

**CHAPTER 24
MADISON, WISCONSIN**

FEBRUARY 1992

**JANUARY
MINUTES**

Chapter 24 of the Society of Broadcast Engineers met on Tuesday January 21, 1992 at the studios of WIBU radio in Poynette, Wis. The attendance of the January meeting was 12. All 12 were SBE members, 11 of those were certified.

The meeting was called to order at 7:15 p.m. by Chairman Jim Hermanson.

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

Treasurer Paul Stoffel reported the chapter's account balance.

Chairman Jim Hermanson then announced that during a recent Chapter 24 Officers and Committee Appointees meeting an idea to award plaques to sustaining members that have been active with the chapter for five years was discussed and approved. Jim reported that according to Sustaining Membership Chairman Stan Sarch, there were two sustaining members who will be eligible for this award within the next year.

Special Events Chairman Kevin Ruppert then announced that the date for the Chapter 24 "social breakfast" is set and will be Thursday February 13th at 6:30 a.m. at the Perkins restaurant at Fish Hatchery Road and the Beltline. The sponsor for this breakfast will be Burt Young from BTS.

There was no old business.

In new business, Paul Stoffel announced that the dates and times

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

FEBRUARY MEETING

DATE: February 19, 1992
AT: **New Glarus Hotel**
100 Sixth Ave.
New Glarus, Wisconsin
DINNER: **5:30 p.m.**
MEETING & PROGRAM: **7:00 p.m.**
Broadcast Communications

Join Chapter 24 this month for a tour of Broadcast Communications' new facility in New Glarus. Following dinner at the New Glarus Hotel, we will reconvene at Broadcast Communications for a tour and a presentation on the powers of line sweeping, equipment used to climb towers, and a demonstration of Towermaster One.

**SUNNY SIDE UP
SIGN-ON
BREAKFAST**

WHEN: Thursday,
February 13, 1992
6:30 a.m.

WHERE: Perkins
Fish Hatchery Rd. & Beltline

Start your day off right by meeting with local SBE members and eating a hearty breakfast! The sponsor for this breakfast will be Burt Young from BTS. This is not a formal meeting and there will be no presentation. Just come and enjoy yourself!

UPCOMING MEETINGS

March 19
April 21
May 20

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PLUS:
CPR CERTIFICATION

SANTA WANTS YOU

by Paul Stoffel

Santa and the Elves Foundation, Inc., is a non-profit organization primarily interested in toys for needy children at Christmas time and aiding children with problems, but the interest doesn't stop there.

Founded in 1978, with the aid of Sue Wiskowski, the foundation, Santa said, has "grown in every area."

"With the aid of business leaders in the Dane County Area we have been able to support children in need and aid them in their quest for their dreams," commented Santa.

Presently, the Foundation has hopes of making three dreams come true. These include: the construction of a television production studio, the building of a recording studio and control room, and a road show to travel throughout Wisconsin and eventually the United States.

Through the use of these facilities, television programs can be produced by children for children. These programs would be aired on cable TV and distributed to school systems. Santa gave an example: "Kids may want to produce a music video. It is hoped that during this creative process children will learn more about themselves and others."

Santa, though, needs your volunteer help. Many areas of expertise are essential in order for these dreams to become reality. Santa spoke of people involved with: "voice recording, rock and roll recording, instrumental recording, television production, actors and actresses, writers, directors, producers, sound technicians, set designers, set decorators, stage hands, administration, dreamers and all the support people from these areas." Santa added, "We are on the ground floor and headed up!"

Santa and the Elves Foundation is located at 6661 Whalen Road, Verona, WI 53593. Their phone number is (608) 845-5387. Give Santa a call today!

PREDICTED SATELLITE SOLAR OUTAGES FOR SPRING 1992

by Tom Weeden

The sun moves to within 2.5 degrees of each geosynchronous satellite between the dates of February 26 and March 9, 1992. The date of closest "eclipse" is March 3, where the sun moves to within 0.2 degrees.

These eclipses can temporarily degrade the reception of satellite signals. The times given are "worst case," with the outage window lasting from 5 to 18 minutes total. Calculations were made for Madison, but should be accurate to within a minute or two anywhere in southern Wisconsin.

Reference coordinates: 43-03-01 N, 89-29-15 W.

