



Society of Broadcast Engineers

September 1993

SBE and NAB Reach Agreement

From Richard Farquhar
SBE President

During our April 20 SBE Membership Meeting in Las Vegas, I announced that the NAB had approached SBE with a proposal that would involve the Society in presenting engineering conferences in conjunction with NAB.

After many months of negotiation, I am now happy to announce that an agreement has been reached between SBE and NAB. This is an agreement that will provide SBE a tremendous opportunity to present our own SBE Engineering Conference to a much wider audience, while increasing the stature of our organization.

Beginning in October, 1994, SBE will participate in a new event that will include the conferences of SBE, RTNDA, SMPTE, and the NAB Radio Show. These conferences will run concurrently and be centered around a large exhibition that will include all aspects of the broadcast engineering industry. NAB will manage the exhibition.

In addition, beginning in 1995, SBE will have an expanded role at the NAB Spring Convention in Las Vegas. SBE will work with NAB to produce the entire Engineering Conference, rather than the single "SBE DAY" that has been so successful the past two years.

The net result is that SBE will be able to concentrate on what it does best: EDUCATION; we will be out of the exhibit sales business but will still provide our members with excellent trade shows to examine the latest technology.

The first combined event will be October 12-15, 1994, at the Los Angeles Convention Center. It will provide an outstanding opportunity for SBE members to increase their knowledge, stay up with changes in technology and meet with peers. I urge all SBE members to reserve the dates and plan to attend.

Right In Our Backyards

By Don Sanford

I knew it was time to replace our dimmer boards about four years ago. Fader pots needed continual cleaning, lights would sometimes go on and off by themselves.

The market was crowded with a number of manufacturers producing computer-based dimmer boards. Who did we choose as our vendor?

The choice was simple. We chose a Wisconsin company that is one of the largest manufacturers of lighting control and dimming equipment in the country. A company located between the bakery and the miniature golf course in Middleton.

When our studio facility was built in the mid-1970's, remote dimming and preset lighting control boards were the state-of-the-art. If you were building a theatre or large television studio, it was something you had to have.

With 90 dimmers controlled by five preset scenes, we had everything a lighting designer could need or ask for. Lighting for several sets could be preset. Creating complex lighting cues was easy. Maintaining the mechanical side of the equipment was a project that we constantly tended to.

Computer dimmer boards were available in all shapes and sizes, but most were built for theatrical applications. In the theatre, once the show is cued, it gets repeated time after time with great regularity.

Television, particularly the kind we do at Wisconsin Public Television, is not that way. Shows come

Continued on Page 6, Dimmers

SEPTEMBER MEETING

Thursday, September 16

DINNER: Lums Family
Restaurant
6602 Odana Road

MEETING (7:00 p.m.) &
PROGRAM (7:30 p.m.)
at

Dynatech NewStar
6400 Enterprise Lane
(see insert for details)

How to Save Lives of General Manager & Chief Engineer at Transmitter Sites

From the Texas Association of Broadcasters

The Texas Association of Broadcasters (TAB) is offering the Safety Pen that detects dangerous AC voltages and RF fields in the AM spectrum.

TAB is the first state association to offer a Safety Tape and Pen to promote engineering safety. TAB and Clear Channel Communication's KPEZ chief engineer Gil Garcia launched a unique broadcasting industry safety program at the TAB annual convention Oct. 17-19 in Austin.

The Safety Pin has already saved one engineer's life.

A consultant engineer in Gonzales, Texas testified that the pen has already
Continued on Page 7, Safety Pin

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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

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Denise Maney	277-8001
Kerry Maki	833-0047
Steve Zimmerman	274-1234

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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

work 608-263-2174
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Chapter Liaison: Steve Peck 608-246-9797

National SBE Liaison:

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

AMATEUR RADIO NEWS by Tom Weeden, WJ9H

● New FCC rules will take effect soon which will change the wording in the section prohibiting business communications via amateur radio. The "no business" language is being dropped and replaced with a prohibition on communications for compensation, on behalf of one's employer, or in which the amateur has a pecuniary interest. Recent arguments over whether certain types of communications are appropriate have developed because of different interpretations of the old rule. The classic example of "ordering a pizza" via phone patch was thought by some to be illegal because the communication would have facilitated the business affairs of the pizza parlor. The new wording is hoped to move the focus from content of the communication to whether the amateur (or his or her employer) stands to benefit financially. The new rule also says that if a need arises on a regular basis, and for which other communications services are reasonably available, it should NOT be met by amateur radio. (QST magazine reports that as far as the FCC is concerned, you CAN now occasionally order a pizza on the local repeater's autopatch, although some repeater trustees will continue to hold tighter standards on content.)

