

New Wisconsin EBS Chairman Appointed

Wisconsin has a new chairman of the State Emergency Communications Committee (EBS Committee). Gary Timm, an engineer at WTMJ/WKTI in Milwaukee for the past twenty years, has taken on the job. In addition, he will continue as the Southeast Operational Area EBS Chairman, a position he has held since 1981. Timm succeeds past-chairman Don Moran, whose increased duties at the Wisconsin Educational Communications Board prevented him from continuing in this post. Thanks go out to Don Moran for all his years of service.

State and local EBS chairs are volunteers from the broadcast community, appointed to the position by the FCC. They are to act as a liaison between the broadcasters, as providers of the system, and the Emergency Government Officials, as users of the system. They are also charged with testing the system to keep it in working order.

Timm plans to restructure the annual State EBS Test to a random/unannounced-time format, to make for a more realistic test. According to Alan Wohlfert, Wisconsin Division of Emergency Government, 60 percent or nearly 200 TV and radio stations were given advance notice when they participated in last Spring's annual State EBS Test. Participation during the 1992 State EBS Test was 82 percent. Wohlfert said the lower participation percentage for 1993 was due to non-participation of the West Wisconsin Operational Area's CPCS-1 (common program control stations).

Wohlfert and Timm are looking at redrawing some of the state's operational area (OA) boundaries, moving a few counties from one OA to another. This would result in the stations of that county monitoring a different CPCS-1 than they currently listen to...usually a closer and more logical one.

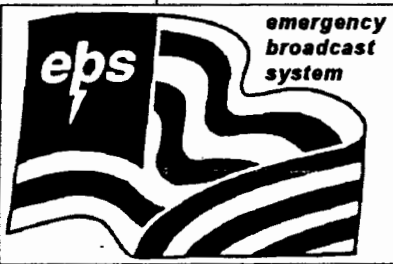
If any broadcast station in Wisconsin feels they would benefit from changing their monitoring assignment (better reception, etc), or they already do not listen to their assigned CPCS-1, please relay this info to Gary Timm for consideration of a change in your monitoring assignment. Remember, it is an FCC violation if you are caught monitoring a station other than your assigned CPCS-1. If you are having reception problems, you must request a waiver to monitor another station.

Progress Toward a New EBS

By Gary Timm, State Emergency Communications Committee Chair

At the recent SBE Convention in Miami Beach, there was a half-day session relating to the NEW EBS. The FCC recently completed field tests on several proposed "enhanced emergency alerting systems" to replace our current EBS. The tests, conducted in Denver from June 27-30, and in Baltimore from Sept. 12-15, were monitored by numerous representatives from the FCC, NOAA, Cable Operators and State and Local EBS Committee chairmen, as well as other broadcasters.

All systems were subjected to numerous tests, including: decoding in a mobile environment on AM & FM, effects of AM skywave, effects of running signal through multiple processing units on AM & FM, and tests over the TV SAP channel. Some alerts were decoded at home cable boxes, where

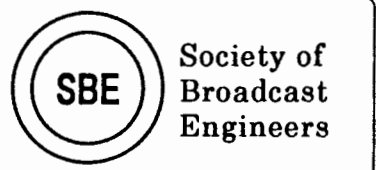


specific areas could be alerted while others were not. Also, the error-correction schemes of all systems worked reliably during noise-injection tests. Anti-hacker security was also studied. At the conclusion of testing in Baltimore, a demonstration was given for the press where all systems worked flawlessly. In the end, there were no clear winners or losers.

The SBE Convention speakers, all of whom attended the tests, felt that we will probably be seeing one box that will monitor multiple sources and transmission means, and will have auto-control command outputs for use at unattended cable head-ends and automated broadcast stations.

One encouraging aspect of the development/testing process is the involvement of the Cable TV industry. The FCC invited Cable to participate, and the Cable Committee has made major contributions to the design parameters of the system so that it will meet their needs. The Cable TV community plans to be an integral part of the NEW EBS.

So where do we go from here? The FCC released a Public Notice on Oct. 6, 1993, making the two 500-page reports on the tests available to interested parties. Comments are to be filed by Nov. 12th, reply comments by Nov.



