

CHAPTER 24

SOCIETY OF BROADCAST ENGINEERS AN AWARD WINNING NEWSLETTER

MADISON, WISCONSIN

JUNE 1991

MAY 1991 MINUTES

Chapter 24 of the Society of Broadcast Engineers met on Wednesday, May 22, 1991 at Alexander's Restaurant in Madison. The meeting then re-convened at the facilities of WISC-TV for the regular monthly meeting and program. The attendance of the May meeting was 29. 23 were SBE members and 16 of these were SBE certified.

Chairman Jim Hermanson called the meeting to order at 7:03 PM. At this time Jim introduced the slate of recently appointed Chapter 24 Committee Chairs.

Secretary Fred Sperry read the minutes of the April meeting as recorded by past Secretary Tom Weeden. The minutes were approved as read.

Treasurer Paul Stoffel reported the chapter's account balance. He also announced that he regularly checks in with the SBE bulletin board if anyone should need to leave him a message.

Sustaining Membership Chairman Stan Sarch announced that he was making some changes to the existing sustaining membership forms and plans to distribute the new ones shortly. He also announced the renewal of Video Images as a sustaining member.

Program Chairman Dave Willow had no new business to report. At this time Jim Hermanson announced the formation of a new committee appointee by the SBE Officers entitled Special Events Coordinator. This position will work along with the Program Chairman to plan chapter programs and events. Kevin

JUNE MEETING

DATE: June 20, 1991
LUNCH & MEETING: 12:00 P.M.
AT: ALEXANDER'S SNAP SHOTS
5614 Schroeder Rd.

Since this is a lunch meeting, there will be no program. However, several interesting and important items will be discussed at the regular business meeting. Of special note, Chairman Jim Hermanson will be conducting a vote on whether or not to return funds that our chapter recently received from National as our Annual Chapter Rebate. Please try to attend.

Ruppert has been appointed to chair this committee.

Certification and Education Chairman Doug McDonell announced that he expects a record number of 12 people to take the certification exam on June 8th.

Chapter Liaison Paul Meyer was absent from the meeting. Fred Sperry passed along that Paul had contacted the Minneapolis/St. Paul and Rockford, IL SBE Chapters. He has now contacted all the chapters in our area. Paul has also suggested that we send a copy of our newsletter to the chairman of each of these chapters.

Frequency Coordinator Chris Cain announced that there currently was a hold on upgrades of intercity links by the NAB. This is being petitioned by the SBE.

Special Events Coordinator Kevin Ruppert announced that anyone interested in joining the LaCrosse Chapter in a tour of the 3M facility on Thursday evening, May 30th

UPCOMING MEETINGS

July 23
August 21

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LEGAL ACTION

LEGAL NEWS FROM THE FEDERAL COMMUNICATIONS COMMISSION

Info by Doug McDonell

Magnum Communications, Inc. has amended the engineering portion of its application already on file for a new FM station at 95.9MHz in Portage, Wisconsin.

The Commission has upheld a Review Board decision to deny the renewal application of Tri-State Broadcasting Company, Inc. for stations KUKQ-AM and KUPD-FM in Tempe, Arizona.

The Commission also upheld the Board's decision to renew the station's licenses under the application filed by Grimm and Clifford for the stations' facilities.

The Board found Tri-State unqualified to be a Commission licensee on the basis that the company had made misrepresentations and lacked candor before the Commission.

At issue were the circumstances surrounding the acquisition of the stations by Tri-State's owners, John N. Norris, III, and Robert L. Melton. Specifically, after the Commission told Tri-State that it objected to Melton's participation in the operation and ownership of the stations, Tri-State informed the Commission that Melton would not be involved in either ownership or management.

Upholding the Board's findings, the Commission stated that the record fully supported that Tri-State had committed disqualifying misconduct regarding Melton's status at the stations from 1974 to 1978.

Record evidence showed that during this four year period, Tri-State continued to allow Melton to hold a management position and ownership interest, despite their assurance to the Commission that Melton would be excluded from such activities. The Commission agreed with the Board that Tri-State had been de-

ceptive when it acquired the stations.

