

IEEE

Broadcast Technology Society



ISSN 1067-490X

Volume 6, Number 4, November 1998

NEWSLETTER

From The Editor

With the very successful 48th Annual IEEE Broadcast Technology Symposium behind us, broadcast technology folks can look forward to NAB in Las Vegas in April. The technology landscape continues to change, and it is impossible to keep up with all aspects. Our thanks to the hard working people in our Society for helping to keep us all informed.

In this issue of the Newsletter look for an excellent report of the Symposium, announcements of recent elections and some interesting dos and don'ts when using email.

Space in the Society Newsletter is available for your use. We welcome articles or any other interesting information from you.

John D. Tollefson

President's message

Garrison Cavell

The good news received just in time for this newsletter is that we have been able to locate a new Education chair, Dr. Tim J. Talty. Tim is an Assistant Professor in the Department of Electrical Engineering and Computer Science at the United States Military Academy (West Point, New York).

We also have located a volunteer to head our RF Standards Committee, Richard P. Biby, P.E. Rich heads a professional communications and data engineering firm in the Washington, D.C. suburb of Arlington, Virginia. I welcome them both and appreciate their stepping forward at this critical time in our industry.

You should also be aware that as part of my duties as President of your Society, I attended the November "Technical Activities Board" ("TAB") Meeting Series and the Society President's Forum on your behalf in Piscataway/New Brunswick, New Jersey. I also participated, with your transactions and newsletter editors, in a Publications Board peer review. Both the Newsletter and the Transactions were scrutinized for compli-

ance with IEEE recommended practices and procedures. The results of this review will be reported to you when they become available. A Society review will be conducted in June of next year.

Of particular interest is that the RAB/TAB Transnational Committee met during this series. As you may be aware, the goal of this committee is to enhance the transnational (international) characteristics of IEEE and to respond to the IEEE strategic plan of "full globalizations in 5 years." This committee is charged to identify policies and procedures to achieve the desired transnational character, but the committee is not specifically tasked to identify neither programs nor projects. Implementation of the policies is left to RAB and TAB operations.

We also received a report on a recent survey of IEEE members seeking to identify what actions IEEE should undertake to truly become "global." This survey was also addressed to various individuals outside IEEE, including Industries, Government, Universities, National Associations, and so forth in Regions 8-10. The results indicated that:

93% of those surveyed saw a need for a global professional society.
79% believed that IEEE should take this role.
43% said that IEEE is playing that role today.

Increased Representation from Regions 8-10 in various IEEE enti-

IEEE Change of Address Procedure Now Available on Internet

If you have access to the Internet, you can now change your address for all IEEE publications and correspondence by e-mail. Just send your change to: Address.change@ieee.org.

Be sure to include name, member number, mailing address and e-mail address, phone and fax numbers. Your change will assure the Transactions, IEEE correspondence and, most importantly, your Newsletter coming on time.

BTS Newsletter, August 1998

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Newsletter Deadlines

We welcome contributions from every member. Please forward materials you would like included to the editor. Here are our deadlines for upcoming issues:

Issue	Due Date
May, 1999	March 31, 1999
August, 1999	June 30, 1999
November, 1999	September 30, 1999
February, 2000	December 31, 1999

IEEE Broadcast Technology Society Newsletter is published quarterly by the Broadcast Technology Society of the Institute of Electrical and Electronics Engineers, Inc. Headquarters address: 3 Park Avenue, 17th Floor, New York, NY 10016-5997. Sent at a cost of \$1.00 per year to each member of the Broadcast Technology Society. Printed in USA. Periodicals postage paid at New York, NY and at additional mailing offices. Postmaster: Send address changes to: IEEE Broadcast Technology Society Newsletter, IEEE, 445 Hoes Lane, Piscataway, NJ 08855.

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President's Message *ont'd*

ties is a major goal that will obviously facilitate our globalization goals. To that end, a motion was passed in TAB by which future Nominations and Awards Committees will contain members from all Areas from which at least 5% of the membership of TAB originates. In addition TAB Standing Committees will provide annual reports that describe the geographic mix of membership. The Committee will continue to work on other efforts to increase such representation.

In other areas of interest the Educational Activities Board (EAB) presented a proposal to the IEEE Foundations (which was subsequently approved) for funding which would enable EAB and the Societies to form joint efforts to develop internet-based training courses for our members. More on this as it becomes available.

Finally, during the TAB meeting, three items were raised, which generated considerable

controversy. They were changing the IEEE logo (the "branding study"), methods for streamlining decision making at headquarters (wherein which headquarters staff would have considerably more authority in executing directives) and a new financial proposal for funding the Institute, which could materially affect Society finances. Also, a decision was made to create a new Standards organization (the Industrial Standards and Technology Organization or "ISTO"), whose purpose is to prepare industry sponsored standards much faster than conventional procedures. This is in response to efforts that have been assumed by industry consortia (which were developed as a more rapid alternative to the IEEE standards process).

If any of you have any questions on these matters or would like us to dig up information for you, feel free to contact any of the officers.