Upper Midwest Regional Conference Presents

ALL-CHAPTER NATIONAL TELECONFERENCE

Wednesday, November 10, 1993
Holiday Inn Southeast, Madison

Chapters meeting at 7:00 P.M.

Teleconference at 7:30 P.M.

Featured panelists include:
President Chuck Kelly
Vice-President Terry Baun
Executive Director John Poray
SBE Counsel Chris Imlay

Following the teleconference, a 8:30 P.M. social is planned.

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26th. Speaking at the SBE Convention, Richard Smith, Chief of the FCC's FOB, said he would then be drafting a Report and Order to be submitted for a vote before the Commission. He is expecting this action in winter of 1994. "An implementation period would then be needed."

Indications are that the FCC may mandate merely a protocol to be used, rather than choosing a particular system. This would enable all systems proponents to adapt their equipment for use under the NEW EBS. It would also allow for the continued use of high technology delivery methods already in use, such as New York State's satellite-delivered EBS network.

CHAPTER 24 OFFICERS

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Leonard Charles (WISC-TV)
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H - 274-0041

VICE-CHAIR:

Fred Sperry (WI Public TV/TOC)
W - 264-9600
H - 833-6074

SECRETARY:

Kerry Maki (WMSN TV)
W - 833-0047
H - 835-5195

TREASURER:

Paul Stoffel (WI Public TV)
W - 263-2175
H - 241-4621

COMMITTEE APPOINTEES

Program Committee:

Mark Croom	271-1150
Denise Maney	277-8001
Kerry Maki	833-0047
Steve Zimmerman	274-1234

Membership: Leonard Charles

Sustaining Membership: Stan Sarch

Strategic Plan: Dennis Behr

Special Events: Kevin Ruppert

Certification and Education:

Jim Hermanson (Past-Chair)
Tim Trendt, Platteville

Freq. Coordinator: Tom Smith

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Chapter Liaison: Steve Peck 608-246-9797

National SBE Liaison:

Terry Baun
414-449-5300 (voice)
414-449-5380 (fax)

October Meeting Minutes

Chapter 24 of the Society of Broadcast engineers met on Tuesday, October 19, 1993, at the WMSN-TV 47 studio in Madison. 19 SBE members attended, 14 who were certified, and 7 guests, for a total of 26.

Chair Leonard Charles called the meeting to order at 7:00 p.m. Minutes were approved as printed in the newsletter.

Treasurer and Newsletter Editor Paul Stoffel reported the checking account balance. The newsletter deadline is October 27, with the folding session set for October 31.

Membership Chair Leonard Charles reported a current membership of 64, with a total newsletter mailing list of 171.

Sustaining Membership Chair Stan Sarch reported a total of 23 sustaining members.

Program Chair Steve Zimmerman indicated there were no changes to the published program calendar.

Kevin Ruppert, Special Events Chair, has been busy scheduling the staffing for the booth at the Broadcasters Clinic.

Certification Chair Jim Hermanson noted two individuals will be taking the certification exam in November. Dates and location will be finalized shortly.

Frequency Coordinator Tom Smith reports no activity over the last month.

Chair Leonard Charles updated Chapter 24 members on the SBE National news. Chapter 24 received National Awards for Best Chapter Newsletter; Best Newsletter Issue; and Best Non-technical Article or Program. Chapter 24 also nominated the winner of the National Educator of the Year Award, which went to Dr. Jack O'Neill of UAW-Platteville. Congratulations to Paul Stoffel who was involved in all but the National Educator of the Year Award. National election results are: President: Chuck Kelly; Vice President: Terry Baun; Secretary Keith Kirtner; and Treasurer Bob Goza. Financial results of the recently completed Fall SBE Convention in Miami indicate a \$25,000 loss in revenue due to a shortfall in expected exhibit booth sales. This shortfall should be made up in decreased expenses and should not result in a decrease in member services, or an increase in dues. The latest issue of "Short Circuits" has a FAX-BACK questionnaire seeking membership input for the upcoming 1994 engineering conventions.

Plans have been completed for the SBE Regional Uplink from the Broadcasters Clinic this November. The program will be a panel discussion consisting of National SBE Officers.