The FCC has ordered David R. Price to show cause why his license for WOKJ-AM in Jackson, Mississippi should not be revoked and has issued Price a notice of apparent liability for forfeiture of up to \$250,000 for violating Commission rules by failing to light the station's towers, failing to respond to Commission directives, and discontinuing operations without authorization.

In August 1990, the FAA notified

(cont'd pg. 3, col. 2)

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CHAIRMAN:

Jim Hermanson (WTSO/WZEE/
WKOW TV)

W - 274-1234

H - 231-2005

VICE CHAIRMAN:

Leonard Charles (WISC TV)

W - 271-4321

H - 274-0041

SECRETARY:

Fred Sperry (WI Public TV/TOC)

W - 273-5500

H - 833-6074

TREASURER:

Paul Stoffel (WI Public TV)

W - 263-2121

H - 241-4621

CHAPTER 24 COMMITTEE APPOINTEES

Past Chairman - Steve Zimmerman
Membership - John Beck
Sustaining Membership - Stan

Scharch

Strategic Plan - Denny Behr (Chair)

Newsletter - Deanna Morris

Program Chairman - Dave Willow

Special Events - Kevin Ruppert

Cert/Ed - Doug McDonell/Tim

Trendt

Frequency Coord - Chris Cain

Chapter Liason - Paul Meyer

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LEGALS

(cont'd from pg. 2)

the FCC's Field Operations Bureau that the six towers of WOKJ had not been lit during periods of darkness and that the station was not in operation. The FAA said the unlit towers were the result of suspension of service by the local power company for non-payment.

Upon inspection, the Commission found that WOKJ had been off the air since July without notifying or receiving authority from the Commission to go dark. In December 1990 offices of the Commission coordinated an effort to have the power company restore lighting to the towers on an emergency basis, which continues today.

Price has apparently ignored all Commission directives and inquiries concerning WOKJ's tower lights and has not notified the FCC of permanent discontinuance, surrendered his license, or requested temporary authority to remain silent. Consequently, these violations warrant revocation and forfeiture proceedings.

The FCC's long range direction finding network has shut down two illegal pirate radio stations.

The staff from the FCC's Philadel-

Cellular One
 The Mobile Telephone Company

Christina Roth
Account Executive
Mobile (608) 575-ROTH (7684)

1702 West Beltline Highway
Madison, WI 53713

Office: (608) 263-0010

MINUTES

(cont'd from pg. 1)

should contact him at Channel 3.

There was no old business to report.

In new business, Chris Cain reported that the first full day engineering seminar was being organized by the four SBE chapters in the state at this year's WBA. He also mentioned that SBE Executive Director Steve Ingram would be speaking at this year's conference. He then passed out the current schedule of events for the July 17th conference in Stevens Point.

Fred Sperry then announced that the 1990 SBE financial statement was now in the chapter's display case.

The meeting adjourned at 7:20 p.m.. At this time Jim Hermanson introduced Chris Cain and Kevin Rupert who, along with Kevin Peckham and John Lozar of Sony, began the program on the Sony Digital Library Management System.

Fred Sperry, Secretary

phia Office pinpointed the location of a shortwave pirate broadcast station identified as "The Voice of Oz" in Unionville, Pennsylvania.

On March 29, the Office traced the signal's source to the home of William Taylor. The station was inspected on April 13, and Taylor was issued a fine of \$1,000 for his illegal operation.

During the same time period, a station known as WLAR was located in the vicinity of Arlington, Massachusetts. On April 1, the staff from the FCC's Boston Office traced the illegal signals to the residence of a seventeen-year-old amateur radio operator. The operator is being issued a fine of \$1,000; the operator's name is being withheld because of age.


Recently the Commission fined the licensee of radio station KSHE-FM of Crestwood, Missouri \$25,000 for broadcasting a false emergency alert that the United States was under nuclear attack.

The Commission noted that broadcasting false or deceptive emergency warnings is a serious violation of a licensee's obligation to serve the public interest. In addition, the Commission stated that KSHE's use of tones popularly mistaken for EBS tones undermined the integrity of the EBS.

The Commission is warning broadcasters not to alter the weekly EBS test or air any musical rendition or alteration of the test script as outlined in the EBS Checklist. This would undermine the serious nature of the system.