● The FCC in late August issued a declaratory ruling which pre-empts certain local and state laws prohibiting possession of amateur radio transceivers in vehicles which can receive public service frequencies. The American Radio Relay League (ARRL) asked for the ruling because some amateurs were unknowingly violating local laws merely by having a radio in their vehicle which had extended receive capability. Some states and municipalities have presumably been enacting laws against persons monitoring police communications from vehicles. The FCC's ruling pre-empts such laws for properly licensed amateur radio operators.

● The jury is still out on last month's Perseids meteor shower rating, as far as its performance for VHF propagation is concerned. North American hams have not reported any outstanding results, although some packet-radio bulletins said that Europeans seemed to catch the peak of the meteor shower. One bulletin on the packet network which came out just before the Perseids occurred said that most astronomers had been mistaken about their predictions of the severity of the shower...the actual meteor storm will allegedly occur on the Earth's NEXT orbit around the Sun, in August 1994. We'll see.

(From September 1993 QST magazine and packet radio reports)

SBE CHAPTER OF THE AIR: HamNet meets the second Sunday of each month at 0000 GMT on 14.205 MHz. Hal Hostetter WA7BGX is the Control Station.

RADIO.... by Stan Sarch

● DAB systems testing that was to begin next month has now been delayed until December 31. USA digital is not ready and all parties have agreed to the delay.

● The FCC proposes to reinstate the three year trafficking rule that requires broadcast licensees to operate for three years before they become eligible to transfer them.

● Congress is debating revival of the Fairness Doctrine. The RTNDA and others say that it may hurt a stations first amendment rights and profits. The doctrine is expected to have a clear path to enactment under the Clinton administration.

(Excerpts from Radio World)

August Business Meeting Minutes

Chapter 24 of the Society of Broadcast Engineers met on Wednesday, August 18, 1993, at the WMSN-TV 47 studio in Madison. 19 SBE members attended, 14 who were certified, and 4 guests, for a total of 23.

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 August 31, with the folding session set for August 8th.

Membership Chair Leonard Charles reported a current membership of 64. The Chapter lost 13 members due to non-renewal. Currently there are 79 complimentary and 10 special newsletter mailings.

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. Next months program will involve machine control and will be at Newstar. Tonights program is a panel discussion: "A Historical Perspective in Broadcasting", which Dennis Behr was instrumental in developing.

A need for volunteers to staff the Chapter 24 booth at the Broadcasters Clinic was expressed by Special Events Chair Kevin Ruppert. He also noted the committee is looking in particular for tube power amplifiers to display.

Certification Chair Jim Hermanson was unable to attend, but wanted to let everyone know the application deadline for the local November 5-15 certification exam is September 10, 1993.

The next exam session will be next year. Frequency Coordinator Tom Smith has been working with Chapter 28 of Milwaukee to coordinate frequency coordination boundaries. Tom also continues to receive wireless mic requests.

Chair Leonard Charles updated Chapter 24 members on the SBE National's financial status. Ballots for the SBE National Election would begin to be mailed out by August 20, 1993.

Work is progressing for the SBE Regional Uplink from the Broadcasters Clinic this November. The program will be a panel discussion consisting of National SBE Officers.

Satellite time will be provided by Global Access on transponder 10v on ASC 1, 128 degrees West; satellite coordination is provided by Minnesota Teleport; and uplink facilities provided by MRC Telecommunications.

In old business, Chair Leonard Charles said the first notices to the Broadcasters Clinic have been mailed. Chapter 24 will be giving a scholarship to the 1993 Broadcasters Clinic. The scholarship application deadline is October 15, 1993.

In professional announcements, Chair Leonard Charles noted there is an opening for a Chief Engineer at WTOS-AM/WZEE-FM in Madison.

Kerry Maki announced Carolyn Shaffer has joined the WMSN-TV Engineering staff as a master control operator.

The meeting adjourned at 7:30 p.m.

The program for the evening was a "A Historical Perspective of Broadcasting", a panel discussion, featuring life-long broadcasters, Edward Furstenburg, Herb Jordan, Jack Stiehl, Tony Moe and Jesse Nickels.

Secretary, Kerry Maki

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

FCC REDUCES SOME FINES

The FCC has reduced the dollar figures of 17 fines in a newly released FCC fine schedule that includes top base fines of \$20,000. (The FCC has the authority to levy fines up to \$25,000 per violation.) Acting Chairman James Quello has said that some fines were too high, although, in the late 1980's, he has supported fine levels that had some teeth in them.