In old business, Vice-Chair Fred Sperry mentioned the scholarship application deadline for the Broadcasters Clinic has passed, the winner will be announced shortly.

New Business: Leonard Charles said next years Ennes Workshop has been awarded to Chapter 26 of Chicago, possibly set for the Spring of 1995. Stan Sarch announced he would be stepping aside and Mark Croom would be the new radio column editor for the newsletter.

In professional announcements, Chair Leonard Charles had received a call from G&G Technologies, who manufacture surge protectors. They will be involved in the program at this months SBE meeting at the Rockford Chapter on October 27th and invite anyone interested to attend. Leonard Charles also announced a job opening for a maintenance engineer at Northwest Productions located in Minneapolis. If you are interested call Bill Sherwood at (612) 835-4455. Tom Weeden announced an opening for a part-time master control operator, call or send a resume to WMTV.

After the meeting was adjourned, Steve Zimmerman introduced Dan Takkunen of Todd Communications, and Dick Lawrence of ComLux, Inc., who gave a presentation on digital fiber optic networks.

Secretary, Kerry Maki



Chapter 24 BBS
608-277-5239
Chris Cain, Sysop

Leonard Charles is the editor for the Electronic Version of this Newsletter that is available on the Chapter 24 BBS.

AMATEUR RADIO NEWS

By Tom Weeden, WJ9H

● A Madison ham radio operator has published results of tests he has done on the new Rayovac "Renewal" rechargeable alkaline batteries. Dave Mullenix, N9LTD, ran a set of 4 AA cells through constant-load discharges to test Rayovac's claim of being able to recharge the cells 25 times.

Under a 460 mA load, which simulates a hand-held radio transmitting on low power, Mullenix timed the cells at 195 minutes for the first two cycles. After that, the batteries' capacity dropped to 139 minutes on cycle 5, 100 minutes on the 10th discharge, 80 minutes on the 15th, 65 minutes on the 20th, and only 52 minutes on the 25th cycle.

Under the same load, different brands of standard alkaline cells lasted between 230-260 minutes. Mullenix reports that Rayovac's rechargeable alkalines run about twice the price of top-grade non-rechargeable alkalines, but only one-half to one-third the price of premium NiCad cells.

● The FCC has ordered Amateur Radio Supply of Seattle to pay a \$5600 fine for offering to modify an amateur radio transceiver it sells to be able to transmit in the Private Land Mobile and Marine Radio Services. Most current ham transceivers can be modified to transmit out-of-band, but this capability is supposed to be limited to hams who are also members of the Civil Air Patrol or Military Affiliate Radio Service. The FCC requires transmitters for other two-way radio services to be type accepted for those services.

● FM broadcast station KXLL is trying to get around strict "beautification" rules in the town of Paradise Valley, AZ, by proposing to disguise its tower and antenna as a saguaro cactus. Paradise Valley is a bedroom community north of Phoenix that does not allow commercial operations of any kind. The town's most distinguished citizen is former US Senator Barry Goldwater, K7UGA. Goldwater has a collection of amateur radio antennas at his home which presumably are not subject to the town's "beautification" rules.

Radio News

By Mark Croom, WNBC-FM

RDS Progress

US broadcasters are slowly climbing on the RDS/RBDS (Radio Data System/Radio Broadcast Data System) bandwagon, although many in the technical community are unfamiliar with the progress being made in the technology.

The present data rate standard is 1.2 KBS which is usable but slow in comparison with other data systems now in use. In systems under development, data rates are being improved, with high speed systems now able to reach 16-20 KBS. Such systems are already being sold to consumers in Japan.

At the NAB Radio show this fall, several systems were demonstrated which take advantage of the specification in its present form, although some manufacturers complain that the standard is already outdated.


The National Radio Systems Committee (NRSC) is forming a high speed data subgroup, which is expected to attract developers who are working on 19-20 KBS systems.

