



OCEANIC ENGINEERING SOCIETY

Newsletter



VOLUME XXXVI

NUMBER 2

EDITOR: FREDERICK H. MALTZ

SPRING 2001

(USPS 420-910) ISSN 0746-7834

MTS/IEEE Oceans 2001 Conference & Exhibition

November 5-8, 2001

Hilton Hawaiian Village, Honolulu, HI



IEEE OCEANIC ENGINEERING SOCIETY

President

THOMAS F. WIENER
2403 Lisbon Lane
Alexandria, VA 22306-2516
+1 703 516 7363
+1 703 516 7360 (FAX)
twiener@darpa.mil

Newsletter Editor

FREDERICK H. MALTZ
1760 Larkellen Lane
Los Altos, CA 94024
+1 650 967 5092
+1 650 969 6390 (FAX)
f.maltz@ieeec.org

Vice President

Technical Activities
JOSEPH R. VADUS
Global Ocean Inc.
8500 Timber Hill
Potomac, Maryland 20854
+1 301 299 5477
+1 301 983 4825 (FAX)
jvadus@erols.com

IEEE Newsletter Coordinator

ANDREA WATSON
445 Hoes Lane
Piscataway, NJ 08855-1331
+1 732 562 6345
+1 732 981 1855 (FAX)
a.watson@ieeec.org

Vice President,

Professional Activities
NORMAN D. MILLER, P.E.
2644 NW Esplanade Drive
Seattle, WA 98117-2527
+1 206 784 7154
+1 206 784 0478 (FAX)
colmiller@home.com

Journal of Oceanic Engineering Editor

JAMES F. LYNCH
Oceans Physics and Engineering
203 Bigelow Building
Woods Hole Oceanographic Institution
Woods Hole, MA 02543
+1 508 457 2000 x2230
jlynch@whoi.edu

Vice President,

International Activities
VACANT

Secretary

STEPHEN M. HOLT
11950 Grey Squirrel Lane
Reston, VA 20194
+1 703 610 2000
sholt@mitretek.org

Treasurer

JAMES T. BARBERA
13513 Crispin Way
Rockville, MD 20853
+1 301 360-4347
+1 301 871 3907 (FAX)
j.barbera@ieeec.org

Web Master

ERIC NELSON
Celion Networks, Inc.
3101 E. Pres. George Bush
Freeway, Suite 250
Richardson, TX 75082-3538
+1 972 907 2283
eric.nelson@celion.com

OES Journal Associate Editors

ARTHUR B. BAGGEROER
Dept. Ocean Eng.-Rm. 5-204
Mass. Inst. Technol.
Cambridge, MA 02139
+1 617 253 4336
abb@arctic.mit.edu

D. RICHARD BLIDBERG
Autonomous Undersea
Systems Institute
86 Old Concord Turnpike
Lee, NH 03924
+1 603 868 3221
Fax: +1 603 868 3283
blidberg@ausi.org

PETER H. DAHL
Applied Physics Lab,
Univ. of Washington
1013 N.E. 40th Street
Seattle, WA 98105
+1 206 543 2667
dahlt@apl.washington.edu

WILLIAM M. CAREY
The Kerry Group LLC
79 Whippoorwill Rd.,
Old Lyme, CT 06371
+1 860 434 6394
kerrygtp@ctol.net

CHRISTIAN DE MOUSTIER
Marine Physical Lab,
Scripps Inst. of Oceanography
La Jolla, CA 92093
+1 619 534 6322
cpm@mpl.ucsd.edu

GEOFF EDELSON
Sanders
Advanced Systems Directorate
MAN6-2000
P. O. Box 868
Nashua, NH 03061-0868
+1 603 645 5735
Fax: +1 603 645 5731
edelson@sanders.com

JOHN E. EHRENBERG
Boeing Defense and Space Group
P. O. Box 3999
MS 84-41
Seattle, WA 98124-2499
+1 206 773 1442
ehrejexoo@ccmail.boeing.com

DAVID M. FARMER
Institute of Ocean Sciences
P. O. Box 6000, 9860 West Saanich Rd.
Sidney, BC V81 4B2 Canada
+1 250 363 6591
Fax: +1 250 363 6798
dmf@ios.bc.ca

RENE GARELLO
Telecom Bretagne
Dpt. ITI BP 832
29285 Brest Cedex France
33 2 98 00 13 71
Fax: 33 2 98 00 10 98
rene.garello@enst-bretagne.fr

MALCOLM L. HERON
Physics Dept.
Jams Cook Univ.
Townsville, Queensland 4811
Australia
61 77 81 4127

DAVID P. KNOBLES
EVG
Applied Research Labs.
Univ. of Texas at Austin
P.O. Box 8029
Austin, TX 78713-8029
+1 512 835 3687
knobles@arl.utexas.edu

JOHN J. LEONARD
Ocean Engineering Department
Room 5-422
Mass. Inst. Technol.
77 Massachusetts Ave.
Cambridge, MA 02139
+1 617 253 5305
Fax: +1 617 253 8125
jleonard@mit.edu

TAMAKI URA
Underwater Technology Research Center
Institute of Industrial Science
University of Tokyo
4-6-1, Komaba
Meguro, Tokyo 153-8505 Japan
+81-3-5452-6487
ura@iis.u-tokyo.ac.jp

HISAAKI MAEDA
Institute of Industrial Science
University of Tokyo
7-22-1, Roppongi, Minatoku
Tokyo 106, Japan
81 3 3402 6231 X2255
Fax: 81 3 3402 5349
maedah@iis.u-tokyo.ac.jp

ARYE NEHORAI
Dept. Elect. Eng. and Computer Sci.
Univ. of Illinois at Chicago

851 S. Morgan St.,
Rm. 1120 SEO
Chicago, IL 60607-7053
+1 312 996 2778
Fax: +1 312 413 0024
nehorai@eecs.uic.edu

JOHN D. PENROSE
Centre for Marine Science and
Technology
Curtin Univ, Kent SL Bentley,
Western Australia 6102
Australia 61 9351 7380
tpenrosej@cc.curtin.edu.au

JOHN POTTER
Head, Acoustic Research Laboratory
TMSI and Elect. Eng. Dept.
National Univ. of Singapore
10 Kent Ridge Crescent
Singapore 117596
Fax: 65 874 2129
Fax: 65 874 8325
johnp@arl.nus.edu.sg

ROBERT C. SPINDEL
Applied Physics Lab.
Univ. of Washington
1013 N.E. 40th St.
Seattle, WA 98105
+1 206 543 1310
spindel@apl.washington.edu

RICHARD STERN
Applied Research Lab.
Penn State Univ.
P. O. Box 30
State College, PA 16804
+1 814 865 6344
rs@arl.vax.arl.psu.edu

ARTHUR B. BAGGEROER
Arctic/Antarctic Oceanic
Engineering, Information and Processing
of Acoustic and Electromagnetic
Phenomena

D. RICHARD BLIDBERG
JOHN J. LEONARD
AUV's, ROV's, Autonomous Systems,
Unmanned Vehicles, Intelligent Systems,
and High Level Control

WILLIAM H. CAREY, *Editor Emeritus*
Acoustic Propagation and Scattering,
Signal Processing

CHRISTIAN DE MOUSTIER
Bathymetry, Surveys, Mapping, Remote
Sensing, and Sonar Image Processing

GEOFF EDELSON
Array Processing: High Resolution,
Matched Field, Model Based Measurement
Arrays, Sonar Processing

JOHN E. EHRENBERG
Acoustic Simulation and Sensors.