SATELLITE	LONGITUDE	ECLIPSE TIME
SPACENET 2	69 deg. W	10:38 AM
SATCOM F2	72 deg. W	10:52 AM
GALAXY 2	74 deg. W	11:00 AM
GE K2 (Ku)	81 deg. W	11:32 AM
SATCOM F4	82 deg. W	11:36 AM
TELSTAR 302	85 deg. W	11:50 AM
SPACENET 3	87 deg. W	11:59 AM
GALAXY 3	93 deg. W	12:26 PM
TELSTAR 301	96 deg. W	12:39 PM
GALAXY 6	99 deg. W	12:52 PM
ANIK D1	104 deg. W	1:15 PM
ANIK D2	110 deg. W	1:41 PM
SPACENET 1	120 deg. W	2:26 PM
WESTAR 5	122 deg. W	2:34 PM
TELSTAR 303	125 deg. W	2:48 PM
SATCOM F3	131 deg. W	3:15 PM
GALAXY 1	134 deg. W	3:27 PM
SATCOM C1	137 deg. W	3:40 PM
SATCOM C5?	139 deg. W	3:49 PM

CHAPTER 24 OFFICERS

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 Liaison - Paul Meyer

**SPECIAL THANKS TO
SANDRA A. KOWAL
FOR DESIGN OF
FRONT PAGE BANNER**

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CPR CERTIFICATION

Chapter 24 is again investigating the possibility of taking the Red Cross Adult CPR certification course. The first step is to find out how many people are interested in taking the course as a group. The course is approximately \$35.00 per person and would be taken in 4 hours on an evening. If you would be interested, please contact Leonard Charles at WISC TV 3, 271-4321, before or at the next meeting.

POSITION SOUGHT

SBE Certified December graduate of UW-Platteville is looking for an entry-level Broadcast Engineering position. Maintenance and/or operations desired. Have prior broadcast experience.

Robb D. Hagen
2211 Kenwood Avenue
Janesville, WI 53545

(cont'd from pg. 1)

MINUTES

for the NPR/SBE Certification Course satellite audio interconnections have been set. These live audio interconnections will be every Tuesday in March from 1 p.m. to 3:30 p.m., and can be participated in through the facilities of Wisconsin Public Radio. For further details contact Paul.

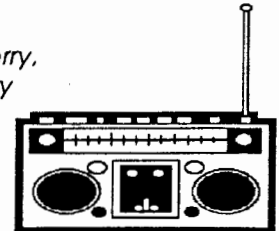

In other new business, Chairman Jim Hermanson asked for feedback from the chapter regarding enrollment in upcoming CPR classes through the Red Cross either for recertification or for first time certification.

Tom Smith then presented a list of upcoming Chapter 28 meetings in Milwaukee. Tom also then expressed some concern of the way the National handled the annual dues increase and suggested that the increase maybe should have been applied in smaller increments.

There were no personal or professional announcements.

At this time Special Events Chairman Kevin Ruppert introduced Lee Harris General Manager of WIBU Radio who gave a tour of the station's computer automation system, which along with their satellite service, allows for total station automation.

Fred Sperry,
Secretary

RICHARD WOOD
PRESIDENT


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RADIO

by Stan Sarch

DAB Activity Recap

Recent DAB activity in the last month includes:

1. Canada has successfully field tested 1.5 GHz L-Band DAB in a moving vehicle.
2. VOA and NASA demonstrated the same Washington in December.
3. Congress's Office of Technology Assessment says that 1.5 GHz L-Band DAB is the band of choice elsewhere in the world.
4. The FCC says it will continue with it's plan to promote 2.3 GHz S-Band DAB at the WARC in February. It has given L-Band to the Department of Defense.
5. In-band DAB proponents Strother and American Digital will not present their systems to the NAB because 2 proponents for USA digital are on NAB's DAB Task force.



Sibilance Distortion


FM band sibilance distortion can be eliminated by clipping at the transmitter. That according to a study by Professor J.G. Lourens of Stellenbosch, South Africa. The study, which recommends clipping after preemphasis, also notes that newer FM transmitters are equipped with a peak deviation clip at 100 KHz.

EIA AM & FM Tuner Specifications

The Electronics Industries Association (EIA) will soon change the standard by which AM and FM tuner specifications are measured. Under consideration are: New measurements for AM noise susceptibility and FM multipath susceptibility. Changes include: FM frequency response to 17 or 18 KHz, more reliable FM capture ratio specs, and many others. No timetable has been set for adopting a new set of standards.

Excerpts from Radio World

	
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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)

New Jersey Law Changed

New Jersey has changed its law regarding the possession of radios in motor vehicles. On January 20, Governor James Florio signed S-305 into law, superseding a law that had been on the books since 1926. Under S-305 it is no longer a crime for private citizens, including radio amateurs, to have in their vehicles a radio capable of scanning governmental frequencies. The new law still makes it a criminal offense to use such a radio to gather information for the commission of a crime.