European DAB

While in-band on-channel digital broadcasting continues to gather interest here in the US, the Europeans continue to move toward standardization of Eureka-147 for use there. Eureka system specifications were set to be released following action by a joint technical committee of the EBU and the European Technical Standards Union. Sources close to the committee said the specifications were to be released in early October, following a Eureka-147 consortium meeting. Technical committee members were to vote by mid-November on whether to solicit public comment as part of the standardization process.

Amateur Radio News compiled from November 1993 "Smoke Test" (of the Madison Area Repeater Association) and "QST" magazine. Radio News compiled from Radio World.

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Convention News

CHAPTER 47 Los Angeles NEWS
 By Editor, Keith M. Kintner

Update and Review

The 1993 SBE National Convention, held in conjunction with the first ever (and only) NewsTech'93 is now history. The Convention held in Miami September 29 through October 2, 1993 was one of the best (and I have attended all since the first in St. Louis, in 1986). This was our eighth SBE national convention, and another First, the first one where we shared the exhibit floor with another organization.

This was the least controversial SBE convention in recent years. The technical sessions were as good as ever. For the first time, CEUs were granted by the John Wood Community College for the Ennes sessions on Wednesday, as well as the technical sessions. The only drawback was the SBE attendees — we could use more! Even so, attendance was about 15 percent above last year's solo show in San Jose, with over 300 SBE members present. The attendee reception and ham reception were both sponsored, which provided for more enjoyment for participants.

Exhibits

There were nearly 150 exhibitors this year, and over 35,000 square feet of exhibit space. Among the exhibitors were Disney (World and -land), Universal Studios (Florida), and Anheuser-Busch Theme Parks. Some of the new technology, which coincided with our workshops (digital compression, for example), was new equipment to allow transmission of video (with motion) over standard telephone lines, or by cellular phone. These systems make use of digital compression, and lose some detail, especially with high-speed motion. But, they do offer a lower-cost alternative to satellite and ENG trucks with microwave, and permit pictures to be transmitted from virtually anywhere. Next year, with the inclusion of the NAB Radio Show and SMPTE, the exhibit will be the largest ever for a Fall show (my prediction).

Ennes Sessions

With one cancellation, the Ennes sessions were pared back to three morning and four afternoon choices, but all

were well worth the extra day. The sessions included the following topics: Antenna and Transmission Line Measurements; HDTV Modulation and Amplification; Antenna Systems for Broadcasters: Will Digital Change the Rules?; Studio Planning - Progression from Analog to Advanced Television Systems; SBE Bulletin Board Systems; Contract Engineering; and, New Technology in News Gathering.

Board Meeting

The Board Meeting lasted for nearly 6 hours this year. No real controversies to report, just lots of items on the agenda to be reported and discussed. To summarize: the current (and immediate past) board has been working to improve the organization and its services to the membership. Among the new services, the national SBE Bulletin Board, the SBE Bookstore, the SBE Videotape Library, New and improved Study Guides for Certification.

NAB at Member Rate

In addition, with our agreement to provide training sessions at NAB, SBE members may now attend the NAB Convention (Spring) at the NAB MEMBER RATE. It is official, and on the registration form. [Chapter 24 members can contact Chair Leonard Charles for NAB registration forms.]

International

For the first time ever, the SBE sessions featured a section in Spanish, moderated by Sergio Beristain of AMITRA, our affiliated organization from Mexico.

Also in attendance were SBE members/affiliates from Korea, the Philippines, Canada and Australia (perhaps some others, too). SBE is now an internationally-recognized organization.

Membership and Chapter Chair Meetings

The membership meeting and chapter chair meetings were the least controversial I have seen in recent years. Both went very smoothly, and were very positive.

Receptions/Banquet

The Receptions were sponsored this year, and added to the quality of the events. A special thanks to the following sponsors for their support: Grass Valley Group, Andrew Corporation, BAF, MCL Corporation and Microwave Radio.

From The Signal Loop Chapter 26 Chicago

By Mike McCarthy

Banquet Address

[The Executive Vice President of the National Association of Broadcasters (NAB), John Abel, delivered the keynote address at the Convention's Awards Banquet.]