DAVID M. FARMER
Instrumentation, Acoustical Oceanogra-
phy, Air-Sea Interaction, Turbulence.

RENE GARELLO
Regional Editor France and Europe

MALCOLM L. HERON
*Regional Editor South America, Australia
and Africa*
Remote Sensing; Radar; Waves; Currents;
Air-Sea Interaction

DAVID P. KNOBLES
Seismo Acoustics, Seafloor Geophysics,
Seismology, Propagation, Scattering, Sig-
nal Processing, Interface Waves

HISAAKI MAEDA
Regional Editor for Japan and Asia
Marine Hydrodynamics, Dynamics of
Floating Structures, Underwater Vehicles
Ocean Energy Utilization

ARYE NEHORAI
Array Processing; Statistical Analysis;
Detection; Estimation

JOHN D. PENROSE
Regional Editor Western Australia

JOHN POTTER
Regional Editor Southeast Asia
Ocean Acoustics, Marine Mammal
Acoustics

DANIEL RAMSDALE
Book Reviews

ROBERT C. SPINDEL
PETER DAHL
Acoustic Communication, Navigation and
Telemetry; Acoustic Tomography; Acous-
tic Remote Sensing; Underwater Optics

RICHARD STERN
Engineering Acoustics: Equipment and
Devices, Instrumentation, Materials,
Measurement Techniques

continued on back cover...

IEEE Oceanic Engineering Society Newsletter is published quarterly by the Oceanic Engineering Society of the Institute of Electrical and Electronics Engineers, Inc. Headquarters: 3 Park Avenue, 17th Floor, NY 10017-2394. \$1.00 per member per year (included in Society fee) for each member of the Oceanic Engineering Society. Printed in U.S.A. Periodicals postage paid at New York, NY and at additional mailing offices. Postmaster: Send address changes to IEEE OCEANIC ENGINEERING SOCIETY NEWSLETTER, IEEE, 445 Hoes Lane, Piscataway, NJ 08854

Table of Contents

| | |
|---|----|
| <i>Message from the President</i> | 4 |
| <i>Soundings</i> | 5 |
| <i>OES Ex-Com Meeting</i> | 5 |
| <i>Message from the Vice President, Professional Activities</i> | 6 |
| <i>From the Editor</i> | 7 |
| <i>Nominations for Awards</i> | 7 |
| <i>Who's Who in the OES</i> | 8 |
| <i>Dan Jerry Ramsdale 1942-2000</i> | 9 |
| <i>News Items</i> | 10 |
| <i>Upcoming Conferences</i> | 12 |

The new, enhanced IEEE Spectrum Online

The IEEE members' source for science and technology news!

IEEE

IEEE SPECTRUM Online

The *IEEE Spectrum* website has been completely **Re-designed and enhanced** to provide content beyond what is available in print. Now, *IEEE Spectrum Online* is delivering additional member benefits electronically.

- ▶ **Daily Science and Technology News** - from Reuters International news service
- ▶ **Weekly Websights** - reports of science and technology communities
- ▶ **Weekly Newslog** - technological events from the prior week
- ▶ **This Week in Electrical History** - historical landmarks and links for more information

Go one step beyond *IEEE Spectrum's* award-winning print magazine!
Visit www.spectrum.ieee.org today!

President's Message

I find it interesting that we form clubs, associations, and societies to further some particular activity. In the IEEE and the OES, that activity is the development and sharing of professional knowledge. For this to happen, we need to have members of the group agree to take on administrative tasks so that we can realize the primary purpose of the group. For the IEEE and our OES, those activities are accomplished by the Administrative Committee as our governing body, and by other committees appointed for special purposes. Each of us should appreciate the substantial amount of volunteer labor that goes on in our society and should thank those who make possible achieving our primary purposes.

That thought came to me as I prepare to describe a Committee I have appointed to address one of our major enterprises, that of organizing and presenting conferences.

As I noted in my previous message to the Society, conference management is perhaps the most important of the activities where I see an opportunity to improve our management of the process to achieve a richer technical content along with the realization of a larger surplus to support our other activities.

Conference income is the major component of the Society's income. I intend to develop management policies and procedures that will assure the continued success of our conferences and the integrity of the income stream. Of course, one doesn't do this alone. I have appointed a Conference Policy Committee to conduct a thorough review of our policies, plans, and practices as we conduct our conferences. The Chair is Rene Garelo; the other members are Bob Bannon, Claude Brancart, Stan Chamberlain, and Hisaaki Maeda. The Committee will report to Joe Vadus, the Vice President for Technical Activities.

Here is the Charter:

Objective: Develop policy, guidelines, and framework for annual and biennial conferences sponsored by IEEE/OES. Candidate Conferences include:

OCEANS, CMT, UT, AUV Other conferences - new; existing; joint or technical only sponsorship (e.g., IGARSS)

Note: Continued MTS participation is a prime consideration to enable continued stability and growth in this competitive environment.

Issue #1: Conference Guidelines

The MTS/OES OCEANS Conference Guidelines are a starting point. Given the problems that have arisen over the past several years and are continuing into 2004 at least, do we need to tighten up or amend the guidelines to give more control and authority to the Societies, or should we ease our control to provide incentive for the local committee to take most of the responsibility?

What steps should we take to institutionalize procedures that will assure IEEE/OES-sponsored conferences and symposia have a high quality technical program?



Thomas F. Wiener

What steps should be taken to ensure competition for site sponsorship as we experienced for OCEANS 2004?

Comment: Clearly one proposer was greatly disappointed not to have been chosen. What should we do to encourage proposers that we do not choose for that particular year?

Issue #2: Multiple Conferences

We need to address ways to sponsor two OCEANS-like conferences per year, along with other symposia. What are OES capabilities to handle multiple conferences? What are the policy recommendations? We also need to make explicit policies and practices for smaller symposia like AUV and CMT and UT?

Comment: If we accept only technical sponsorship at another conference, what responsibilities have we accepted? How do we gain financially? How does technical sponsorship papers and attendance take away from our flagship and other regularly scheduled conferences/symposia?