WISC 3 TV

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SCHOLARSHIP

This year Chapter 24 would again like to assist one of its members in attending the SBE National Conference in Houston by awarding \$300 in the form of a scholarship to that person. The scholarship will be awarded on the basis of the following criteria and maximum number of points accumulated:

- 1) Attendance at 6 of the 12 meetings prior to July 31, 1991.
- 2) Non-Management employment in a broadcast related facility.
- 3) Must have SBE National dues paid for 1991.
- 4) The four elected Chapter 24 officers are not eligible.
- 5) Points will be assigned as follows:
 - a) 5 points for each month you have at least one article published in the Chapter 24 newsletter
 - b) 5 points for certification
 - c) 2 points for each monthly meeting in excess of the 6 required

Final selection will be by the four elected officers of Chapter 24. An alternate will also be selected based on the second highest number of points. The scholarship winner will be required to report on the convention to the chapter during the following monthly meeting and write a summary article to be published in the chapter newsletter.

Application is required in the form of a letter, signed, dated and received no later than July 31, 1991. Send yours to:

Leonard Charles
WISC TV Engineering
7025 Raymond Road
Madison, WI 53719

FCC NEWS

(Editors note: The Chapter 24 newsletter is still looking for a new FCC News columnist. If you are interested, please contact the editor.)

by Leonard Charles

The FCC has opened a rulemaking to solicit comments on its use of Alternate Dispute Resolution (ADR) and negotiated rulemaking methods. Congress passed legislation last year authorizing the FCC and other government agencies to use the "outside help" to solve controversial decisions. Comments are due June 17th.

The FCC's recent rules release on elements of children's programming has brought an avalanche of reaction from the NAB, the INTV, and Media Access Project. The Commission is being asked to extend its temporary time limit waiver to stations with existing barter contracts as well as to eliminate the Home Shopping Network from its commercial time limit exemption.

The FCC has authorized AT&T, IDB, and TRT-FTC to use the Soviet Union's Intersputnik satellite system to establish C-band interconnection between the US, Soviet Union and other Eastern Europe countries. The authorizations are subject to a six month review for continuance.

President Bush announced his intention to renominate James H. Quello to another term as FCC commissioner. Quello, whose term is due to expire at the end of next month, was first appointed by President Richard Nixon, and at age 77.

Quello is the Commission's senior member. He is expected to encounter little resistance in confirmation hearings.

New "effective competition" standards of cable systems is set to be adopted by the FCC. These standards are what govern whether a cable system must endure municipal rate regulation.

The Cable Act of 1984 defined three broadcast signals as effective competition exempting a system from the regulation. The new standard would be six broadcast signals or another multichannel video provider reaching half the homes in the cable system's market and serving 10% of them. According to the NCTA, this would expose 61% of the nation's systems covering 34% of the 55 million subscribers.

There's trouble brewing in them there air waves over the FCC's commitment to a broadcast high definition transmission system. Representatives of the computer and telephone industries say the future of such transmissions lies in fiber.

Comments surfaced during the

(cont'd pg. 5, col 3.)

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FCC MAIL AUDIT

from CHAPTER 28

We've obtained a copy of the new FCC "inspection by mail" questionnaire. Under this policy, the Commission mails (via registered mail) a "Broadcast Station Self-Inspection Report" to stations, giving them 15 days to fill out and return their part. The reports are 30 pages long—and they leave no stone unturned. With each question the respondent must provide copies of logs back for as long as the past year.

The survey covers Station Documents (including every operator's license information as well as telephone numbers, day and night, for the chief operator and the designated assistant chief operator (73.1870(a))). The survey also covers station records concerning EEO, PIF letters, where the PIF is located, and what hours the PIF is open to public access.

EBS questions include wanting the serial number of both the encoder and the decoder, as well as logs from the last 2 months showing both send and receive test log notes.

The Technical Requirements section is also action-packed and fun-

filled. Among other things, the FCC wants to know when the last freq and spurs measurements were done, by whom, and what were the results.

The section on Chief Operators requests copies of log entries from the past two months showing the required chief operator weekly inspection reports. There is a section on present operating parameters where you get to log every meter reading and show its calculated deviation from the licensed specs for every mode of operation.

You are then asked about your antenna structures and lighting, including the date of the last time your tower was painted, whether the paint is peeling at any place on the tower, and if so, to what degree. Another question: How many times per minute does your top tower light flash? Next they want to know how high the fence is around your tower.