Abel focused on the engineer beyond the 90's and what he/she will need to know to remain competitive and part of the dynamic management team that will operate broadcast facilities next year and into the next century. From pos-

Continued on next page

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sessing a much higher level of computer literacy, to a mastering of managerial skills, the engineer of tomorrow, and occasionally today, will be relied upon as a technical resource person.

He will no longer simply fix cart machines and swap tubes. He will actively analyze technologies and their potential impact, negative or positive. Abel's NOW engineer is already prevalent in many major markets and groups. Engineers in smaller or lower positions, whether contract or employed, are facing increasingly steep inclines of advancement, let alone trying to maintain their current position.

Should they falter, they will likely be squeezed out of the industry by forces beyond their control. Contrary to popular belief, there is interest in advanced technologies in small markets. Continuing education is becoming more a necessity than a decision made lightly.

National SBE Board Meeting

The SBE will have a balanced budget next year. Good news . . . no dues increase! The agreement with the NAB runs eight years. The SBE will continue its Spring presence, with the Fall Radio Show presence becoming highly visible. The great news about all this is that each member of the respective contributing organizations may attend the Fall Show at the NAB member rate.

Given the reduced size and SBE commitment to a national convention, this was welcome news. The Rules Committee recommended no new by-laws or modifications and none were considered.

The Certification Committee recommended the adoption of a four letter, professional suffix for engineers who are certified by the Society. The title would be akin to that of any other professional, such as CPA or CAE. [See related National SBE article, "Certification Designations", in this newsletter.] However, this title is a Society-based title and not one from a state professional regulating agency.


For contract engineers, the national office is going to explore if it can offer general liability insurance at reduced rates to members. There is a great deal of interest in this area, but only a few engineers have been able to get insurance due to the unique nature of the business.

In response to the increasing number of unqualified operators working at stations around the country, the Certification Committee is in the final stages of preparing a Radio Operators Handbook. It is designed to replace the Third-Class Radiotelephone License Study Guide as an entry level book. There was some discussion, including input from Chicago, about how any type of operator certification and examination program would be administered at the chapter level.

As this was the first I had heard of the program, I advised the National SBE Board that many chapters, including Chicago, are not currently prepared to accept the burden of testing several hundred potential entry level operators. I was not alone in that opinion, so the board opted to pursue publication first and follow up with a clearly defined plan to administer a Certified Radio Operator examination.

As for the rest of the convention, it was smaller than expected. The RTNDA/SBE exhibit floor was dominated by ENG and news related products. There was virtually no radio presence. Most exhibitors were combination radio/TV or heavily oriented toward TV.

The seminars were enlightening. Of particular note was Dane Ericksen and SBE Counsel Chris Imlay chastising the FAA for using a flawed computer program model in determining potential interference hazards and the closed process by which the models are developed. The FAA definitely operates by a different set of standards than the FCC. Broadcasters get to comment on virtually everything the FCC proposes. Not so with the FAA.



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SBE National News

● At the Board meeting September 29 in Miami, the Board voted on nomenclature to be used for the SBE certification designations.

These are intended to be used after a certified individual's name on correspondence, business cards, etc. to recognize the individual's achievement and further promote the certification program.

The Certification Committee and the Board spent several months developing a list that would best represent and identify the Broadcast Engineer and his or her designation.

The terminology adopted is as follows:

- Certified Broadcast Technologist CBT
- Certified Broadcast Radio Engineer CBRE
- Certified Broadcast TV Engineer CBTE
- Certified Senior Radio Engineer CSRE
- Certified Senior TV Engineer CSTE
- Certified Professional Broadcast Engineer CPBE

● The By-laws of the Ennes Scholarship Trust were amended to allow the Trust to further its work through other educational activities in addition to scholarships. Some of the ideas of programs mentioned were workshops, publishing and exchange programs.

Three Trustees of the Ennes Scholarship Trust were elected by the SBE Board: Doug Garlinger, LeSea Broadcasting and member of Chapter 25 in Indianapolis, Indiana which founded the Ennes Trust, Fred Baumgartner, KDVR-TV 31 in Denver, Colorado and Bob Goza, KMOV in St. Louis, Missouri.