Issue #3: Conference Benefits

What steps should we take to assure IEEE/OES-sponsored conferences and symposia realize a better surplus? Comment: The key to a good surplus seems to be: A substantial Quality Program, attraction of many exhibitors, a desirable venue and spending frugally; setting goals and managing to achieve them is the key. The latter consideration does not mean to be cheap; it does mean that spending should be careful. How can this be done? What should OES policy be?

What additional steps should we take so that IEEE/OES-sponsored conferences and symposia provide excellent opportunities for networking, other informal exchanges and business opportunities?

Issue #4: Conference Regional Support

How do Chapters/membership facilitate or impact the conduct of OES sponsored conferences? What is the historical perception? Can a conference in a selected venue build a local chapter and membership? Has it done so? What needs to be done? What should OES policy be not only with respect to chapter building in connection with conferences but also with respect to sharing surplus?

Preparations for OCEANS 2001 in Hawaii are moving ahead with full vigor. I'm looking forward to an excellent conference with friends and colleagues presenting important papers, and, by the way, the volunteers who make the conferences work and the Society go, will be getting together to do what it takes to keep these good things happening.

Please join us. For those of us in northern latitudes, November in Hawaii will be a delightful change from the weather at home. I look forward to seeing you there.

Thomas F. Wiener

Soundings

Welcome to the first installment of the new “Soundings” column. This column reports on Ocean Engineering news as it appears in the mainstream media. The purpose of this column is to inform the ocean engineering community of our impact in the media while giving us insight into how our industry is perceived by the general public.

The Dec. 11, 2000 issue of Business Week (http://www.businessweek.com/bwdaily/dnflash/dec2000/nf20001211_136.htm) reported on Leslie Kay’s KASPRA device which uses CTFM sonar (in air) to provide spatial awareness for blind people. Kay’s first generation product for the blind was introduced in the 70’s with limited success. Improvements in technology and refinement in his design has produced this latest aid. The KASPRA unit maps range into pitch and provides the user with stereo audio feedback. Different target structures (e.g., leaves on a tree) provide a modulation of the tone which allows a user to perform limited classification.

The historic raising of the Confederate submarine “Hunley” generated widespread interest in underwater archaeology, salvage operations, and the use of underwater technology. While covered in a wide variety of media, the Hunley project also has an excellent website (<http://www.hunley.org>) which provides a wealth of information on the recovery effort.



John Irza

In the January 26 2001 issue of Science writer David Malakoff discusses “A Roaring Debate Over Ocean Noise.” Malakoff reviews continuing concerns for possible negative effects on ocean life from Low Frequency Active (LFA) sonars being introduced by the U.S. Navy.

De-commissioned vessels acting as artificial reefs may get a boost from recent studies which indicate that increased levels of iron enhance the growth of plankton which in turn feeds other consumers higher in the foodchain. Although plankton is known to soak up carbon dioxide, one of the “greenhouse gasses” contributing to global warming, large scale seeding of the oceans (far beyond the scale of artificial reefs) needs to be approached cautiously, warns Sallie Chisolm, an environmental engineer and biologist at the Massachusetts Institute of Technology.

For more information see <http://www-personal.umich.edu/~rstey/Site%20files/presentation.html>

If you see an article (whether in print or in electronic form) that you would like to see mentioned in this column, please let me know by email, fax, phone, or regular mail. Email contributions can be sent to a special address: Soundings@Sygnus.Com. Information for phone, fax, and regular correspondence can be found in the back of newsletter where I am listed in the AdCom section.

John Irza

OES Ex-Com Meeting

Albuquerque, New Mexico

17–18 February



Thomas Wiener, OES President.



L to R: Glen Williams, Jim Lynch, Jim Barbera, Claude Brancart, Stan Chamberlain, Norman Miller, and Thomas Wiener. Joe Vadus and Steve Holt (not pictured) were also at the meeting.

Message from the Vice President, Professional Activities

The Status of the Society

The Executive Committee of the Oceanic Engineering Society held a meeting in Albuquerque over the President's Day weekend. It was a rather appropriate time as this was also the beginning of National Engineer's Week. As I was introduced I wished them all a "Happy Engineers Week" and received several blank stares. This led to a discussion on the value of belonging to Professional Societies and how this was a mark of recognition as an engineer. Did you do anything special during National Engineers Week? Did any of your non-engineering associates congratulate you on being an engineer? Are you proud of being an engineer? Certainly being a member of IEEE and OES says something about you and the fact that you do value the association with other professionals in your field.

During the course of the meeting we touched on several items critical to the life of the Society. The one topic that is always of concern is membership. OES is the smallest of the societies in IEEE. While IEEE in general had a banner year in membership growth in 2000, our society actually lost members. During the past several years we have had special membership promotions at our conferences and have encouraged non-members to become members. While many took advantage of our subsidy to join, they dropped out after the first year of membership. We have asked the membership several times to give us feedback on what they like about the society and what they dislike. Why did you join OES? What are the benefits to you of your membership? We would appreciate your comments. It is ironic that while we are the smallest of the societies, we are one of the most active in terms of our publications and conferences. Financially we are strong and we use our assets wisely to benefit the members.

Another area of concern that also relates to membership is Chapter Development. At the present time we have eight active chapters. We have three chapters in the United States, two in Canada, and one each in France, Norway, and Japan. The Chapters in Canada, Norway, and Japan are located in University communities and the membership base is faculty from the universities. The Chapter in France has several sub-chapters with the largest being in Brest. There is a chapter in Halifax Nova Scotia and Victoria British Columbia. Both are active and have had distinguished programs throughout the year. We activated the Chapter in San Diego last year and it has held several very interesting meetings



Norman D. Miller

with guest speakers and programs from Orincon. The Seattle Chapter cosponsors meeting with the Puget Sound Section of the Marine Technology Society and hold monthly meetings from September through May each year. We are now in the process of forming a chapter in the Boston area and hope to have it active during the year. Chapters can be a base for membership growth and also stimulate interest for membership retention. We are also exploring the establishment of chapters in conjunction with the Geoscience and Remote Sensing Society and the Signal Processing Society as we have kindred interests.

Along with membership growth and activity we also need to up-grade our membership. We have many members in the Member Grade that are eligible to be Senior Members. The process for becoming a Senior Member has been streamlined and we encourage all members to seriously consider gaining the recognition of being a Senior Member by apply for it. For information on upgrading your membership, please contact our Membership Coordinator, Dr. James Collins at j.s.collins@ieee.org.

One of the projects that the Society began was the archiving of all of our Journals and Conference Proceedings in digital form. This project is about completed and the ExCom approved the final package and authorized the production of 1000 set of the CD-ROMs and DVDs which will utilize the Deja Vu format technology. These will be available to the membership at a special members price later on this year. This is a remarkable achievement and contains all of the OES Journals and Conference Proceedings from 1970 on through 2000. You will hear more about this when the discs are available.