They close with "Thank you for taking the time to complete the report." As if it were voluntary! The FCC has said that they will not fine stations based on their answers; however, they also say that they will visit one of the stations selected for a mail inspection not less than 20 days after the form is returned to "double check" what was on the survey. That visit WOULD result in fines for violations . . .

NATIONAL CONVENTION

The following locations and dates have been set for the annual SBE convention:

Houston, TX October 3-6, 1991
San Jose, CA October 14-17, 1992
Richmond, VA October 13-16, 1993

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FCC NEWS

(cont'd from pg. 4)

second of two hearings on fiber and HDTV systems called by the House Technology and Competitiveness Subcommittee.

The FCC's advisory committee on advanced television is seeking volunteers to act as "expert viewers" in subjective testing of proposed high-definition transmission systems. Volunteers must be scientists, engineers, or technicians familiar with TV technology.

After nearly four years of inactivity, the FCC appears ready to adopt new rules on satellite TV stations. The Commission currently approves or disapproves such stations on an ad hoc basis. At issue is whether to adopt specific criteria for authorizing them. Recent comments in the rulemaking process would have the FCC continue the ad hoc approach.

(Excerpts from *Broadcasting Magazine*)



WKOW TV

MADISON

AMATEUR RADIO NEWS

(Take Note: Hams can talk to other SBE members on the second Sunday of every month on the upper sideband of 14.205 MHz at 0000 Zulu—7 p.m. CDT)

by Tom Weeden

The FCC issued a final Report and Order on April 29, requiring amateurs to vacate the 220-222 MHz band as of 8 PM EDT, August 27 (or 0000 UTC August 28). The band became available to land mobile interests on May 29, but type accepted equipment probably will not be available for some time, perhaps making for a more "peaceful" transition between services.

Amateur license documents underwent a change in mid-April. New laser-printed tickets now include a "wallet card" slightly smaller than the traditional license and a 5 x 7 inch "framable" document.

Two amateur repeater organizations in Nebraska have been fined by the FCC for tower lighting infractions, even though the clubs are not the owners of the towers in ques-

tion. The Commission last year gave notice that it would fine not only tower owners, but also incidental users of such towers.

An FCC official noted to one club trustee that he was responsible for "keeping the owner of the tower and the FAA informed of tower problems....as a transmitter licensee it makes no difference in your responsibility if you are paying for the tower space or it was donated as a public service." After correspondence between the club and the FCC, the fine was held in abeyance for three years.

Hams stepped in with communications assistance after the earthquake in Costa Rica on April 22. Although overloaded, local phone lines in San Jose were still functioning, and many health and welfare inquiries into the stricken area were handled by US hams.

(Excerpts from June 1991 "QST" and "Worldradio" magazines.)

EQUIPMENT EXCHANGE

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 1400 feet of used DIELECTRIC 6 1/8 INCH COAX for sale. 20 foot sections. Marman clamp flanges, elbows—all crated and ready to go. Some sections may need replacement innards. Asking \$300.00 per section/elbow. Contact Deanna Morris, WKOW-TV, (608) 274-1234.

This equipment exchange area is dedicated primarily to individual SBE members and local area broadcast or telecommunications stations who have equipment for sale or trade.

If you have one or several items that you would like to list here, please contact the editor with your information. All notices will be accepted on a first-come, first serve basis, and the line length of each notice will be limited according to space available. Each notice will be posted for one month; if you wish to have your notice re-posted, you must re-submit your information to the editor. And, best of all, listing your items here is FREE!!

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VIDEO IMAGES

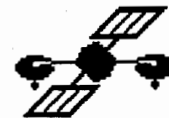
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CHAPTER 24 SUSTAINING MEMBERS

Thanks to our latest renewal:

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- Wis School of Electronics
- Maney Logic
- Scharch Electronics
- WMSN TV 47
- WKOW TV
- WISC TV
- Cellular One
- Panasonic Broadcast
- BTS
- Emmons Associates
- Skyline Communications
- Broadcast Communications
- LDL Communications Inc.
- Roscor Corporation
- Sony Broadcast



INVESTIGATING 3M

by Robb Hagen

On May 30, 1991 a group of engineers from Madison made a venture to the north to find out how the revitalized technology of video disc is manufactured along with compact disc and CD-ROM. The plant we visited was the 3M Optical Recording Plant near Menomonie, Wisconsin.

