



CHAPTER 24

SOCIETY OF BROADCAST ENGINEERS

MADISON, WISCONSIN

NOVEMBER 1991

BROADCASTERS CLINIC

by Jim Hermanson

The 37th Annual Broadcasters Clinic was held November 6-8th at the Holiday Inn Southeast in Madison. Each day was filled with a variety of informative presentations, with topics ranging from digital audio processing to UHF TV transmitters. Various audio and video exhibitors displayed their products on Wednesday afternoon and Thursday in the exhibit area.

Well over 100 broadcasters from around the Midwest attended the three day conference which was presented by The University of Wisconsin-Madison. Of them, there was a good mix of radio and television engineers. Old friends were reunited and new acquaintances were made.

Various consulting engineers spoke on recent projects or specific areas of concern. George Werf, Jr. of St. Paul, Minnesota provided an overview of the new Shoreview 8 Station installation. Donald L. Markely of Peoria, Illinois discussed some new AM broadcast rules. Mark Persons of Brainerd, Minnesota shared his experiences on tuning AM and FM transmitters.

Much consideration was given to the trend toward digital audio and video. Bill Ammons of CRL discussed high quality digital and analogue audio processing. Gareth Nelson of Sony Corporation brought us up to speed on their DAT products. Panasonic's Phil Livingston presented

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NOVEMBER MEETING

DATE: November 20, 1991

AT: M.G. & E. Operations Center

(Via John Nolan Drive or E. Washington Ave.: Turn onto Blair St., then east on Railroad St. (next to railroad tracks). Park in the Customer Parking area; enter the building via the Customer Entrance)

MEETING/PROGRAM: 7:00 P.M.

This month we will have a short business meeting followed by a tour of M. G. & E.. The meeting will be held before the tour in a room provided by M. G. & E.. There will be no dinner. A representative from Grass Valley is also tentatively scheduled to present a brief clarification of Grass Valley's views on digital tape formats. The company's views may have been misrepresented during a presentation at a recent engineering conference.

OCTOBER MINUTES

Chapter 24 of the Society of Broadcast Engineers met on Wednesday October 16, 1991 for a luncheon meeting at Alexander's Restaurant in Madison. The attendance of the October meeting included 16 SBE members, 12 who were certified, and 1 guest for a total attendance of 17.

The meeting was called to order at 12:15 PM by Chairman Jim Hermanson.

Secretary Fred Sperry read the minutes from the September meeting. The minutes were approved as read.

Fred Sperry reported the treasury balance in Treasurer Paul Stoffel's absence.

Membership Chairman John Beck then introduced Mark Groom as a new member of Chapter 24. Mark is the new Chief Engineer at WNBC. It

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UPCOMING MEETINGS

December 19

January 14

February 19

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PLUS:
SBE International Alliances
PC Driven LED Time Display

AN EBS REVIEW

by Paul Stoffel

Last month, I talked about some of the FCC's present and future plans for the EBS. This month, let's review the EBS "Plans" in our own backyard, i.e., the South Wisconsin Operational Area.

THE LOCAL PLAN

The State of Wisconsin is divided into seven Operational Areas (or Locals), including our South Operational Area. Each Area contains a key station that federal, state and local authorities and National Weather Service officials may contact to activate the EBS. These key stations are called Common Program Control Stations (CPCS-1). The CPCS-1 for the South Operational Area is WIBA AM/FM.

Other stations in the South Operational Area monitor the CPCS-1 (WIBA), and when the system is activated, stations are alerted with the two-tone EBS Attention Signal and air the emergency message broadcast to them from WIBA. Also, any broadcast station may activate the EBS on an individual basis as needed.

WIBA, as a CPCS-1, monitors WGN 720 AM in Chicago, the CBS Radio Network and the Associated Press to relay National-level EBS activations from the President.

The (South Area) Local plan was prepared by the South Wisconsin Operational Area Emergency Communications Committee. It provides specific procedures for the broadcast media to disseminate emergency information and warnings to the general public in the South Wisconsin Operational Area or any portion thereof within the station's broadcast coverage capability.