The new fine levels are:

Violation	Old Fine	New Fine
Exceeding power limits	\$12,500	\$10,000
Failure to respond to FCC communication	17,500	10,000
Unauthorized emissions	12,500	10,000
Using unauthorized frequency	12,500	10,000
Improper EBS equipment	12,500	10,000
Failure to light and mark towers properly	20,000	8,000
Failure to maintain public files	7,500	5,000
Use of unauthorized equipment	10,000	5,000
Unauthorized discontinuance of operation	10,000	5,000
Use of unauthorized location	10,000	5,000
Failure to file information	7,500	5,000
Failure to ID sponsors	6,250	5,000
Violation of lottery rules	6,250	5,000
Failure to ID station	2,500	1,250
Unauthorized pro forma transfer of control	2,500	1,250
Failure to maintain records	2,500	1,250
Assorted minor violations	1,250	625

Depending on the violations, these fines can be adjusted up or down by the commission for a number of reasons and should be considered the base level. The FCC is considering changes for equal employment opportunity violations. Fines for 23 other violations remain the same.

NEW FEES FOR BROADCASTERS

Parts of the budget bill recently passed into law contain provisions for the collection of annual fees from the industries regulated by the FCC. These fees will raise a total of 82 million dollars including 18 million from broadcasters, 20 million from cable, 25 million from telephone and common carriers, and 19 million from private radio users.

These annual fees added to the existing application fees which total \$45 million will nearly cover the FCC's operating budget of \$130 million. Also included in the budget bill is a provision that will allow the FCC to auction 200 mhz of government spectrum to commercial non-broadcast users. This will raise 7 billion dollars.

The bill will also allow for an amortization deduction for certain intangibles. This should help to lower some broadcasters tax bill's.

The new fees will affect AM Stations: Class D Daytime \$250; Class A Fulltime \$900; Class B Fulltime \$500; Class C Fulltime \$200; Construction permits \$100.

FM Stations: Classes C,C1,C2,B \$900; Classes A,B1,C1 \$600; Construction permits \$500.

VHF Stations: Markets 1 thru 10 \$18,000; Markets 11 thru 25 \$16,000; Markets 26 thru 50 \$12,000; Markets 51 thru 100 \$8,000; Remaining markets \$5,000; Construction permits \$4,000.

UHF TV Stations: Markets 1 thru 10 \$14,400; Markets 11 thru 25 \$12,800; Markets 26 thru 50 \$9,600; Markets 51 thru 100 \$6,400; Remaining markets \$4,000; Construction permits \$3,200.

Low Power TV, TV Translator, and TV Booster \$135

Broadcast Auxiliary \$25

CABLE: Cable Systems (per 1000 subscribers) \$370; Cable Antenna Relay Service \$220

TELEPHONE (all are per 1000 subscribers): Cellular \$60; Personal Communication Service \$60; Local Telephone \$60; Long Distance Service \$60; Competitive Access Provider \$60.

SATELLITE: Geosynchronous (per satellite) \$65,000; Low-Earth Orbit (per satellite) \$90,000.

EARTH STATIONS: 9 meters or more, transmit (per meter) \$85; 9 METERS or more, receive only (per meter) \$55; Less than 9 meters (per 100 antennas) \$6; VSAT (per 100 antennas) \$6; Mobile satellite \$6.

NAB President Eddie Fritts may challenge the new yearly fees in court if broadcasters are unable to convince Congress to either repeal or reduce the fees. The NAB executive committee was surprised that Fritts mentioned legal action since there is strong dislike for the fees. Joint Board Chairman Wayne Vriesman stated that it is unlikely that the fees could be overturned completely, but hopes that the fees could be changed to lessen the pain to broadcasters, many who already have financial problems.

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Fifth Network?

Warner Brothers and Time Warner along with former Fox Broadcasting head Jamie Kellner proposed to a group of broadcasters a plan to form a fifth commercial network. They said they were prepared to spend \$2 billion on the project. Paramount Studios may also be asked to join in the venture. There has been talk of Paramount starting a network in the last few months.

Because of rule changes pertaining to program syndication and ownership by the big three networks, Warner Brothers considers this a way to protect itself in dealing with the big three. For Time Warner, it is a way to insure product for HBO and its other cable nets.

In order to reach the majority of homes, the new network would need a combination of broadcast and cable outlets.