WARC 1992

The World Administrative Radio Conference (WARC) will run from February 3 through March 4 in Torremolinos, Spain. Since the last major WARC in 1979, the International Telecommunication Union (ITU) has held several specialized radio conferences with narrow agendas. "WARC-92" will have a broader agenda, but not a top-to-bottom review of the international radio regulations like in 1979. Dr. Pekka Tarjanne, ITU Secretary-General, has said the main theme of the conference would be accomodating personal communications such as short-range wireless voice, data, and image transmissions with an interface to the global telecommunications network. Broadcasters will be watching worldwide HDTV and DAB allocations, and amateurs will hope to keep the allocations they already have in the face of mounting pressure for spectrum, especially in the 2300 MHz band.

NASA Shuttle Astronauts/Hams

NASA has scheduled March 14 as launch date for shuttle mission STS-45, with three astronaut/ham radio operators aboard. The eight-day flight will have a highly-inclined orbit of 57 degrees, which means hams all over the US will be able to hear (and hopefully, transmit to) STS-45 as it passes overhead. Specific 2-meter frequencies will be determined closer to the launch date.

From Feb. 1992 QST Magazine and WIAW radioteletype bulletins

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JOHN CROOKS Vice President	

CERTIFICATION AUDIO TELECOURSES

by Paul Stoffel

To assist Society of Broadcast Engineers members to obtain certification for the first time or to become certified at a higher level, the SBE and National Public Radio (NPR) have combined forces to offer an instructional certification course in broadcast technology.

The course, available through Chapter 24, will cover the SBE Broadcast Technologist certification level, as well as a review of the Broadcast and Senior Broadcast Engineer certification levels. The fees for a complete course have been paid for by Chapter 24.

The course will consist of five chapters: 1) Electronic Fundamentals; 2) AM/FM Transmissions; 3) Audio Systems; 4) Broadcasting Regulations; and 5) Satellites and Microwaves.

In addition to a workbook, accompanying audio tapes and review exams, the course features five live audio interconnections that will be held on successive Tuesdays during the month of March from 1:00-2:30 p.m. The downlink is on the NPR satellite Galaxy 6, transponder 3, channel 7. (Our chapter will also receive edited versions of the live sessions upon conclusion of all interconnections.)

During these live audio interconnections, the course instructors will provide answers to the review questions at the end of each chapter. In addition, the instructors will expand on the materials presented in both the text and the accompanying audio cassettes, as well as answer your questions.

Course participants will be able to participate in the live audio interconnections through the facilities of Wisconsin Public Radio in Vilas Hall on the UW-Madison campus. The Engel conference room, located on the 7th floor, has been reserved and participants should arrive at 12:30 p.m.

The course can also be taken at anytime at your own pace, in your home or office.

If you have contemplated becoming a member of the SBE and obtaining certification, now is the time. Contact Paul Stoffel for more information about course materials and the live telecourse by calling 263-2175 (work) or 241-4621 (home). Doug McDonell, Chapter 24 Certification/Education Chairman, has information about future SBE Certification exam dates and application deadlines. The application deadline for the June 5-15th local chapter exam is April 3rd.

Steve Peck
Sales Representative



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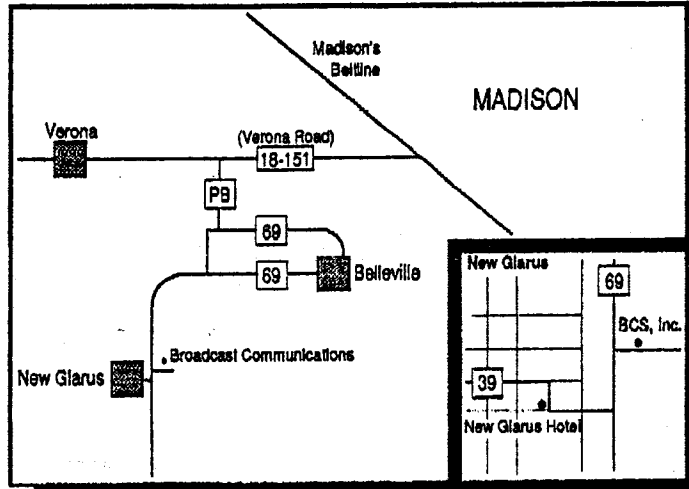
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Wednesday, February 19, 1992

CHAPTER 24 NEWSLETTER

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

Edited by: Deanna Morris

Contributors this month: Dennis Behr, Chris Cain, Leonard Charles, Jim Hermanson, Kevin Ruppert, Stan Sarch, Fred Sperry, Paul Stoffel, Tom Weeden.

Articles Welcome!! Send correspondence to:

Chapter 24 Newsletter
50 Schroeder Ct. #108
Madison, WI 53711

or call 608-271-3347 (home) 608-274-1234 (work)

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CHAPTER 24 NEWSLETTER

50 SCHROEDER CT. #108
MADISON, WI 53711



Tom Weeden 1
6802 Putnam Road
Madison, WI 53711