Presently, there is a Division of Emergency Government in each of the State's seven Operational Areas. The South Area Division of Emergency Government's EOC (Emergency Operation Center) is located

In the State Patrol District 1 Headquarters at 4845 East Washington Avenue. A remote pickup unit (RPU) radio links the South Area's EOC and the South Operational Area's CPCS-1, WIBA.

STATE EBS PLAN

EBS operates similarly at the state level. This plan was prepared by the Wisconsin Emergency Communications Committee in cooperation with the Educational Communications Board (ECB), operators of the Wisconsin FM Network, and the Wisconsin Division of Emergency Government. It provides specific procedures for the broadcast media to disseminate emergency information and warning to the general public in the State of Wisconsin at the request of designated state and federal officials.

During an emergency declared by the Governor, key staff members carry out their disaster functions from the State Primary Emergency Operating Center (Primary EOC) located in the Hill Farms State Office Building in Madison. Including the Hill Farms facility, the State maintains eight self-contained, fallout protected EOC's with statewide communication capabilities. All EOC's are below ground and seven are co-located with State Patrol District Headquarter buildings. There is an EOC for each of the seven Operational Areas.

Two dedicated telephone lines link the Hill Farms Primary EOC to the Originating Primary Relay Station, WERN-FM, for statewide dissemination of emergency information to the seven Primary stations of the ECB FM Network. WERN's programming originates from the ROC in Vilas Hall on the UW-Madison Campus. All Operational Area CPCS-1s, such as WIBA AM/FM in the South

(cont'd pg. 4, col 2)

CHAPTER 24 OFFICERS

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WKOW TV)
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H - 231-2005

VICE CHAIRMAN:

Leonard Charles (WISC TV)
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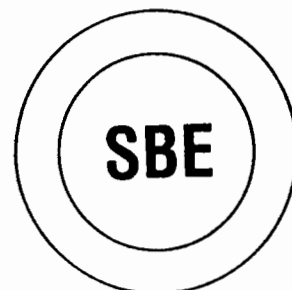
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TREASURER:

Paul Stoffel (WI Public TV)
W - 263-2121
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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
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SBE WELCOMES NEW MEMBERS

Chapter 24 would like to
welcome the following new
members:

Greg J. Brunner
Mark Groom
Daniel Wolfgram
Ronald J. Peterson
Homer Bellus

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MINUTES

(cont'd from pg. 1)

was also mentioned that Mark is looking for additional part-time work in the area.

Sustaining Membership Chairman Stan Sarch announced that the Chapter is currently at 21 sustaining members.

Certification and Education Chairman Doug McDonnell mentioned that anyone who was certified as a Senior Broadcast Engineer under the original Senior Broadcast Engineer certification plan should contact him if they have not yet received an application for recertification. These original certificates expire at the end of this year. Doug then presented Joanne Ho with a Broadcast Technologist Certificate.

Frequency Coordination Chairman Chris Cain announced that the FCC has decided not to adopt the SBE proposal for rulings on congested areas. Chris then also mentioned that April 1st, 1992 is the deadline for upgrades to class B STL antennas. There was no local activity to report.

In old business, Vice Chairman Leonard Charles presented the proposed changes in the guidelines for the annual scholarship that Chapter 24 awards for the National SBE Convention to be voted on by those present. A vote was taken and the guidelines were approved by a majority vote.

In other old business, Chapter Chairman Jim Hermanson read a letter from SBE's National Counsel Chris Imlay. The letter was in response to the resolution our Chapter had adapted along with the Milwaukee Chapter indicating our discontent with the way the National handled the amending of current by-laws in the recent National ballot. In the letter Mr. Imlay assured us that the procedure used by the National to amend these by-laws was legal. He did promise that this procedure would be handled more thoroughly in the future.