Members of Chapter 24 were invited by Chapter 112 of Western Wisconsin to participate in the tour of this rather unique plant. The plant specializes in making training video discs along with CD-ROM's. The plant does produce compact discs and movies on video disc, but those are not their forte. The plant runs 24 hours a day during the week, and two eight hour shifts each weekend day, to meet the ever-increasing demand for video discs and CD-ROMs.

First, our tour included an abbreviated version of the standard tour introduction, discussing things like what video discs, audio CDs and CD-ROMs are composed of, some processes used in their manufacture, and what our tour was to entail.

After this, we armed our eyes with safety glasses and proceeded on the tour of the facility.

As we made our way around the facility, we were able to see the video disc quality control area, which provides the ability to master the video from 3/4 inch U-Matic, 1 inch and D2 video tape formats. It was pointed out that their format of choice for mastering is D2.

The mastering process includes cutting a glass master that is used to make "stampers" that are used on the production lines to press the metal film for the final copies. This metal film is then covered by a clear plastic polycarbonate. This part of

the process is done within the confines of the highest grade clean room. Outside of the clean room, the discs get checked for defects with a shadowgraph, a device which shines a very intense light through the discs and onto a viewing screen where defects such as gouges or scratches can be seen. After this, the discs are cut to exact size if needed, labeled and packaged.

We were able to see part of the process—the cutting of the glass master—for a music CD from a digital 3/4 inch U-Matic tape, which is the world-wide standard for music CD masters. We did witness the complete process, however, used in the creation of video discs, from polycarbonate sheets to the final product—including a glimpse of the people working in the clean rooms, who were covered in some form from head to toe.

Finally, being the curious engineers that we are, a tour of WQOW-TV was included in our trip northward. With some spare time, we were able to see their facilities as well as some of the road construction in getting from the station back to the highway.

The engineers of the tour group from Chapter 24 thank Chapter 112 for the invitation to see the manufacturing plant, the tour of WQOW and especially the fine brat and bean cookout. A good time was had by all!



RADIO

by Stan Sarch

The Japanese Government is endorsing the Motorola C-Guam AM Stereo system as Japan's standard for Stereo transmission on the AM Broadcast band.

In an effort to ease tensions between the FAA and the FCC, the FAA has announced that it will no longer issue hazard determinations on certain applications before the FCC. At NAB '91 the FAA said it no longer considers AM radio, cellular telephone and fixed microwave transmitters to be a major hazard concern to the avionics band.

The development still leaves open the issue of hazard the FAA says FM upgrades and new stations will create for the avionics band.

Radio Data System (RDS) is being shown to U.S. car radio dealers by 2 manufacturers. The new system will allow display of station call sign, traffic alerts, automatic format based station scanning and much more. RDS is a 57Khz digital subcarrier.

AT&T is introducing a new 7.5Khz dial-up service that will link the U.S. and 10 other countries with high fidelity remote audio. The new service called SDI operates on the existing Switched Digital Service using a 56Kb modem and an SDI interface.

The FCC has announced that it will "tighten the rules" for FM modulation monitor requirements. A clarification of the rules has been sought by much of the broadcasting industry for 2 years since the introduction of monitoring that ignores very brief audio peaks. The Commission says it expects to resolve the issue by the end of September.

(Excerpts from Radio World)

CHAPTER 24 NEWSLETTER

(hard copy or ASCII text message on BBS at 608-274-7776)

Edited by: Deanna Morris

Contributors this month: Chapter 28, Chris Cain, Leonard Charles,
Robb Hagen, Jim Hermanson, Kevin Ruppert, Doug McDonell,
Stan Scharch, Tom Weeden and Dave Willow.

Articles Welcome! Send correspondence to:

Chapter 24 Newsletter

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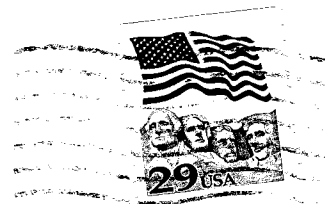
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CHAPTER 24 NEWSLETTER

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