2001 promises to be another good year for the Society. Plans are well underway for OCEANS 2001 MTS/IEEE in Hawaii from November 5-8, 2001. The Conference will be at the Hawaiian Hilton Village. This is a perfect venue for an OCEANS conference and we hope that you will make plans to attend.

We really would like to hear from the membership about their likes and dislikes of the Society. Please feel free to contact me at n.miller@ieee.org and let me know what we can do to make your membership in the Society of more value to you!

Norman D. Miller, P.E.
Vice President Professional Activities

From the Editor

For our new members who may not know, the IEEE -Technical Activities Board (IEEE-TAB) is our administrative link to the IEEE Technical Activities Department. The newly elected chair of TAB is Lewis M. Terman of the IBM Watson Research Center in Yorktown Heights, NY. TAB also has four additional chairs as relate to conducting society business in the area of Meetings, Periodicals and Strategic Planning And Review processes. TAB has one additional committee chair, namely Products which provides members with such useful items as IEEE Xplore as a good example.

To give you some idea of the aims of TAB, currently, as requested by the TAB Strategic Planning and Review Committee, TAB approved revisions to TAB Bylaw T-201 - TAB Mission and TAB Bylaw T-202 -TAB Vision, for recommendation for approval by the IEEE Board of Directors which is excerpted as follows:

TAB Mission:

To foster technological innovation and progress by advancing the technical activities of the IEEE for the benefit of the profession and humanity worldwide, and to represent the interests of Societies and Technical Councils within the IEEE.

TAB Vision:

The Technical Activities Board

- Stimulates, promotes, facilitates and supports a global volunteer organization of innovative and agile technical communities.
- Uses the best technologies to attract, access and disseminate technical information which leads to... IEEE Technical Activities, which provides
- the first place people go for the highest quality technical information
- acceleration and nurturing of innovation
- the technical professional's lifelong network of choice

As an illustration of some of the development efforts of TAB, the following are a few excerpts of activities now in progress:

1. As requested by the TAB Products Committee, TAB approved that previously established deadlines for the

conversion of all conference proceedings to full text PDF be extended. New dates are to be set at the June 2001 EPSC meeting. A project team has been created to develop a project plan for the transition to fully-electronic conference proceedings. The plan will establish a clear path for managing the transition process to achieve this important goal and will include key milestone dates, which will be socialized at the June 2001 meeting series.

2. As requested by the TAB Products Committee, TAB approved that the deadline for full compliance of periodicals to IEEE Xplore standards be extended to 1 December 2001. Additional support, guidelines and tools will be provided to aid in achieving compliance. All other elements of the initial TAB approved motion remain unchanged.
3. TAB approved that the Chair of the TAB Products Committee have the ability to, for this year only, expand the membership of the TAB Periodicals Packages Committee (PPC), to up to six members (including the Chair). The expanded committee will consider the revenue distribution formulas of IEL and ASPP in light of the changing business environment. Recommendations will be reported to TAB in November 2001.
4. As requested by the TAB Products Committee, TAB approved the development of long-range business plans for all IEEE intellectual property, with participation from the TAB Periodicals Committee, Publications, Products and Services Board (P2SB), and the IEEE Meetings and Services Committee. There is a need to have a long-term vision in place for all IEEE intellectual property to aid in the introduction of new products, as well as to improve the management of existing ones. Among other things, this would help to better understand the impact that any individual product has on the overall business.

For those of you who have not already made full use of these and/or similar products of IEEE-TAB, and want to learn more, a good place to start is the IEEE homepage <http://www.ieee.org>. If you have anything you would like to relate or comment on, your inputs are always welcome.

Fred Maltz

Nominations for Awards

Each year the Society recognizes the accomplishments of members in the presentation of two awards during the annual Awards Luncheon at the OCEANS Conference. OES has two awards, the Distinguished Service Award and the Distinguished Technical Achievement Award. The Distinguished Service Award is given to honor an individual IEEE member for outstanding contributions towards furthering the objectives of the Oceanic Engineering Society.

The Distinguished Technical Achievement Award is given to honor an outstanding technical contribution to oceanic engineering in either the fundamental or applied areas. The recipient need not be a Society or IEEE member and the award shall be for either a single major invention or scientific contribution or for a distinguished series of contributions over a period of time.

Who's Who in the OES

Robert T. Bannon is the founder and president of Bannon International Consulting which provides international and domestic business, engineering, and program management service solutions to fiber optic telecommunications and multinational emerging technologies markets. Bannon International provides total project evolution design and implementation management for special programs integration. Mr. Bannon specializes in directing global fiber optic network strategic planning, utilizing unique technologies, and program management for underwater telecommunications applications and emerging high bandwidth Internet protocol integration.

Mr. Bannon has over thirty-three years of experience in the development of program, business, and IR&D management for global telecommunications, underwater fiber optic systems and new technology computer ventures. He is a professional with successful multinational consortium negotiation and facilitation expertise. Mr. Bannon has demonstrated competency in long range planning and program management for domestic and international companies offering fiber optic communications and emerging technologies services. Mr. Bannon has a strong background in program management and implementing custom solutions for multimillion dollar commercial business lines and government programs.

As a District Manager at AT&T (Submarine Systems and Bell Labs), Mr. Bannon was responsible for International Systems Maintenance for Trans-Atlantic and Trans-Pacific Cable Systems. His responsibilities included the design and operation of the Submersible Craft Assisting in Repair and Burial (SCARAB) ROVs, which locate, de-trench, retrieve, and retroburies underwater cables. He formulated advanced underwater insertion technology solutions. Mr. Bannon was also involved in AUV and SAUV design. His responsibilities included



Robert T. Bannon

the program development of the Enhanced Bottom Sonar System (EBSS), for the location, identification, and tracking of buried cables and other artifacts. His work resulted in three patent applications for specialized systems. In 1999-2000, Mr. Bannon designed the leading edge Craft for Repair And Burial of Submarine Systems (CRABSS), which is a 500-hp. free-flying ROV, capable of maneuvering in 6-knot current and burial in 150 kPa soil. Mr. Bannon serves as a lead scientist for a major defense contractor (General Dynamics ATS), and consults for multiple commercial ROV and telecommunications companies. As Program Director, Mr. Bannon selected and managed IR&D projects that integrated complex hardware, i.e., video/graphic systems, touch-screen vehicle control systems and sonar, and state-of-the-art undersea solutions related to advanced fiber optic communication systems and multiple ROV, UUV and AUV applications. He also serves as a consultant to various companies in the Oil Industry. Because of his program management and design of many ROV systems and applications, Mr. Bannon has served as a technical / industry expert witness for various law firms in arbitration cases concerning ocean survey, pipeline crossings, GPS mapping, Sonar, installation and ROV Post Lay Inspection and Burial (PLIB) of underwater fiber optic cables.