(The information on this page was compiled from Broadcasting & Cable magazine by Tom Smith.)

BROADCASTERS CLINIC SCHOLARSHIP

Chapter 24 is offering one scholarship consisting of any two days of the three day Broadcasters Clinic taking place November 9, 10 and 11 in Madison. The scholarship will be awarded on the basis of the following criteria and maximum number of points accumulated:

- 1) Must be a current member of Chapter 24
- 2) Attendance at 6 of the 12 meetings prior to the October 15th application deadline
- 3) Employment in or a student of a broadcast related field
- 4) Must have SBE National dues paid for the current year


Points will be assigned as follows:

- a) 5 points for each month applicant has at least one article published in the Chapter 24 newsletter spanning the 12 issues prior to the October 15th application deadline
- b) 5 points for certification, any level
- c) 2 points for each monthly meeting attended in excess of the 6 required

In the case of a tie, final selection will be by the elected officers of Chapter 24 or by a committee appointed by those officers, excluding any whom may have applied. If more than one applicant, an alternate will also be selected based on the second highest number of points. The scholarship winner will be required to write a summary article to be published in the chapter newsletter.

Applications should be in the form of a letter which is signed, dated and received no later than October 15, 1993 by Fred Sperry at the following address:

Wisconsin Public Television, TOC
3319 W. Beltline Hwy.
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Wednesday, November 10, 1993
7:30 P.M.

Featured Panelists include:
SBE National President
SBE National Vice-President
SBE Exec. Director - John Poray
SBE Counsel - Chris Imlay

SBE members nationwide are invited to tune in via satellite. Members will have the opportunity to phone in their questions and concerns to the featured panelists.

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Dimmers In Our Backyard

Continued from Page 1

and go. Many are in the studio once or twice. Manual control of a great many dimmers is a must since lights need to be tweaked a bit to compensate for a bald head, light suit or whatever.

I had met Fred Foster when he was a student at the UW back in the '70's and was aware of his company, ETC, in Middleton. I knew that ETC was making all kinds of new dimming products, but it wasn't until I sat down with one of his sales force that I saw the full picture.

In *Business* magazine recently ran an article which profiles Fred and his company, if you want more background. It's an impressive company with nifty products.

ETC was developing a new board, the Insight, at that time. The *insight* is available in various configurations. Each featured plenty of manual control. One of them would be just perfect for our application.

After settling on the board which would work for us, initial budget figures were developed, and the replacement dollars were rolled into our budget. Our purchase date would be a year or two away. (We're talking grants and limited University funds here.)

Once the funding was approved, we set about the process of designing the system. The system here means controls for houselights, constant and non-dim circuits, as well as fail-safe patching system to allow control of lights in either of our two studios from any one of four locations. Initially, the project managers at ETC reviewed our proposals and provided us with feedback to help fine tune our planning. Once the funding was approved and the bidding process completed, another player entered the scene. Mainstage Theatrical Supply in Milwaukee is their area dealer and installer. The Mainstage folks took over and provided the complete turn-key installation project.

About four months before the projected installation date, we began doing some serious planning. I knew that we would have only about a week to install the new consoles. Details were fine tuned, schedules set up.

There would not be time to fool

around designing cabinet work during our installation window, so we created a mock-up of the control room out of some old flats, a table or two and our universal material, cardboard. (I could tell a story about remodeling a production control room with cardboard, but that's another story.)

The first console hadn't even arrived yet, so we made a mock-up out of cardboard. A couple of afternoons spent with a utility knife and some masking tape yielded a workable design for the furniture and our Scenic Designer, John Glaeser, (who doubles as our house cabinet maker) started building that part of the project.

The first console did arrive in house a month before the installation was due to start to allow us time to learn the equipment.

About two weeks before installation day, electricians ran some new house light circuits. New control cables were pulled by our engineering staff. Our old lighting consoles were so big that they had to be sawn up to get out of the room.

With the old equipment out of the way, the new cabinet work was moved in. The new dimmer consoles arrived, right on schedule, and the staff from Mainstage rolled in and began the three day task of connecting the boards to our dimmers.

We were up and running right on schedule. Mainstage has provided us with on-site training, and the folks from ETC are about two miles away in case we ever need anything.

All this from a little company just around the corner in a building without a sign. You'd never know they were there unless you knocked on the door, unless, of course, you asked someone at Disney World, ABC-TV, the Madison Civic Center or one of hundreds of other studios where the best dimmers and lighting control boards are made today. Right in our backyards.