● Early estimates for projected financial results of the 1993 Convention in Miami Beach are that SBE may well lose in excess of \$25,000, due to lower than projected booth sales. This is in spite of a 15% increase in attendance. Given the new relationship with NAB, RTNDA and SMPTE regarding the new fall show, SBE will no longer have exhibit hall responsibilities.

The expected shortfall will be covered by a reduction in SBE expenses. No reduction in member services or dues increase is foreseen.

SBE Members Named to Joint Engineering Conference Committee

By John L. Poray, CAE
Executive Director, SBE

Chuck Kelly, Jr., President of the Society of Broadcast Engineers, announced (on October 1, 1993) five members of the Society who will serve on a joint Engineering Conference Committee with the National Association of Broadcasters (NAB). The Committee has the responsibility of planning education sessions for the 1994 Conference in Los Angeles, October 12-15.

Committee members include: Marvin Born, Vice President of Engineering, WBNS Stations, Columbus, Ohio; David Carr, Chief Engineer, KHOU-TV, Houston, Texas; Dane Ericksen, Senior Engineer, Hammett & Edison, Inc., San Francisco, California; Douglas Garlinger, Director of Engineering, LeSea Broadcasting, Noblesville, Indiana; and Jerry Whitaker, Technical Writer, Beaverton, Oregon.

The SBE Engineering Conference attracts engineers in radio, television, cable, post-production and other broadcast related fields from all over the United States and around the world. Sessions cover the latest in technology, regulatory issues and include workshops by manufacturers of broadcast equipment.

(From the CHAPTER 47 Los Angeles NEWS)

BBS On-Line

Thanks to the work of a number of SBE members, the National Office now has its own BBS. The computer bulletin board is located at the Society of Broadcast Engineers headquarters in Indianapolis, Indiana. The number is (317) 253-7555. It supports 300-9600 bps, 8 N1, and connects to MediaNet, BPCNet, and the SBEECHO internationally through Internet. The BBS system operators (Sysops) are Charlie Sears, Jim Bernier, Terry Baun, Bob Goza and Gerry Dalton.

In addition to normal message use, SBE will be utilizing the BBS for various publications and services to members. When all set-up is complete, SBE members will be able to access member applications, certification information, the Job Line, newsletter articles and other information.

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Please list the topics and speaker ideas for future SBE Engineering Conferences. Responses will be shared with the Conference Committee to assist them in developing sessions responsive to the needs of our members. Please list your topic ideas, even if you have no speaker idea to include.

RADIO TOPICS

SPEAKERS

CONTRACT ENGINEER TOPICS

SPEAKERS

TV TOPICS

SPEAKERS

REGULATORY TOPICS

SPEAKERS

POST PRODUCTION TOPICS

SPEAKERS

SATELLITE TOPICS

SPEAKERS

CABLE TOPICS

SPEAKERS

OTHER TOPICS

SPEAKERS

BROADCAST ENGINEER: What does this mean to you? To us, it means a person capable of performing a wide variety of support, maintenance, and integration tasks in an unusual and often changing video environment. It means a person who has five or more years of experience practicing these skills at the TV station or post production level. It means a person who is interested in new technologies, new techniques and new opportunities. It may mean you.


Dynatech Digital Storage Systems, the premiere manufacturer of digitally stored commercial playback equipment, is looking for a broadcast engineer who combines these skills with the ability to deal very well with people. The person we want will be responsible for a wide variety of installation and support issues on this new and innovative product. If this person sounds like you, please fax your resume and salary history to: Effective Engineering, Attention: Grant Knox, at 818-841-4389. Dynatech Digital Storage Systems is an equal opportunity employer.

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Broadcasters Clinic is this Month!!!

The University of Wisconsin, Madison, will hold its 39th annual Broadcasters Clinic Tuesday, November 9 through Thursday, November 11 at the Holiday Inn Southeast in Madison.

Topics to be covered include digital editing systems for radio and television, advancements in radio technology, Sony's pro MiniDisc, management's perception of engineers, digital audio compression, DAB developments, transient voltage surge protection, D-HDTV antenna considerations, tower regulations and procedures, computer applications for broadcast, ad-

vanced television systems, hybrid directional couplers, DCT systems and the 3Cs of of transmission.