Mr. Bannon holds degrees from Pennsylvania State University (BSEE, MBA - Global Management), George Washington (MSE - Quantitative Methods, MBA - International Management, and PMI Certificate), and Wharton School of University of Pennsylvania (MBA - General Management), and a certificate from Harvard Graduate School of Design (Computer Graphics). He has been a requested guest lecturer at various colleges and universities, including the U.S. Naval Academy and the Armed Forces Industrial College.

Mr. Bannon has been active in the IEEE-OES as an author and session chair at various Oceans Conferences including Miami (1991), Honolulu (1992), Tokyo (1997) and Halifax (1998). For Oceans 2000, Mr. Bannon was a member of the technical paper review committee, assisted the Technical Director with presentation organization, and he was an author / presenter, chaired multiple sessions, and involved in the recruitment of session chairs. He is also a member of the Marine Technology Society, and has also participated in a similar fashion with our sister society's Underwater Intervention in 1990 through 1993. He is also a representative to the technical paper selection committee for OTC 2001 and OTC 2002 for IEEE-OES, and has volunteered his assistance to John Wiltshire of the Hawaiian Undersea Research Laboratory in planning Oceans 2001. In addition, he has been a contributing author to Sea Technology Magazine on various occasions, addressing fiber optic systems, ROV design, and Sonar applications. Mr. Bannon has enjoyed his association with IEEE-OES and its members throughout his career, and will continue to make innovative contributions to benefit the Society, his fellow members, and the industry through creative ideas and strategic management of the Society, as a member of the Administrative Committee (AdCom) and the Co-Chair of the Submarine Cable Technology Committee.

Dan Jerry Ramsdale 1942 – 2000

Dan Jerry Ramsdale, a Senior Member of the IEEE Oceanic Engineering Society, died suddenly in New Orleans on September 12, 2000 after a gallant, three-year battle with a non-smoking related lung cancer.

Dan Ramsdale was born in El Paso, Texas on December 12, 1942. After he was awarded a B. S. in Physics, with highest honors, from the University of Texas at El Paso, he pursued graduate studies in nuclear physics at Kansas State University, receiving a doctorate in 1969. The subject of his Ph.D. research was the theoretical investigation of relativistic K-LL Auger transition rates, and was carried out under the guidance of Dr. Chander Bhalla.

In 1969, Dan accepted a position with Globe Universal Science Manufacturing, Inc. in El Paso. His research there involved a departure from his doctoral endeavors to the field of acoustic atmospheric investigations. During his tenure with GUS Manufacturing, Dan advanced from manager of NASA and U. S. Army projects to Director of Acoustic Research. His technical skills were expanded in areas of acoustic modeling, hardware development, and software development to invert acoustic data from the upper atmosphere to yield temperature and wind structure aloft, areas that proved to be invaluable in the last 25 years of his productive research activities.

Dan switched from atmospheric acoustics to underwater acoustics in 1974, when he was appointed a research physicist in the Acoustics Division of the Naval Research Laboratory (NRL) in Washington, DC. In this position, Dan was a principal investigator in underwater low-frequency acoustic fluctuations in the deep ocean. Dan developed a model that predicted the statistical fluctuations observed in long-range propagation that were due to source motion and medium variability.

The next upward shift in Dan's career occurred in 1977 and involved moving to the fledgling Naval Ocean Research and Development Activity (NORDA) on the Gulf Coast of Mississippi where he became a principal in-



Dan Jerry Ramsdale

investigator for array acoustics and signal processing. Here, Dan and his associates focused on understanding the various deep ocean propagation paths and the use of vertical arrays required for their interpretation.

In the early 1980s, the U. S. Navy embarked on a research, development, and engineering program to explore the properties of and the limitations imposed by the Arctic Ocean and the overlying ice cap on underwater acoustics. This embraced many aspects of underwater acoustics and involved many Navy and university laboratories. In 1985 Dan was assigned technical management of the Arctic Undersea Warfare Environmental Technology Program. Dan had responsibility for funding and integrating the technical research at Navy and university laboratories, including contractors. The researchers in this program collaborated with their counterparts in Canada. During the following year Dan became the Head of the newly formed Arctic Acoustics Section at NORDA.

During the duration of the program, Dan Ramsdale served as chief scientist for five major multi-laboratory international ice camps in the Arctic Ocean (Chukchi and Lincoln Seas). The nature of the environmental acoustics research ranged from high-frequency torpedo-oriented work to low-frequency ASW detection and localization work.

For his outstanding work in the Arctic, Dan received two Distinguished Unit Citations from the Chief of Naval Research.

In 1988, Dan was appointed Assistant Director of the Ocean Acoustics and Technology Directorate of the Naval Oceanographic and Atmospheric Research Laboratory (NOARL, after renaming). As Assistant Director, he was responsible for managing the funds and providing technical oversight for the programs within the directorate. Following NOARL's merger with NRL in 1992, Dan was appointed Head of the Ocean Acoustics Branch, Naval Research Laboratory-Stennis Space Center, Mississippi (NRL-SSC). His duties included providing technical and administrative direction to the scientists and engineers engaged in, primarily, at-sea tests and experiments. The technical areas included high-, mid-, and low-frequency acoustic research in shallow water.

Following his retirement from NRL-SSC in 1998, Dan became an Independent Consultant providing technical services to NRL-SSC and the Los Alamos National Laboratory. His services were in support of the Comprehensive Nuclear Test Ban Treaty embracing infrasonic monitoring, ambient noise, and high-frequency acoustics.

At the time of his death, Dan was actively involved in the development of atmospheric acoustic field experiments at the National Center for Physical Acoustics at the University of Mississippi.

For those who knew Dan, it is apparent that he considered his involvement in Arctic Ocean acoustics as his "crowning achievement". He was enthusiastic in his personal participation in the challenging polar experiments. His publication list and presentations reflect all aspects of his research. Many of the publications were in classified journals and reports.

Dan was active in two professional societies. He was Chairman of the Technology Committee on Underwater

continued on next page

Acoustic Technology for the IEEE Oceanic Engineering Society (two terms). He also served as a Member of the Technical Committee on Underwater Acoustics for the Acoustical Society of America. Dan was also a member of the American Geophysical Union, the American Institute of Physics, Sigma Pi Sigma, and the Society of Sigma Xi.

Dan will be sorely missed by his family, colleagues, and friends. He was a gentle, warm, intelligent man whose door was open to all for technical discussions and guidance. Every-

one also benefited by Dan's habit of visiting offices and laboratories to discuss and observe their research progress. Throughout Dan's career, he was known as a participant in the work of the day, rather than a by-stander. He was a team player who jumped into the fray to solve a particular problem. Dan was also known for his keen observations about human nature and his fine sense of humor.

In his spare time Dan enjoyed music and playing the piano at parties for his friends.

Dan is survived by his wife of thirty-one years, Portia Elizabeth (Betsy) of Carriere, MS; his son, Stuart Edward of Mendenhall, MS; his daughter, Jerry Elizabeth Novak and his granddaughter, Ashley, of Hattiesburg, MS; his sister, Dorothy DeVore of Albuquerque, NM; and a niece and a nephew.

