

Editors

Editor-in-Chief—*Teresa L. Pace*
Associate Editor-in-Chief—*W. Dale Blair*
Associate Editor-in-Chief—*Maria Greco*
Administrative Editor—*William P. Walsh*
Ass't. Admin. Editor—*Susanne J. Walsh*
Editorial Consultant—*David B. Dobson*
VP Publications—*Peter K. Willett*
AESS President—*Robert P. Lyons, Jr.*
Executive Assistant, AESS
—*Judy Scharmann*

Contributing Editors

Awards—*Erwin C. Gangl*
Book Reviews Editor—*Darin Dunham*
Conferences—*Iram Weinstein*
Distinguished Lecturers &
Tutorials—*Giuseppe A. Fabrizio*
Education—*Giuseppe A. Fabrizio*
History—*James Leonard*
Standards—*Richard Hochberg*
Student Research—*Richard Coogler,*
John Glass
Technical Panels—*Roger Oliva*
Tutorials Editor—*Braham Hined*
Website Updates—*Judy Scharmann*

Associate Editors and Areas of Specialty

Scott Bawden—*Maritime, Energy,*
Position, Navigation, Timing
Erik Blasch—*Recognition, Tracking,*
Sensor & Assessments
Shirley Cheng—*Guidance, Distributed*
Sensors, Fusion, Biometric
David Crouse—*Sensors, Electro-Optics,*
Radar
Mauro De Sanctis—*Space*
Communications and Electronics
Carlos Fernandez-Prades—*Position,*
Navigation, Timing
Maria Greco—*Clutter Models, Radar,*
Signal Processing, Radar Systems
Moriba Jah—*Astronautics, aeronautics*
Haiying Liu—*Fusion, Image Processing,*
Tracking
Ruhai Wang—*Systems Engineering*
Peter Willett—*Tracking, Fusion,*
Signal Processing

How to Reach Us

We welcome letters to the editor; but, we reserve the right to edit for space, style, and clarity. Include address and daytime phone number with your correspondence.

Email: sjwalsh4@gmail.com
wpwalsh7@gmail.com



April 2014

ISSN 0885-8985

Volume 29 Number 4

COLUMNS

In This Issue – Technically	2
From the Editor-in-Chief	3

ARTICLES

Active CO₂ Two-Phase Loops for the AMS-02 Tracker <i>G. Alberti, A. Alvino, G. Ambrosi, M. Bardet, R. Battiston, S. Borsini,</i> <i>J. F. Cao, Y. Chen, J. van Es, C. Gargiulo, K. H. Guo, L. Guo, Z. H. He,</i> <i>Z. C. Huang, V. Koutsenko, E. Laudi, A. Lebedev, S. C. Lee, T. X. Li, Y.</i> <i>L. Lin, S. S. Lv, M. Menichelli, J. Y. Miao, D. C. Mo, J. Q. Ni, A. Pauw,</i> <i>X. M. Qi, G. M. Shue, D. J. Sun, X. H. Sun, C. P. Tang, B. Verlaat, Z.</i> <i>X. Wang, Z. L. Weng, W. J. Xiao, N. S. Xu, F. K. Yang, C. C. Yeh, Z.</i> <i>Zhang, T. Zwartbol</i>	4
The Würzburg Radar Equipment from the Bruneval Raid <i>H. Griffiths</i>	14
Optimal Attitude and Position Determination by Integration of INS, Star Tracker, and Horizon Sensor <i>A. Moghtadaei Rad, J. Heyrani Nobari, A. A. Nikkhah</i>	20
Mobile Positioning via Fusion of Mixed Signals of Opportunity <i>C. Yang, T. Nguyen, E. Blasch</i>	34

NEWS AND INFORMATION

Robert (Bob) T. Hill and the IEEE International Radar Community <i>A. Farina, H. Griffiths, M. Wicks</i>	47
Directory of IEEE-AESS Personnel	50
2014 Distinguished Lecturers & Tutorials	51
IEEE-AESS Organization 2014	52
Meetings and Conferences	Inside back cover