Vice Chairman Leonard Charles then mentioned that he recently talked with Terry Baun from the Milwaukee Chapter. Terry had indicated that the Milwaukee Chapter was going to appoint a committee within their Chapter to look further into this matter.

In new business, Doug McDonnell mentioned that he had received a document indicating that the FCC was focusing more closely on the issue of special temporary authority for Auxiliary Services. A copy of this document will appear in the November newsletter.

In other new business, Jim Hermanson announced that Chapter 24 had won two National SBE awards which were announced at this year's National SBE Convention. The awards presented to Chapter 24 were for Best Frequency Coordination (Chris Cain) and for Best Technical Article or Paper (Phil Mikalofsky, Fred Sperry and Kevin McLaughlin). Jim mentioned that there would be a formal presentation of these awards at this year's Broadcast Clinic.

Leonard Charles then gave a brief overview of the Digital Symposium he and several other chapter members had attended put on by the Milwaukee SBE Chapter.


Strategic Planning Chairman Dennis Behr then announced an idea the committee had come up with to have of a "pancake breakfast" as a Chapter social event. More information and details will follow.

Finally, Special Events Chairman Kevin Ruppert announced a seminar being presented by the Wisconsin Department of Transportation and the FAA in early November focusing on part 77 of the Federal Air Regulations.

The meeting was then adjourned at this time.

*Fred Sperry,
Secretary*

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CLINIC

(cont'd from pg. 1)

a paper on the new D3-1/2 Inch tape format. Grass Valley's Les Brown talked on the evolution from analog to digital video.

Recent developments in transmitter design were also presented. Harris Corporation has a new "Platinum" sold state FM transmitter line, as well as new UHF TV transmitters using MSDC/ESC type tubes.

The above mentioned presentations, as well as others, updated us on the new trends in our industry. They were rich in content and very educational.

Our SBE chapter displayed a booth on the exhibit floor this year. It was a pleasure to see and visit with SBE members from around the region. We answered questions from numerous people regarding membership and certification.

An awards ceremony was held just before the Thursday evening Engineering Forum and "Ask the FCC" session. During the ceremony we publicly presented the newly received national awards which were received at this year's national SBE convention in Houston. Terry Baum of the SBE National Board of Directors did the honors of presenting them. Phil Mikalofsky and Fred Sperry were presented awards for the Best Technical Article or Paper. Chris Cain was presented an award for the Best Local Chapter Frequency Coordination Effort.

Next year's Broadcast Clinic will be held during the second week of November. Don Borchert will continue his tradition of coordinating the convention, and he looks forward to seeing it continue for many years ahead.

EBS

(cont'd from pg. 2)

Operational Area, monitor the State's Primary Relay FM Network stations via an EBS monitor receiver/decoder. An Operational Area's EOC can also activate an area EBS for a regional emergency.

Possible changes are being considered for the State of Wisconsin Emergency Broadcast System. Don Moran, State Emergency Communications Committee chairperson, said, "We are considering adding an additional CPCS-1 to some of the Operational Areas. There are stations that are having problems receiving the CPCS-1 in their Operational Area, especially stations in the Northeast Wisconsin Operational Area."

Al Wohlferd, Director of Communications and Warning for the State of Wisconsin, Division of Emergency Government, said, "Realignment of the Operational Areas may be necessary, and because of budget constraints, we are considering a reduction of the seven Operational Areas down to six."

Al Jarratt, Engineer-in-Charge at the FCC Field Operations Bureau in St. Paul, said, "Two things the (FCC) is trying to work toward are: get the State Plans to a point where they can actually do tests...some states are performing tests...and, ultimately, to be able to do a nationwide test. There has never actually been a nationwide test of the EBS system."

Jarratt spoke during an evening FCC panel discussion at the recent Broadcasters Clinic held in Mad-

ison. It has been almost 3 years since the State EBS Plan has been tested. That was during the Spring of 1989. Both Moran and Wohlferd would like to see a test done yearly. The next one could possibly be in the Spring of 1992.