**ROBERT W. FARWELL
RALPH R. GOODMAN**

News Items

ADDITIONAL INFORMATION ON THE NEW VOLUNTEER GLOBAL TRAVEL ACCIDENT/MEDICAL PLAN

In the 14 March 2001 issue of the SOCIETY SENTINEL, the following information regarding the global travel accident/medical plan was announced (see following paragraph). A number of questions have been raised about coverage for volunteers attending conferences. In general, individuals are covered by this plan if they are BOTH an IEEE volunteer and either (1) a member of the conference organizing committee; (2) a conference speaker; (3) a conference session chair; or (4) an AdCom member of the Society sponsoring the conference. If you are only attending the conference, and are not a presenter, you are not covered by this plan.

This is the original announcement (from the 14 March 2001 SOCIETY SENTINEL): IEEE has established a new travel accident and medical plan to protect IEEE Volunteers who become ill, or injured, and require immediate medical attention while traveling on authorized IEEE business (defined as travel that is paid by the IEEE) outside of their country of permanent residence.

The plan, which was approved by the IEEE Executive Committee, went into effect 1 January 2001, and provides IEEE Volunteers with protection equal to 80% of reasonable and customary charges for medical expenses incurred while traveling on IEEE business (subject to terms and conditions of the policy). The plan is paid for by the Institute, and is provided to IEEE Volunteers at no charge. It is important to note that the individual's personal insurance, and / or national / government health plan, to the extent coverage is available outside the home country, is considered primary. If an indi-

vidual does not have an insurance, and/ or national / government health plan that provides this type of coverage, then the IEEE plan becomes the primary coverage.

Volunteers traveling on IEEE business outside his or her country of permanent residence should always check with their own insurance carrier concerning coverage outside their home country. Volunteers should carry information pertaining to personal insurance coverage when traveling abroad, such as: provider contact information, proof of coverage, etc.

For more information, including plan highlights, restrictions, and frequently asked questions, please visit the Volunteer Resources web page at <http://www.ieee.org/organizations/vols/global_trav_acc_med.html>.

FEBRUARY DEADLINE FOR 2002 GOVERNMENT FELLOWSHIPS

IEEE-USA will be accepting applications for 2002 U.S. Congressional and Federal Communications Commission (FCC) Fellowships through 23 Feb. 2001.

Congressional Fellows spend a year in Washington, D.C., working on the staff of a member of Congress or congressional committee. IEEE-USA also is seeking an Executive Fellow with background in antennas and propagation, Internet technology, satellite systems and/or software radios to spend a year as an advisor to the FCC's Office of Engineering and Technology.

For more information on both opportunities, visit the Government Fellowships Web page at "<http://www.ieeeusa.org/forum/govfel>" or contact Chris Brantley – IEEE-USA – "MailTo:c.brantley@ieee.org".

IEEE-USA WEBZINES TO FOCUS ON CAREERS AND PUBLIC POLICY

Two insightful monthly Webzines, "Today's Engineer" and "Policy Perspectives for Today's Engineer," will be offered free to all IEEE members in mid-January 2001 by IEEE-USA. Previously available only through subscription, the award-winning "Today's Engineer" is embarking on its fourth year of publishing feature articles on career guidance, tips, strategies and solutions for all segments of the profession. IEEE-USA also will launch "Policy Perspectives," which offers an in-depth look at policy issues important to practicing engineers – both young professionals and experienced engineers. Articles will be written by experts from industry, government and academia. Look for them at <<http://www.todaysengineer.org>>.

ELEVATE YOUR STATUS TO SENIOR MEMBER

If you have been in professional practice for 10 years, you may be eligible for Senior Membership, the highest grade of membership for which an individual can apply. New senior members receive a wood and bronze plaque and a credit certificate for up to US\$25 for a new IEEE society membership. In addition, a letter will be sent to employers, recognizing this new status.

For more information on senior member status, visit <http://www.ieee.org/membership/grades_cats.html#SENIORMEM>.

To apply for senior member status, fill out an application at <<http://www.ieee.org/organizations/rab/md/smelev.htm>>.

NEW SENIOR MEMBERS LISTED ON WEB

The new IEEE senior members elected at the June Admission and Advancement Panel meeting have been posted on the Web at <<http://www.ieee.org/organizations/rab/md/jun00smupdt.html>>. To receive a hard copy of this report, send an e-mail message with your name and address to Mila Thelen - IEEE Regional Activities – "MailTo:m.thelen@ieee.org".

Senior Member reports from February 1998 to the present may be found at <<http://www.ieee.org/organizations/rab/md/smupdates.html>>. Questions about the status of a senior member elevation should be sent by e-mail to MailTo:senior-member@ieee.org."

CONFERENCE TUTORIALS

Do you offer tutorials or short courses at any of your conferences? IEEE Educational Activities is compiling a list of links to educational offerings available through Societies' Conferences. Positioned in the IEEE Professional Development Institute (IEEE PDI), the list will publicize Conferences

to those outside the Societies who may be interested in enhancing their careers. It will draw members to your website and conference sites with one easy click.

Please submit your links to MailTo:education-services@ieee.org. For additional information, CONTACT Lynn Murison – IEEE Educational Activities – telephone +1 732 562 6526; MailTo:l.murison@ieee.org.

IEEE XPLORE

Following several months of extensive testing of IEEE business rules and communications to the membership, IEEE Xplore is now ready for member access. Visit IEEE Xplore <<http://www.ieee.org/ieeexplore>> to search and view abstract/citation records starting from 1988 as well as full-text of your personal subscriptions. Both services were formally provided by Bibliographies Online and OPeRA, respectively.

IEEE Xplore currently offers more than 630,000 documents at your desktop. New content is added weekly. In the near future, new enhancements will further expand IEEE Xplore's offerings. Document references will be available in the abstract/citation records. Those references will include links to IEEE referenced content within IEEE Xplore as well as to referenced content of other publishers. Linked references highly improves the navigation of IEEE Xplore. Additional enhancements are planned in 2000 and 2001.

IEEE members must have an IEEE Web Account to access IEEE Xplore. Members can easily establish an account at <<http://www.ieee.org/web/accounts/>>. Access permissions are determined by a member's society membership. In general, basic rights include:

- Browse tables of contents of journals, magazines, conferences and standards starting from 1988
- Search and view of all abstract/citation records starting from 1988
- Full-text access of IEEE Spectrum content starting from 1988
- Full-text access of personal subscriptions based on society rules

For more information about IEEE Xplore, CONTACT Barbara H. Lange – IEEE Publishing Business Development - telephone +1 732 562 5390; MailTo:b.lange@ieee.org.