(Don Sanford is Production Manager at Wisconsin Public Television and former president of ITVA Madison.)



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From the Editor:

- In August, SBE Chapter 24 purchased Pagemaker 5.0, a desktop publishing computer software package (DOS version). The September 1993 Chapter 24 Newsletter was put together using the new software. Pagemaker 5.0 has some major user improvements over its predecessor 4.0, but the overall look of the newsletter will remain the same except for a few subtle changes. The software package is licensed to Newsletter Editor, SBE Chapter 24.
- The special pre-registration price has been extended through September 17 for those planning to attend the SBE ENGINEERING CONFERENCE & NEWSTECH '93, September 29 - October 2, in Miami Beach, Florida.
- Completed SBE National Election ballots are to be returned to the National Office by September 22.
- SBE, ITVA, and ITCA Chapters in the Midwest are encouraged to send their upcoming meeting announcements and articles to the Chapter 24 Newsletter for publication. The deadline for articles is the first Wednesday of each month. Guests are always welcome at SBE Chapter 24 meetings.

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News From Other Chapters

From Chapter 43 (Sacramento) Newsletter for August 1993:

● Mike Farrell, 3M, showed how much more information is being put on video tape (especially digital) as tracks get narrower, guard bands disappear, and things that cause dropouts can be smaller and smaller.

Digital formats shuffle data so that a dropout won't blow a big hole in the data and make error correction harder, compromises are made in oxide coatings between audio and video (audio goes deeper physically because of the longer wavelength) including "dual coating;" the coating itself is 2 to 4% aluminum oxide (as in sandpaper) for head cleaning; head cleaning tapes are 20 to 24% aluminum oxide; the biggest problem with cleanliness is external debris (vacuum out your transport regularly and change tapes in the field in a clean environment - like a bag).

● A note from FCC Agent Amy Freundlich in the San Francisco office. She says "I received a call from a cellular telephone sales and service company in Sacramento. They indicated that several Sacramento TV stations want to use cellular phones on helicopters to file their reports."

"Maybe you could advise broadcasters in your newsletter that it is a violation of FCC rules to use cellular phones in airborne aircraft."

She enclosed report number DC-1213, CC Docket 88-411, entitled "FCC Prohibits Use of Airborne Cellular Units; Allows Use of Cell Enhancers." (You can talk to Agent Amy at 510-732-9046.)

From SBE Chapter 16, Seattle, Clay Freinwald, 206-343-9700

● The FCC is backing away from the idea that should they find a tower with burnt out light bulbs or faded paint stripes, that every licensee whose antennas are affixed to the structure should endure the full wrath of the government. Apparently the laws have now been changed that will permit the FCC to fine the OWNERS OF THE TOWER.

Safety Pin

Continued from Page 1

saved his life by alerting him to a previously unknown power source leading to the transmitter. After turning off the breakers at the transmitter site (instead of opening the transmitter door), he checked the site with the Safety Pen and found another line that led to another breaker.

Garcia and several members of the Austin chapter of the Society of Broadcast Engineers teamed up with TAB to produce a safety videotape aimed at alerting chief engineers and general managers about hazards at the transmitter site.

The tape focuses on the hazards of electrocution, RF radiation, weather conditions and security.

Engineers appreciate the tape's emphasis about having someone with them when working at the transmitter site. Garcia encourages general managers and their chief engineers to see the Safety Tape before going to the transmitter site. The videotape alerts viewers to some of the hidden dangers at the site.

The videotape is available at a nominal fee along with the TAB Safety Pen. The pen lights up when it detects electromagnetic fields as a warning.

The UL-approved, plastic insulated pen verifies that power is turned off at the transmitter site and acts as a guide to find a breaker that has not been turned off.

Garcia uses his pen, much like any other tool, every day. After an explosion charred wires in a plug beyond recognition, Garcia used the pen to determine hot from neutral wires to reconnect the plug. Another day he used the pen to find a loose ground in a cable line stretching 200 feet from the antenna to an AM transmitter site.

The TAB Safety Pen carries a lifetime warranty.

The death of Ivan Fajkus, general manager of KVLG/KBUK in LaGrange, in July, 1992, spurred the effort. Fajkus was electrocuted working on the station's transmitter.

The Lower Colorado River Authority, Houston Lighting & Power and Texas Utilities are helping underwrite costs of the tape.

Garcia recently produced a video with Continental Electronics showing engineers how to install, maintain and repair 8616 R Series transmitters. He has worked in broadcasting for more than 28 years and is a SBE Certified PBE.