These topics, along with others, will be discussed at an upcoming Wisconsin EBS meeting in December. The Wisconsin Division of Emergency Government has a publication available that details all of the State's emergency programs.

DANE COUNTY PLAN

Finally, the EBS operates on a county level. Implemented in 1986, the Dane County Plan was prepared by our own SBE chapter in conjunction with WIBAAM/FM staff and Dane County Emergency Government Directors.

It provides specific procedures for Dane County officials to disseminate emergency information and/or warnings to local broadcasters directly via receivers having the proper decoding gear tuned to the Dane County Alert Monitor Radio Receiver System (a DTMF, multi-digit activation tone code format) at 45.320 MHz, or, indirectly, via the CPCS-1

(cont'd pg. 5, col. 1)

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Stan Scharch

WISC 3 TV

EBS

(cont'd from pg. 4)

(WIBA AM/FM) and CPCS-2 (WMGN-FM and WTDY-AM) radio stations. The receivers are equipped with a built-in cassette recorder that records the Alert Messages as received for re-transmission or transcription by station personnel.

The Dane County Department of Emergency Management is located in the City-County Building in Madison. Emergency programming originates from the Dane County's Public Safety Communications Center (9-1-1). As a backup, the Dane Emergency Operations Center (EOC), located one floor below, can also be used to originate emergency programming.

The Dane County EBS Plan is tested in conjunction with the County warning sirens on the first Wednesday of each month at 12:03 PM, except for the months of April thru September, when the system is tested on the first and third Wednesday. This test is not rebroadcast on the National/Operational Area (Local) EBS System as that system is tested once a week per FCC Rules and Regulations.

Stations equipped with the County receivers are: WIBA AM/FM (CPCS-1), WMGN/WTDY (CPCS-2), WERN-FM (Originating Primary Relay station), WISC-TV, WKOW-TV, and

WMTV-TV. The remaining stations depend on the CPCS-1 and CPCS-2 for distribution of information. The Dane County decoder receivers are available for purchase. There are two models, one with and one without a built-in audio cassette recorder.

James Engeseth, Dane County Emergency Planning Analyst, said, "We are willing to run more tests each month for area broadcasters if they would like." Future plans, Engeseth said, include, "an automatic digitized voice announcement message center sometime around October of 1992." The digitized messages would make the tests more consistent in terms of script delivery and carrier modulation.

A publication, authored by Engeseth, is available from the Dane County Department of Emergency Management called the "POPULATION WARNING SYSTEMS". It contains more details about the Dane County EBS Plan.

IN SUMMARY

No matter what broadcasting magazine you pick up lately, and this newsletter is no exception, the Emergency Broadcast System is receiving a lot of press coverage. Topics such as "the FCC increases fines", "activation failures" and "Notice of Inquiries" have made the EBS, "The Story of the Nineties."

Well, maybe not, but these stories have brought forth a renewed awareness of the EBS, and hopefully in-turn, have reduced some of the apathy. Understanding the aspects of the present-day EBS will help us as broadcasters make educated decisions as the future EBS evolves.

If you would like a photocopy of any of the above mentioned EBS Plan (Local, State or Dane County), contact me at a chapter meeting or leave a message on the SBE BBS.

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LOCAL LEGALS

Info by Doug McDonell

TRANSFER OF CONTROL

The FCC has granted WMLI-FM 96.3 MHz of Sauk City, Wisconsin a transfer of control of Odon Madison Limited Partnership from Odon Communications Group to William C. O'Donnell.

CONSTRUCTION PERMIT

A construction permit has been granted by the FCC to Dale A. Ganske for a new FM at 105.1 MHz in Waunakee, Wisconsin. The original permit was for an ERP of 3.0 KW, HAAT 100 meters H&V, but a modification was granted to change ERP to 3.8 KW, HAAT 74 meters H&V.

ASSIGNMENT OF LICENSE

Applications regarding WMAD-AM (1190 KHz) and WMAD-FM (92.1 MHz) in Sun Prairie have been granted by the FCC. In both actions, voluntary license assignments from First Choice Communications, Inc. to DPC, Inc., have been allowed.