The 48th Annual 1998 IEEE Broadcast Technology Symposium A Success

Over 160 people attended the 48th Annual IEEE Broadcast Technology Symposium held at the Capital Hilton Hotel in Washington, DC from September 23 through 25, 1998. Attendees included engineers, consultants and technical manager from across the United States and Canada, China, Australia, Argentina, Spain, Korea and the Untied Kingdom.

The event opened on Wednesday, September 23rd with over ninety people attending a morning tutorial on planning RF facilities changes by William Meintel of Techware, Inc. and an afternoon tutorial on Visualizing MPEG video encoding by Michael Isnardi of the Sarnoff Corporation.

The Symposium technical sessions began on September 24th with the morning session on Digital Radio with presentation of papers and a digital radio panel. The

afternoon session provided technical papers on Antennas and Propagation. On Friday September 25 the morning and afternoon sessions concentrated on technical papers addressing digital television engineering.

Larry Irving, Assistant Secretary for Commerce and Information and Administrator, National Telecommunications and Information Administration for the Department of Commerce was the luncheon speaker on Thursday at the joint BTS/AFCCE luncheon. Robert Coonrod, President and CEO of the Corporation for Public Broadcasting was the keynote speaker for the Thursday evening awards banquet dinner. Dale Hatfield, Chief of the Office of Engineering and Technology, FCC was the luncheon speaker on Friday, September 25.

Three prominent members of the Broadcast Technology Society

were honored at the Thursday evening awards banquet. We honored Geza Dienes of Andrew Corporation for his election to Fellow of the IEEE for contributions to the design and development of broadcast antenna systems. His Fellow nomination was sponsored by the Broadcast Technology Society. Robin Blair of RFS Australia received the Matti S. Siukola Memorial Award for the best paper presented at the 1997 Symposium, entitled "Defining Filter Masks for Digital Television." The selection of his paper was based upon voting by last year's attendees.

A special award was presented in appreciation to Gerald and Francis Berman for their many years of dedication and hard work for the advancement of the Broadcast Technology Society.

Overall, the 1998 BTS Symposium was a success in terms of the large number of attendees and the high quality of all the technical papers presented.

We extend our gratitude to the 1998 Symposium Committee:

Edmond Williams, Chair; Richard Mertz, Treasurer; Thomas Gurley, Tutorial Manager, Gerald Berman, Coordinator; Theodore Kuligowski, Coordinator. We extend special thanks and appreciation to Garrison Cavell, President of the BTS for providing his personal support and the assistance of his staff throughout the year with the planning and administrative functions for this Symposium.

Special thanks are extended to the Technical Session Chairs for their planning and coordination with the presenters to make this event a success: Robert Surett of Shively Labs, Bruce Hunter of the USIA International Broadcasting Bureau, Lynn Claudy of the National Association of Broadcasters and Jeffrey Andrew of Gannett Broadcasting.

We look forward to seeing you next year. Plan to attend the 49th Annual IEEE BTS 1999 Symposium, which will be held in the fall in the metropolitan Washington area. The 1999 Committee is considering alternate dates for the

1999 Symposium rather than the usual last week in September 1999. This year we experienced a significant increase in hotel costs since we were required to pay premium prices due to the limited availability of hotel facilities during September. We are encountering the same limited hotel facilities during September 1999.

A change in the 1999 Symposium date is expected to help the Society keep hotel costs under control while providing the Committee with a wider range of hotel choices in the metropolitan Washington area. Currently the Committee is considering the first week of November as a potential 1999 Symposium date - November 3, 4 and 5. The 1999 Committee requests comments from the Society members with their views about changing the Symposium event from September to November. Please email your comments or suggestions to Ted Kuligowski, BTS Administrator at tkuligowski@ieee.com.

1998 IEEE Annual Election Results Announced

Following are the results of the 1998 Election, validated by the IEEE Tellers Committee on 5 November. Please note that the results of this election are unofficial until the IEEE Board of Directors accepts the Report of the IEEE Tellers committee at its meeting on 15 November.

OFFICE OF PRESIDENT-ELECT, 1999:

Bruce A. Eisenstein

VICE PRESIDENT, TECHNICAL ACTIVITIES, 1999:

Michael S. Adler

VICE PRESIDENT-ELECT, TECHNICAL ACTIVITIES, 1999:

Robert A. Dent

OFFICE OF DIVISION DELEGATE/DIRECTOR, 1999-2000

Division II: Barry C. Brusso

Division VI: Luis T. Gandia

Division X: Janie M. Fouke

OFFICE OF DIVISION DELEGATE-ELECT/DIRECTOR-ELECT Division V, 1999:

Doris L. Carver

OFFICE OF REGION DELEGATE-ELECT/DIRECTOR-ELECT Region 2, 1999-2000:

Marc T. Apter

Region 4, 1999-2000:

Myron F. Wilson

Region 5, 1999:

Joseph V. Lillie

Region 6, 1999-2000:

Lawrence M. Hamerman

OFFICE OF IEEE-USA PRESIDENT-ELECT, 1999: Merrill W. Buckley, Jr.