Contact the Texas Association of Broadcasters at (512) 322-9944 or your state association to find out more about the Safety Tape and Pen.

LOCAL LEGALS

Compiled by Tom Smith

Action:

WTOQ(AM)/WKPL(FM) Platteville, WI, 1590 kHz, 1kW daytime, 500 W night, 107.1 Mhz, 3kW ERP at 235 feet granted transfer of control to Shirley Kramer of Kramer Broadcasting of Platteville, Inc. as part of a divorce settlement. Action June 30.

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WMTV

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Volunteers Needed for SBE National Teleconference

Local Madison Chapter 24 of the Society of Broadcast Engineers is planning to produce an hour-long National Teleconference live from the Holiday Inn Southeast here in Madison during the Broadcasters Clinic 1993.

To produce this teleconference, Chapter 24 has been recruiting volunteers for both personnel and equipment.

At this time, Chapter 24 has secured a video operator, a Grass Valley 200 technical director, an audio operator, three camera operators, a production truck, a satellite transponder and a satellite C-band uplink.

Positions that still need to be filled include: producer, production assistant, lighting director, floor manager and Chyron 4100 operator. Because Wednesday's sessions run until 5:00 p.m., set-up time for the teleconference has to be done in less than two

hours. Much help is needed for pulling camera, video and audio cables and set-up of cameras and lighting equipment. Help is also needed to strike the equipment after the teleconference.

SBE and ITVA members from the Midwest area who are interested in volunteering their expertise to this national teleconference are asked to call Leonard Charles at 608-271-4321 or Paul Stoffel at 608-263-2175.

The teleconference is scheduled to begin at 7:30 p.m. on Wednesday, November 10, 1993. The distinguished panelists will include the SBE's National President, Vice President, Counsel Chris Imlay, and Executive Director John Poray.

The format will allow for questions from the floor of the conference room and, via the phone, from Chapters across the country holding their November meeting around a satellite downlink.

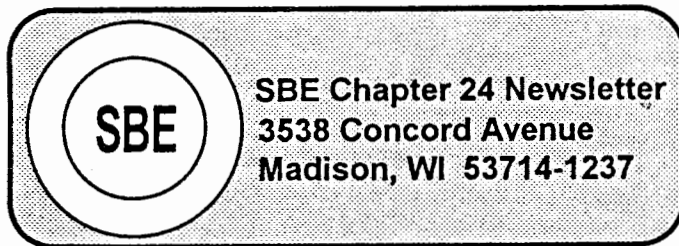
The University of Wisconsin Broadcasters Clinic 1993 and Upper Midwest Regional Society of Broadcast Engineers Conference

November 9-10-11, 1993
Holiday Inn Southeast
Madison, WI

Technical conference topics: Digital Audio, Broadcast Towers, Personal Management, HDTV

"How Does It Work?" topics: Cellular Telephones, Video Dial-tone, A/D Convertors, V-Sats, Hybrid Combiners/Directional Couplers

...and lots more!

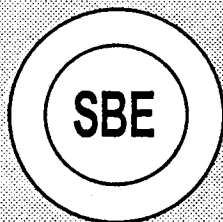


FIRST CLASS MAIL

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SEPTEMBER MEETING and PROGRAM



Society of Broadcast Engineers CHAPTER 24 MADISON, WISCONSIN Thursday, September 16, 1993

5:30 p.m. Dinner at Lums Family Restaurant
6602 Odana Road

7:00 p.m. Business Meeting and 7:30 p.m. Program
at

Dynatech NewStar

6400 Enterprise Lane

PROGRAM: The presenter will be Dan Desjardins of Dynatech NewStar. Dan is a machine control specialist with NewStar, installing, configuring, and training machine control systems in broadcast stations worldwide. He will present methods of machine control via serial data links, and will discuss NewStar's continuing effort to bring equipment manufacturers together to a standard of machine control in the broadcast industry, as well as discuss some of the problems associated with integrating varying systems into a single control environment. Dynatech NewStar is a supplier of computer-based newsroom automation systems.

1993 - 1994 MEETING/PROGRAM DATES

<u>Date</u>	<u>Topic</u>	<u>Location of Meeting / Dinner</u>	<u>Presenter</u>
Oct. 19, '93	Tues. Fiber Optic Communications	WMSN / Shakey's West	Todd Comm.
Nov. 10, '93	Wed. All-Chapters Teleconference	Holiday Inn S.E.	Leonard Charles
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 Scharch
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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