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GRASS VALLEY "WHACKS" D2

by Chris Cain

(Editor's Note: The following commentary presents the views of the author and not necessarily the views of Chapter 24.)

At a recent Engineering Conference in Madison Wisconsin the closing paper stirred up some digital dust.

During a paper entitled "Analog to Digital- An Evolution or Slippery Slope?" a representative of Grass Valley endorsed the D-3 format and strongly advised members of the audience to "take a hard look at 1/2 inch technology".

He further went on to say "If you have D-2 and are having misgivings you can simply replace it with D-3".

This was confusing to some of us in the audience as we wondered why a company that does not manufacture tape transports of any format was apparently embracing one?

After some good information about the specifications of some of the key data rates that have to be dealt with in regards to parallel and serial transmissions, the Grass rep asked for participation of the audience. He asked for a "show of hands" of those in the audience who had D-2 machines in their plant. After approximately 8 attendees raised their hands He commented that "there were more hands raised than usual and that typically there would be some D-2 owners shielding their faces"!

This blatant attack on D-2 was very embarrassing to those in the audience who had trusted him and had raised their hands. At no point did he make any attempt to clarify any specific issues that would have caused his comment and embarrassment to D-2 users in the audience.

Following close on the heels of that he again intimidated many in the audience when they again, begrudgingly, participated in answering a question as to whether they were using the Parallel or NTSC inputs on their D-2 machines. Since none of the Broadcasters in this area yet have serial or parallel distribution this was received as another smug "put down" from this representative of Grass Valley.

The Presenter apparently does not understand how Broadcasters operate their facilities. We operate in the REAL WORLD and many of us have decided to use D-2 in our plants as replacements for aging spot players and or editing equipment. We are looking to the future when someday our investment now will be in line with the rest of the industry as more and more digital equipment within our plants will need to be connected in a digital fashion. We can't afford to do that now. Isn't that the reason that D-2 was developed?

To summarize how I received this paper:

- 1) Grass Valley endorses D-3.
- 2) Grass Valley has some bias AGAINST D-2 and it's user base.
- 3) Grass Valley wants Broadcasters to know that Digital is REAL SCARY right now and Broadcasters should stay clear of it until Grass Valley can introduce some new digital distribution products of their own.

Although many in the audience were not treated fair by the Presenter, I decided to call Grass Valley to get their opinion of such a presentation. High level management have made a vigorous commitment to me that they support all Digital formats and they do not understand what went amuck with their paper. They are going to review this situation and have stated that they will have a representative appear at the next Madison SBE Meeting to discuss their findings with us.

This was a truly unfortunate situation for those D-2 owners in the audience who had to hear "veiled" statements that they had invested heavily in a possibly inferior format, and for the home office officials of Grass Valley who did not intend for anything like this to occur.



RICHARD WOOD
PRESIDENT

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RADIO

by Stan Scharch

AMAX RECEIVERS/TRANSMITTERS

Radio receiver manufacturers have announced several AMAX and AMAX STEREO models that will meet the AMAX version of the NRSC specification. They are: Delco models UX1, U1A, U1B, U1G and U1H, Denon's "Super tuner" and Carver's TX11B. Also, GE says they have a radio that is nearly ready. On the transmitter side, Broadcast Electronics now has a 1KW solid state AM unit that has C-QUAM STEREO built in.

AM IMPROVEMENTS

As reported in the October issue of this newsletter, the FCC's long awaited decision on AM improvement was unanimously accepted in Washington last month. In review, the highlights include: A 10% interference reduction when voluntary modifications are made to AM stations, expanded band preference given to stations causing the most interference, limitations on AM/FM simulcasting and lifting the current freeze on new AM applications.