OFFICE OF IEEE-USA MEMBER-AT-LARGE, 1999-2000: Michael C. Mulder

CONSTITUTIONAL AMENDMENT

A vote of at least two-thirds of all ballots cast, provided the total number of those voting is not less

than 20 percent of the total number of members eligible to vote, in favor of an amendment is necessary for adoption.

The total number of ballots mailed: 237,556

The total number of ballots returned: 51,483

The percentage of ballots returned: 21.67 percent

The percentage of members voting on the amendment: 20.34 percent

A two-thirds majority of 20 percent of those ballots returned: 31,675

Number of Votes FOR amendment: 42,475

Number of Votes AGAINST amendment: 5,846

All requirements for the Constitutional amendment have been met.

For more information about these results, call Fern Katronetsky, Corporate Activities, ext. 3932.

CALL FOR PAPERS

IEEE

Broadcast Technology Society

49th ANNUAL BROADCAST SYMPOSIUM

BROADCASTING FOR THE NEW MILLENIUM

Fall, 1999

Metropolitan Washington, D.C.

(Specific dates and hotel to be announced)

Topics may include: Digital and analog radio and television transmission, AM, FM, and TV antenna systems, measurements, RF radiation standards, testing, and other new developments in broadcast transmission engineering

Send 250 Word Abstract by May 7, 1999 to
IEEE Broadcast Technology Society
c/o Ms. Mary Clemente
IEEE Travel & Conference Management Services
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
USA

Phone: (732) 562-5350
Fax: (732) 981-1203
E-mail: m.e.clemente@ieee.org

Please include with your abstract:
Name, Company (if applicable), Address,
Telephone, Fax, and Email

IEEE Board of Directors Elected for 1999

The IEEE Assembly has elected members of the IEEE Board of Directors for 1999 during the meeting of the Assembly and the Board in New Brunswick, NJ.

Re-elected for their second one-year term were Arthur Winston, vice president, Educational Activities and Daniel Benigni, vice president, Regional Activities.

Newly elected IEEE Board members are Lloyd "Pete" Morley - vice president, Publishing Activities; Donald Loughry, vice president, Standards; Maurice Papo, secretary; and David Conner, treasurer.

The officers will begin their term on 1 January 1999 led by 1999 IEEE President Kenneth Laker.

The IEEE Board of Directors has nominated four candidates for 1999 president-elect. They are Raymond D. Findlay, professor of electrical and computer engineering, McMaster University, Hamilton, Ontario; Lloyd "Pete" Morley, professor of electrical engineering, University of Alabama; Edward A. Parrish, President, Worcester Polytechnic Institute, Worcester, Mass.; and Joel B. Snyder, consulting engineer, Snyder Associates, Plainview, N.Y. and senior industry professor, Polytechnic University, Brooklyn, N.Y.

The Board also confirmed the tally of this year's election results from the teller committee.

Conference Announcement

The Forty-fourth Annual conference on Magnetism and Magnetic Materials (MMM '99) will be held at the Fairmont Hotel in San Jose, California, USA, November 15-18, 1999.

The Conference annually brings together scientists and engineers interested in recent developments in all branches of fundamental and applied magnetism. Emphasis is placed on experimental and theoretical research in magnetism, the properties and synthesis of new magnetic materials, and advances in magnetic technology. The program will consist of invited and contributed papers. Selection of contributed papers is based on abstracts, which are due May 15, 1999. Abstract books will be available at the Conference, and Proceedings will be published in the Journal of Applied Physics, April 2000.

Individuals who are not on the Conference mailing list may obtain Conference information and details concerning the preparation of abstracts by contacting the Conference Coordinator:

Courtesy Associates
2000 L Street, NW Suite 710
Washington, DC 20036
Tel. 202-973-8668
Fax 202-973-8722
magnetism@courtesyassoc.com

The latest information on the conference can be obtained on the World Wide Web via the conference web site:

<http://www.magnetism.org>

CALL FOR PAPERS

IEEE Transactions On Broadcasting

The IEEE Transactions on Broadcasting is focusing on the timely subjects of Advanced Digital Television and Digital Audio Broadcasting, and invite papers on those and related subjects.

We are particularly interested in papers which address practical aspects of the conversion to Advanced Digital Television, which will be of high interest to our readership in the coming months.

Topics on which we specifically invite papers are:

RF power amplifiers suitable for ATV

Practical implementations of Grand Alliance exciters

Transmission line considerations for ATV and DAB

Digital video measurement techniques

Digital audio measurement techniques

Measurement techniques for digital television RF systems

Broadband, multiplexed antennas for ATV

Practical RF systems designs for ATV and DAB

Computer prediction methods of ATV and DAB coverage

Papers should be prepared in accordance with IEEE camera ready publication standards. Please contact the Editor for an author's kit. Originals and five copies of papers should be submitted to:

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Terms expiring in 2001 – Election results pending

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Society on Social Implications of Technology

Vacant

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