NEW WEB APPLICATIONS

Three major web applications recently went into service, each with true e-business functionality. For Society members, a key new feature is "Addition of Service," which allows a member to join any IEEE Society and purchase publications – at member prices – over the web. The "Addition of Service" feature may be used at any time, so that members may add a Society at any time during the year.

continued on next page

The services are:

- 1) New Member application, with Instant Service and all back office systems totally automated,
- 2) 2001 Renewal application, with Instant Service and all back office systems totally automated, and
- 3) Addition of Service application, with Instant Service and all back office systems totally automated.

The term “instant service” means that all electronic services that a member is entitled to, and which are authenticated via an IEEE web account, are instantly available to the member after they complete the web transaction. Please note that the availability of these services is based on the Society’s business rules. Services include:

- access to IEEE Xplore < <http://ieeexplore.ieee.org/lpdocs/epic03/>> the dynamic new online delivery system for most IEEE publications. Member access to IEEE Computer Society electronic subscriptions continues to be available through the IEEE Computer Society Digital Library.
- electronic access to IEEE Spectrum Online <<http://www.spectrum.ieee.org/>>

- member prices on purchases from IEEE Online Catalog and Store <<http://shop.ieee.org/store/>>
- member prices for purchases at the IEEE Fatbrain book-sales site <<http://www.ieee.org/services/infoadvantage/fatbrain.html>>
- ability to choose an e-mail alias

The term “Back office systems totally automated” means that the transactions are handled automatically and are not touched by IEEE staff hands.

These new and improved applications are the result of a major transformation of our Information Systems and Web Applications. Please go to <<http://www.ieee.org/>>, click on “Renew” and renew your membership. All that you will need is an IEEE Web Account. After you renew, at any time, you can go back to our home page, click on “Add Service” and join another IEEE Society or purchase another publication.

For additional information, CONTACT IEEE Member Services - telephone +1 800 678 4333 (US), +1 732 981 0060 (worldwide): e-mail: member-services-[insert IEEE Region number 1-10]@ieee.org.

Upcoming Conferences and Meetings

AUV Fest 2001

April 22-29, 2001

(Near Ship Island) off Gulfport, MS
Information, Kevin Schexnayder
(228) 689-8007
email: schexnayderk@navo.navy.mil

OTC 2001

April 30-May 3, 2001

Houston, Texas
<http://otcnet.org>

Pacific Asian Conference

May 21-23, 2001

Hainan, China
(808) 956-6163

4th International Conference on Marine Technology

May 23-25, 2001

Sczecin, Poland
<http://www.wessex.ac.uk>

Coastal Zone 2001

July 17-19, 2001

Cleveland, Ohio
<http://www.csc.noaa.gov/cz2001>

Waves 2001,

The Fourth International Symposium on Ocean Wave Measurement and Analysis

September 3-5, 2001

San Francisco, CA
<http://edge.tamu.edu/waves01>

Dynamic Positioning Conference

September 18-19, 2001

Houston, Texas
<http://www.dynamic-positioning.com>

Undersea Defense Technology (UDT) Conference & Exhibition

October 30 - November 1, 2001

Hawaii, Texas
<http://udt-net.com>

MTS/IEEE Oceans 2001

November 5-8 2001

Honolulu, Hawaii
<http://www.mtsociety.org>



Conference and Exhibition November 5–8, 2001
 Exhibits November 6–8, 2001
 Hilton Hawaiian Village, Honolulu, HI

Don't miss the industry's premier U.S. Conference and Exhibition

- More than 2000 attendees expected from more than 25 countries
- More than 300 innovative technical presentations by marine science and technical experts worldwide
- Hundreds of local marine technology professionals providing products and services within the flourishing Asia-Pacific market, across the U.S. mainland and in Europe
- In a location rich in ocean R&D and education facilities, Hawaii is a valuable opportunity to meet many of the industry's leaders
- More than 150 companies exhibiting marine-related technologies

As honorary co-chairs, we invite you to attend the OCEANS 2001 MTS/IEEE. We are planning an outstanding program that will focus on technical advances, economic potential and military and industrial needs for the future.



For more information, please contact:

J. Spargo & Associates, Inc.
 11212 Waples Mill Rd., Suite 104, Fairfax, VA 22030
 Tel: (703) 564-4220 • (703) 631-6200 • E-mail: oceans@jspargo.com

UNDERWATER TECHNOLOGY 2002



Underwater Technology 2002



“Technology for the Last Frontier” International Symposium

CALL FOR PAPERS

Sponsored by:

- Institute of Electrical and Electronics Engineers (IEEE)
- Oceanic Engineering Society (OES)
- Institute of Industrial Science, University of Tokyo
- Office of Naval Research (ONR), Asian Office

16 -19 APRIL 2002

The New Sanno Hotel, Tokyo, Japan

Sessions will cover various technologies and applications in the underwater environment.

Topics may include, but are not limited to, the following areas:

Underwater Acoustics
& Signal Processing
Underwater Positioning
Underwater Observation

Underwater Vehicles & Robotics
Underwater Construction
Underwater Bio-Related Technology



View the entire Call For Papers on our “Up-to-Date” web site at

<http://underwater.iis.u-tokyo.ac.jp/ut02/>



DEADLINE FOR SUBMISSION: OCTOBER 19, 2001

NOTE: PREFERRED ABSTRACT SUBMISSION IS BY E-MAIL TO:

Prof. Akira Asada
E-Mail: asada@iis.u-tokyo.ac.jp

OR

Mr. Robert L. Wernli
E-Mail: wernli@spawar.navy.mil



Institute of Industrial Science,
University of Tokyo
4-6-1 Komaba, Meguro-ku
Tokyo, JAPAN
Phone: +81-3-5452-6187
Fax: +81-3-5452-6189



SSC San Diego
c/o 11775 La Colina Rd.
San Diego, CA 92131-1413
USA
Phone: +1-619-553-1948
Fax: +1-619-553-1915

CALL FOR PAPERS

B/W Full Page Ad
IEEE "Surf our Site"
camera-ready art supplied

ELECTED ADMINISTRATIVE COMMITTEE

JAMES BARBERA
(see Chapter Chair)
HISAAKI MAEDA
Institute of Industrial Science,
University of Tokyo
7-22-1 Roppongi, Minatoku,
Tokyo 106, Japan
+81-3-3402-6231 ext. 2255
+81-3-3402-5349 (Fax)

DANIEL L. ALSPACH
ORINCON Corp.
9363 Towne Center Drive
San Diego, CA 92121
+1 619 455 5530
+1 619 452 4258 (Fax)
alspach@snap.org

NORMAN D. MILLER
(see Vice President)

JOSEPH R. VADUS
(see Vice President, Technical Activities)

MICHAEL INGRAM
14 Monument Street, #3
Charlestown, MA 02129
617 258 3279 (Phone)
617 258 3858 (Fax)
ingram@ieeee.org

JOHN W. IRZA
Sygnus Technology, Inc.
Arlington, MA USA
+1 781 648 2144
+1 781 641 9974 (Fax)
jirza@sygnus.com