CANADA L-BAND

Preliminary testing in Canada of the 1500 Mhz L-band is favorable. The coverage is said to be comparable to current FM band





L.E.D. TIME-OF-DAY LOCKED TO NET

by Dan Maney of maney_logic

Have you ever needed facility-wide highly accurate clocks that are locked to and display Network time? In order to obtain a convenient time-of-day display locked to network, a PC RS232 COM port was put to use (see "PC's Time-of-Day Locked to Network," Chapter 24 Newsletter, April 1991).

By connecting one opto isolated LED display to the COM port and rediving the data to the next unit, everything is isolated. Several LED displays can then easily be daisy-chained together throughout a facility.

In addition, with each of the six digits of the display individually addressed, a software driver can also display other numerics, such as count-up timer or time-remain count-down.

We're interested to see what various applications exist besides a remote display for News Timer Plus. Direct questions or comments to maney_logic at (608) 277-8001.



by Leonard Charles

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

FCC NEWS

FCC CONSIDERS RULES AGAINST ON-AIR ANTICS

As the result of recent radio hoaxes involving a murder confession, a mock nuclear disaster, and a faked shooting, the Commission is considering rules to more clearly identify and punish broadcasters whose on-air antics harm the general public.

RITTER INTRODUCES H.R. 3501

House Telecommunications Subcommittee member Don Ritter (R-Pennsylvania) has introduced legislation requiring that at least one sitting FCC commissioner be a trained engineer. The announcement came from Ritter at the SBE National Convention held in Houston, Texas on October 5. The SBE has been the main organization lobbying for the legislation.

NAB FILES COMMENTS AGAINST NEW FINES LIST

The NAB has filed comments accusing the FCC of failure to comply with the Administrative Procedures Act by not providing the public an opportunity to comment on its new fines list for rules violations. The NAB

proposes the FCC scrap the new list and initiate a rule making on the new forfeitures.

DARK TOWERS LEAD TO LICENSE REVOCATION

The FCC has revoked the broadcast license of David Price for operation of WOKJ-AM Jackson, Mississippi. In addition, \$2000 in fines were levied. In July of 1990 the power company cut off electricity from the station for lack of payment leaving the station's six towers unlighted. Those towers are 2 and a half miles from an airport. The station was also turned off indefinitely without notification to the FCC.

1992 FCC FUNDING WILL NOT RELY ON USER FEES

The administration's plan to raise revenues for the FCC through user fees charged to broadcast licensees is dead for fiscal 1992. A \$126 million Senate plan for funding the commission was agreed to for the next year. The plan does not include the user fees.

(Excerpts from Broadcasting Magazine)

Panasonic



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AMATEUR RADIO NEWS

by Tom Weeden, WJ9H

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

HAMS ROLE IN COUP

Amateur radio played a significant role in the resistance to the attempted Soviet coup in August, similar to last winter's situation in Lithuania. When Soviet troops closed down broadcast stations, hams began operating from Boris Yeltsin's "Russian White House" on 20 and 40 meters. The Russian Amateur Radio Emergency Service used an ICOM 726 HF transceiver and ETO linear amplifier to keep information channels open to the west.

NASA HAMS

Two more NASA shuttle astronauts have become amateur radio operators. Brian Duffy and David Leestma, both scheduled to fly STS-45 in March 1992, have passed the Technician/Morse exams and are awaiting their call signs. The flight of STS-45 will be a high inclination orbit, which should make it more accessible to amateurs outside the Tropics.

H.R. 1674 PUSHES FORWARD

As part of the FCC Authorization Act of 1991, H.R. 1674, passed by the US House of Representatives on September 25, amateur radio operators would be specifically exempted from license fees. Also included in the bill is a provision allow-

ing the FCC to utilize, if it chooses, the voluntary services of amateur radio organizations to assist in the administration of a call sign program for radio club and military recreation stations. Senate passage of its equivalent bill and signature by the president are still required before the Act becomes law.