The Clinic includes two presentations by Chapter 24 members:
Uplinking-Analog to Digital
Phil Mikalofsky, Chief Engineer
ECB Satellite Systems

TDR-FDR-line pulsing-sweeping
What is it? What do I need?
James M. Crooks, President
Broadcast Communications

The Clinic will also have over 35 exhibitors.

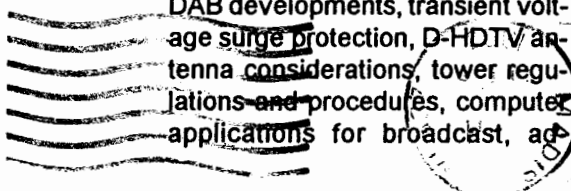
The fee for the seminar is \$150 for all three days or \$115 for any combination of two days. To register by phone or to get a form for mail-in registration, contact the University of Wisconsin at 608-262-2451, or FAX 608-262-8516.

SBE members can earn recertification points for attending the 1993 Broadcasters Clinic.

For further conference or exhibitor information, contact Don Borchert, 1955 Oakland Avenue, Sun Prairie, Wisconsin 53590 or phone 608-837-3462.
(Excerpts from Radio World)

Broadcasters Clinic Scholarship Awarded

Congratulations to Tom Weeden of WMTV Channel 15 in Madison as the recipient of the latest scholarship offered by Chapter 24. This scholarship will allow Tom to attend any combination of two days during the three-day Broadcasters Clinic taking place in Madison November 9th through the 11th.



SBE

SBE Chapter 24 Newsletter
3538 Concord Avenue
Madison, WI 53714-1237

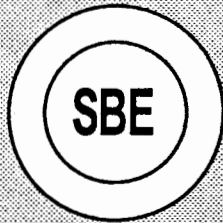


FIRST CLASS MAIL

1

Tom Weeden
6802 Putnam Road
Madison, WI 53711-3959

NOVEMBER MEETING and PROGRAM



Society of Broadcast Engineers CHAPTER 24 MADISON, WISCONSIN Wednesday, November 10, 1993

Society of Broadcast Engineers Upper Midwest Regional Conference Presents

ALL-CHAPTER NATIONAL TELECONFERENCE

Regional chapter meeting at 7:00 P.M.
Teleconference begins at 7:30 P.M. Social at 8:30 P.M.

Holiday Inn Southeast, I-90 & Hwy 12/18
(C-band Satellite: ASC1, transponder 10V, 128 degrees West)

Featured panelists include SBE National President Chuck Kelly,
SBE National Vice-President Terry Baun,
Executive Director John Poray, and SBE Counsel Chris Imlay
Moderated by Chapter 24 Chair Leonard Charles

SBE chapters nationwide will be tuning in via satellite to participate in this national teleconference and will have the opportunity to phone in their questions and concerns to the panelists.

Services provided by MRC Telecommunications, terrestrial path; TELEPORT CHICAGO, uplink facilities; GLOBAL ACCESS, satellite time; TELEPORT MINNESOTA, satellite coordination.

Teleconference and regional meeting is being held in conjunction with the 1993 Broadcasters Clinic.

1993 - 1994 MEETING/PROGRAM DATES

<u>Date</u>	<u>Topic</u>	<u>Location of Meeting / Dinner</u>	<u>Presenter</u>
Dec. 16, '93	Thurs. Research, Development, and Implementation of PC-based Audio and Newsroom Automation	WKOW / CJ's Westgate	Dan Maney
Jan. 18, '94	Tues. Antenna Change Out	WMTV / T.B.A.	Rich Wood
Feb. 23, '94	Wed. Telephone Equip. for Broadcasters	WISC / Shakey's West	Stan Sarch
Mar. 31, '94	Thurs. NAB Review	Brat & Brau / Same	Members
Apr. 26, '94	Tues. Elections and Vender Program	Brat & Brau / Same	Roscor
May 25, '94	Wed. Advanced Electronics	UW Hospital? / T.B.A.	T.B.A.

Program Committee:	Mark Croom 271-1150	Kerry Maki 833-0047	Denise Maney 277-8001	Steve Zimmerman 274-1234
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