ARCHIE TODD MORRISON III
McLane Research Laboratories, Inc.
Falmouth Technology Park
121 Bernard E. St. Jean Drive
East Falmouth, MA 02536
508-495-4000 (Phone)
508-495-3333 (Fax)
atmorrison@mclanelabs.com

ROBERT C. SPINDEL
(see Associate Editors)

STANLEY G. CHAMBERLAIN
Raytheon Electronic Systems
MS T3TN46, 50 Apple Hill Dr.
Tewksbury, MA 01876
508 858 5012;
508 585 1955 (Fax)
s.chamberlain@ieeee.org

ALBERT J. WILLIAMS 3RD (SANDY)
Applied Ocean Physics & Engineering,
MS#12
Woods Hole Oceanographic Institution
Woods Hole, MA 02543
508-289-2725
awilliams@whoi.edu

PAUL A. ROSENSTRACH
The Charles Stark Draper Laboratory
555 Technology Square
Cambridge, MA 02139
617-258-1610
617-258-3007 (fax)
prosenstrach@draper.com

CHARLES RANDELL
C-CORE
Memorial University of Newfoundland
St. John's, Newfoundland
Canada A1B 3X5
+1 709 737 4011
crandell@morgan.ucs.mun.ca

SHERI L. REES
Engenuity Development Network
116 NW 130th Street
Seattle WA 98177
206-440-1455
s.l.rees@ieeee.org

RENE GARELLO
Telecom Bretagne
Dpt. ITI BP 832
29285 Brest Cedex France
33 2 98 00 13 71
33 2 98 00 10 98 (Fax)
rene.garello@enst-bretagne.fr

ROBERT T. BANNON, President
Bannon International Consulting
301 Willow Run
East Stroudsburg, PA 18301-8591
rtbannon@csrlink.net
570-619-5430
570-619-5107 (Fax)

CLAUDE P. BRANCART
(see Ex-Officio)

JOSEPH CZIKA, JR.
T.A.S.C., Inc.
12110 Sunset Hills Road
Reston, VA 22090-3221
j.czika@ieeee.org
703-834-5000 Ext. 7122
703-318-7900 (Fax)

STEPHEN M. HOLT (see Secretary)

PAMELA J. HURST
General Dynamics Advanced
Technology Systems
67 Whippany Road, Rm. 15G-417
Whippany, NJ 07981
973-463-4475 (Phone)
973-463-4988 (Fax)
phurst@gdata.com

FREDERICK H. MALTZ
(see Newsletter Editor)

EX-OFFICIO

Jr. Past President

GLEN N. WILLIAMS
Engineering Program Office
Texas A&M University
College Station, TX
77843-3112
409-845-5484
g.williams@ieeee.org

Sr. Past President

CLAUDE P. BRANCART
18 Juniper Road
Brunswick, ME 04011-3414
207-729-7873
monkfish@blazenetme.net
c.brancart@ieeee.org

Membership Development

JAMES S. COLLINS
Dept. of Elec. & Comp. Engineering
University of Victoria
P.O. Box 3055
Victoria, B.C. CANADA V8W 3P6
+1 250 595 6928;
+1 250 595 6908 (Fax)
j.s.collins@ieeee.org

Nominations

CLAUDE P. BRANCART

Chapters

NORMAN MILLER

Journal Editor

JAMES F. LYNCH

Awards and Fellows

DAVID WEISSMAN
Dept. of Engineering
104 Weed Hall
Hofstra University
Hempstead, N.Y. 11549
516-463-5546
516-463-4939 (Fax)
egggedew@hofstra.edu

Publications Review Board

GLEN N. WILLIAMS

Newsletter Editor

FREDERICK H. MALTZ

Pace

NORMAN D. MILLER

TAB Engineering Research and Development Policy Committee

JOSEPH R. VADUS

CHAPTER CHAIRMEN

Canadian Atlantic
FERIAL EL-HAWARY
61 Bay View Road
Halifax Nova Scotia
Canada B3M 1N8
(902) 443-2400
(902) 445-5110 (FAX)

France

RENE M. GARELLO
Telecom Bretagne
Dept. Image Et Traitement de l'Information
Technopole Brest Cedex
29285 Brest Cedex, France
(33) 98 00 13 71
(33) 98 00 10 98 (FAX)
r.garello@ieeee.org

Houston/Galveston Bay

AL WILLIAMS
FSSL Inc.
525 Julie Drive
Sugar Land, TX 77478
(713) 240-1122 ext 214
(713) 240-0951 (FAX)

Hawaii

BOBBIN TALBALNO
94-792 Nolupe Street
Waithu, HI 96797
(808) 608-3200
(808) 668-3780 (FAX)

Japan

Junzo Kasahara
Earthquake Research Institute
University of Tokyo
1-1-1, Yayoi, Bunkyo
Tokyo 113-0032 Japan
+81 3 5841 5713
+81 3 5689 7234 (FAX)
kasa2@eri.u-tokyo.ac.jp

Norway

DR. THOR I. FOSSEN
Professor of Guidance and Control
Dept. of Engineering Cybernetics
University of Trondheim, N-8034
Trondheim, Norway
47-73594361
47-73594399 FAX

San Diego

BRETT CASTILE
Orincon Corporation
9363 Towne Center Drive
San Diego, CA 92121
(619) 455-5530 X212
(619) 453-9297 (FAX)

Seattle

SHERI L. REES
Engenuity Development Networks, Inc.
116 NW 130th
Seattle, WA 98177
(206) 440-1455
(206) 440-1438 (FAX)
s.l.rees@ieeee.org

Victoria

James S. Collins
(See Elected Administrative Committee)

Washington D.C./No. Virginia

JAMES BARBERA
13513 Crispin Way
Rockville, MD 20853
(301) 460-4347
(301) 871-3907 (FAX)

IEEE OCEANIC ENGINEERING SOCIETY TECHNOLOGY COMMITTEE CHAIRS

Modeling, Simulation & Visualization, ED GOUGH

Marine Communication Navigation & Positioning, JOHN D. ILLGEN

Oceanographic Instrumentation, MR. KENNETH FERER

Current Measurements, DR. ALBERT (SANDY) J. WILLIAMS 3RD

Underwater Acoustics, DR. KENNETH G. FOOTE

Unmanned Underwater Vehicles, CLAUDE P. BRANCART

Air/Space Remote Ocean Sensing, DR. DAVID E. WEISSMAN

Sonar Signal & Image Processing, DR. JAMES CANDY

Non-Acoustic Image Processing, DR. FRANK M. CAIMI

Neural Networks and Information Processing, V. WILLIAM (BILL) PORTO

Environmental Technology, JAMES T. BARBERA, SR.

Technology Committees Coordinator, DR. STANLEY G. CHAMBERLAIN

Submarine Cable Technology, ROBERT T. BANNON & PAMELA J. HURST