PACIFIC LINK

The Pacific Ocean was spanned on 3 and 5 GHz July 28, when N6CA in California and KH6HME in Hawaii made contact on the two bands. N6CA noticed a temperature inversion near Los Angeles and set up his portable microwave station on the Palos Verdes Peninsula at the 340-foot level. The two hams had been preparing for trans-oceanic microwave contacts for several years, and finally made the successful link of 2,469 miles on 3.456 and 5.760 GHz. Attempts were also made on 2.3 and 10 GHz, but were not successful.

(from October 1991 "QST" Magazine and W1AW radioteletype bulletins)



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JOHN CROOKS
Vice President

SBE FORGES INTERNATIONAL ALLIANCES

The SBE has signed agreements with two broadcast engineering associations in South Korea and Mexico in an attempt to expand its international horizons.

In a ceremony at the SBE National Convention held in Houston, Texas last month, SBE President Richard Farquhar and Kyung Ho Kim, president of the Korean Broadcast Engineers and Technicians Association (KBETA) signed a broad-ranging affiliation agreement. The agreement will lead to the exchange of information and ideas, cooperative educational efforts, and attendance at each group's national conventions.

One day later, a similar agreement was signed with Sergio Bertain of the Mexican broadcast engineers association AMITRA.

SBE International Committee Chair Chuck Kelly praised the agreement as an important first step in developing a worldwide network of broadcast engineers.

KBETA has over 3,500 members. SBE represents over 6,000 technical professionals.

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Madison, WI 53704
Phone: 608-242-1575

POSITON AVAILABLE

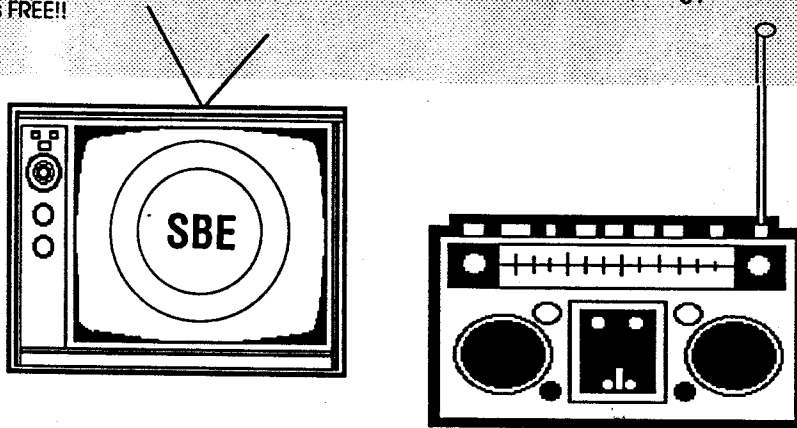
WFPS-FM in Freeport, Illinois is looking for a broadcast contract engineer. Contact Mark Taylor at (815) 235-7191.

EQUIPMENT EXCHANGE

..... TRANSMISSION LINE
 1400 feet of used DIELECTRIC 6 1/8 INCH COAX for sale. 20 foot sections, Mairman 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!!



CHAPTER 24 NEWSLETTER

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

Edited by: Deanna Morris

Contributors this month: Chris Cain, Leonard Charles, Jim Hermanson, Doug McDonell, Kevin Ruppert, Stan Scharch, Fred Sperry, and Paul Stoffel.

Articles Welcome!! Send correspondence to:

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 50 Schroeder Ct. #108
 Madison, WI 53711
 or call 608-271-3347 (home) 608-274-1234 (work)

The Chapter 24 Newsletter is edited on a Macintosh using Aldus Pagemaker

CHAPTER 24 SUSTAINING MEMBERS

Our newest sustaining members is:

The Tape Company

Our latest renewals are:
 Emmons Associates
 Panasonic Broadcast

Communication Technologies Inc.

- WMMM-FM
- 3M Professional Audio/Video
- Fuji Film I&I
- Skyline Communications
- Broadcast Communications
- Video Images
- Todd Communications
- Roscor Wisconsin
- Electronic Industries
- Wis. School of Electronics
- Maney Logic
- Scharch Electronics
- WMSN TV 47
- WKOW TV
- WISC TV
- Cellular One
- Sony Broadcast