESS Chapters and IEEE Sections are encouraged to take advantage of the AESS Distinguished Lecturer and Tutorial Program for their regular or special meetings. We have selected an outstanding list of speakers who are experts in their fields. For more information and general guidelines on obtaining a speaker visit the [AESS Distinguished Lecturer and Tutorial Program](#) web page.

2013 Distinguished Lecturers:

Hugh Griffiths
Paul E. Gartz
Mark E. Davis
Myron Kayton
Frederick E. Daum
George T. Schmidt
Larry Chasteen
Saj Durrani

PLANS 2014 will be held 5-8 May 2014 in Monterey, CA, USA.

Abstract Submission Deadline:

1 November 2013

For more information, visit the website at:

<http://www.ion.org/plans/index.cfm>



2014 IEEE RadarCon will be held 19-23 May 2014 in Cincinnati, OH, USA.

Abstract Submission Deadline:

18 October 2013

For more information, visit the website at:

<http://www.radarcon2014.org/>



2014 IEEE NAECON will be held 25-27 June 2014 in Dayton, OH, USA.

For more information, visit the website at:

<http://naecon.org/>

Technical Operations

A Message to Chapter Chairs from VP Technical Operations, Roger Oliva

Surendra Pal
 Yaakov Bar-Shalom
 Eli Brookner
 Erik P. Blasch
 Robert C. Rassa
 Tony Ponsford
 Simon Haykin
 Simon Julier

If you haven't explored our [Educational Video Tutorial System](#) on the AESS website, this would be a good time to do so because we've added several new entries. In addition to the six tutorials listed on that page for AESS members, we have added links to several other sites offering coursework and lectures that may be of interest to our members. Look under [Other Tutorials](#) tab to access them. The Radar Systems Engineering Course is constantly being expanded, and now contains seventeen segments, each with a video lecture and downloadable pdf copies of the slides. Also, we've just added a link to several interesting lectures that were presented at meetings of the Seattle Section.

These links are provided as a service of our members. If you know of others that would interest our members, please let us know by email to [Dr. Joe Fabrizio](#), our VP for Education.

AESS Web Site

As a service to our members, the AESS website has job opportunities listed. Please visit the [AESS website, Job Opportunities](#).

2013 AESS Board of Governors

The AESS Technical Operations are described here: <http://ieee-aess.org/technical-operations/general/welcome-aess-technical-operations-site>. Would you let us know how these Panels may better serve our membership? Is there something missing?

As an example of Chapter endeavors, please take a look at activities that we've pursued at our local Chapter in Washington, DC over the past dozen years and share what you are pursuing with us. You can view these activities by clicking [here](#). Is there something we can do to facilitate what you are doing? Are there any lecturers here that you'd like to have visit your Chapter?

Be advised, our Society Official [Distinguished Lecturer Program](#) is also very active and is highly recommended.

I've found only a few Chapter internet sites. Do you have one? If so, what is it? I wish to also bring your attention to these [Australian](#), [Ukrainian](#) (Section), [Canadian](#), and [Greek](#) Activities.

We serve you by assisting in coordinating technical activities to promote engineering. I am personally supporting the IEEE [Systems Council](#) and USA/IEEE Committee on [Transportation and Aerospace Policy](#) on your behalf.

We hope you're taking a close look at [conferences](#), [tutorials](#), and [publications](#) that are already available to you. If you have ideas regarding Industrial Relations, please drop [Alfonso Farina](#) a line. Are we meeting your needs? What are we missing?

Please pass this e-mail to your Chapter and Section Officers and local AESS membership. We'd appreciate it if you'd collect/condense comments or/and questions and pass them to us so we may best serve them.

Thank you,

Roger Oliva
 VP Technical Operations, AESS Board
roger.oliva@ieee.org
 703-849-8221

Publications

Systems Magazine Archives

Did you know that we have Systems Magazine Archives on the AESS web site? Click [here](#).

2011-2013:
 Erik Blasch
 Larry Chasteen
 Mark Davis
 George Dean
 Robert Ewing
 Alfonso Farina
 Peter Willett

2012-2014:
 Yuri Abramovich
 W. Dale Blair
 Walter Downing
 Joe Fabrizio
 Maria Greco
 Lance Kaplan
 Robert P. Lyons, Jr.
 Teresa Pace

2013-2015:
 Wolfgang Koch
 Kathleen Kramer
 James Leonard
 Leo Lighthart
 Ron Ogan
 Roger Oliva
 George Schmidt
 Iram Weinstein

Upcoming Transactions Posted on the AESS Website

For a listing of Upcoming Transactions, please visit the [AESS website, Upcoming Transactions.](#)

Open Access Policy

In accordance with IEEE policies regarding open access (OA) content, the AES Transactions has become a “hybrid” journal for submissions dated November 1st 2012 or later. This means that authors have the choice between the traditional publication model and an OA model. The former is the familiar procedure in which an accepted article is available on IEEEExplore to subscribers of that service. Under the OA model the author of an accepted manuscript chooses to pay a fee, such that the manuscript is posted on IEEEExplore and available, free, to all. The current OA fee is \$1750 per article, and this figure is independent of manuscript type (regular, correspondence or letter).

New Book Alert



HIGH FREQUENCY OVER-THE-HORIZON RADAR

Giuseppe (Joe) Fabrizio, Ph.D.

ISBN13: 9780071621274

ISBN10: 007162127X

Division: McGraw-Hill Professional Publishing

Pub Date: JUN-13

Pages: 944

Format: Hardcover (also available as e-

book)

Audience: College/higher education, General/trade, Professional and scholarly

THE MOST COMPLETE GUIDE TO HIGH FREQUENCY OVER-THE-HORIZON RADAR

Written by a leading global expert on the topic, High Frequency Over-the-Horizon Radar provides in-depth coverage of the signal processing models and techniques that have significantly advanced OTH radar technology. This pioneering work describes the fundamental principles of OTH radar design and operation, and then delves into the mathematical modeling of HF signals received by actual OTH radar systems based on experimental data analysis. Numerous examples illustrate the practical application of modern adaptive signal processing techniques to real and simulated OTH radar data. This authoritative text covers skywave and surface-wave systems and is an invaluable resource for researchers, engineers, and practitioners working with OTH radar systems and technologies.

<http://www.mcgraw-hill.com.au/html/9780071621274.html>

To submit new articles, please send an email with your article to AESS QEB Editor, [Cosimo Stallo](#), subject line: "Quarterly Email Blast Article Submission". The next publication will be in Quarter 4, 2013, deadline for submission is September 20, 2013.