

**Chapter 24
Madison, Wisconsin**

Society of Broadcast Engineers *December 1998*

YOUTH NIGHT MEETING A SUCCESS

By Fred Sperry

Chapter 24's Youth Night was held November 19th as the regular monthly Chapter 24 meeting at WKOW-TV in Madison. Nine high school students and one instructor from West High in Madison were in attendance.

The meeting started with pizza and soda provided by Chapter 24. Following the dinner, we held our Chapter 24 business meeting, which included an overview of the SBE and the profession of Broadcast Engineering. The meeting was followed by an inspirational speech from WKOW's General Manager, Bob Miller, on the field of broadcasting and the different opportunities this field offers. Mr. Miller's speech was followed by a tour of the WKOW television facility. The students (as well as those in attendance) were also treated to a demonstration of high definition on WKOW's DTV channel 26. WKOW ran taped footage shot in high definition on the DTV channel in order to demonstrate DTV at its best. I'm not sure the students understood the unique opportunity they were being provided, but all indications were that they were impressed by what they were seeing!

Thank-yous for making the Youth Night possible goes to WKOW's General Manager Bob Miller and Chief Engineer Steve Zimmerman. A big thank-you to Chapter 24 Program Committee member Denise Maney who coordinated this event from ordering the pizza to sending letters of invitation to area schools. This night certainly would not have been possible without Denise's involvement. Thanks also go out to the staff and students at West High who took advantage of this opportunity.

Chapter 24 plans to continue to hold these Youth Night meetings on an annual basis. The National SBE developed this program as a way to get high school students plugged into the field of broadcasting and Chapter 24 certainly

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Next Meeting:

**Tuesday,
December 15, 1998**

Snell & Wilcox

**WKOW-TV
5727 Tokay Blvd.**

**Dutch Treat Dinner
at Fitzgerald's
5:30pm - 6:30pm**

**Business Meeting
and program
at 6:45pm
at WKOW-TV**

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SIGNAL LEAKAGE — FROM THE FAA ITSELF!

By Neal McLain

If you've been reading my BROADBAND NETWORKS articles recently, you know that signal leakage from cable television networks is a hot-button issue at the FCC. And for good reason: signal leakage has the potential to interfere with licensed transmitters authorized to use the outside airspace. Because of this potential, the FCC has established several rules governing leakage control.

Many of these rules grew out of interference complaints lodged by the Federal Aviation Administration (FAA).

The FAA operates a number of radio services essential to aviation, including air-to-ground communications systems and instrument landing systems. Obviously, destructive interference to one of these services could be disastrous. Because of the crucial nature of these services, the FAA has been one of the cable industry's most persistent critics over the years.

But, as the following story illustrates, the FAA's own leakage-control efforts haven't been perfect either. This is a story about signal leakage from an unauthorized extension of a cable television system. The cable system in

question is the Oberlin Cable Co-Op, a subscriber-owned cooperative cable system located in Oberlin, Ohio. And the unauthorized extension was made by employees of the FAA itself.

The author of this story is Poge Smit, the Technical Operations Manager at the Oberlin cable system. Poge originally posted this story on SCTE-LIST, an internet e-mail list, and he has kindly given me permission to reprint it here.

Poge's story follows, slightly edited for clarity, as posted on the list. The "Mr. Wong" mentioned near the end of the

(continued on page 4)

CHAPTER 24 OFFICERS

CHAIR:

Fred Sperry (Wis. Public TV)
W - 264-9806 FAX - 264-9646
fsperry@ecb.state.wi.us

VICE-CHAIR:

Kevin Ruppert (WISC-TV)
W - 271-4321
kruppert@wisctv.com

SECRETARY:

Lloyd Berg (WHPN-TV)
W - 270-5700
lloydberg@earthlink.net

TREASURER:

Stan Scharch (WISC-TV)
W - 271-4321
sscharch@wisctv.com

COMMITTEE APPOINTEES

Program Committee:

Mark Croom	271-1025
Denise Maney	277-8001
Kerry Maki	833-0047
Steve Zimmerman	274-1234

Membership and Past-Chair:

Paul Stoffel
stoffel@vilas.uwex.edu

Sustaining Membership: Fred Sperry

Special Events: Kevin Ruppert

Certification and Education:

Jim Hermanson 836-8340
jmh@execpc.com
Tim Trendt (UW-Platteville)

Frequency Coordination:

Tom Smith W - 263-2174
smithtc@vilas.uwex.edu

SBE National Board Member &

Chapter Liaison:

Leonard Charles
W - 271-4321 FAX - 271-1709
lcharles@wisctv.com

November Business Meeting Minutes

Chapter 24 of the society of Broadcast Engineers met on Thursday, November 19, 1998 at WKOW-TV in Madison, Wisconsin. This was a special Youth Membership Night. There were sixteen members, ten prospective student members, and two guests present.

The meeting was called to order by Chair Fred Sperry at 6:10 PM. Minutes of the September meeting, as published in the October newsletter, with the correction of Terry Baun's name, were approved. The minutes of the October meeting, as published in the November newsletter were approved as written.

Chair Fred Sperry welcomed the students from West High School and thanked WKOW-TV's Steve Zimmerman and Bob Miller for hosting this evening's meeting and for supplying dinner for all in attendance. Additional thanks were given to Denise Maney for setting up and coordinating the Youth Membership Night meeting and activities. Fred Sperry continued with an overview of broadcast engineering, the various rolls involved, and the purposes and functions of the Society of Broadcast Engineers.

Steve Zimmerman, Program Committee, announced December's meeting would be held on December 15 at WKOW-TV. Snell and Wilcox will present the accompanying program on Digital Television.

Jim Hermanson, Certification, announced that Exams would be given the week of November 20th, and the next Examination period would be February 10-20, 1999.

Tom Smith, Frequency Coordinator, announced that changes in the 18 GHz regulations are in the works, 455-456 MHz may again be under attack, ongoing Telex wireless frequency problems, and that the SBE was filing comments on behalf of saving the broadcast auxiliary allocations at 7 GHz.

Leonard Charles, National Liaison, expressed pleasure that Madison SBE Chapter 24 was one of the very first Chapters to hold a "Youth Membership meeting". He also announced that the SBE National Board had approved next year's budget with no dues increase. Authorized computer upgrades at the National Office and a conversion from Novell to NT, that National now has a one year operating reserve, beginning in January 1999 "Short Circuits" will be delivered via e-mail to those members with Internet e-mail addresses. And last but not least, that the national board accepted Chapter 24 to be the host of the 1999 National SBE convention

Steve Paugh spoke about the Sony HDCAM project with WISC-TV & WKOW-TV

WKOW-TV's General Manager, Bob Miller, spoke to the

(continued on next page)

November Minutes (continued)

group and especially to the students about the dawning of the digital age, and that Madison is on the leading edge of it. He recommended that the students be prepared for the digital age by being computer literate and pointed out that opportunities in all areas of broadcasting are equally available to women and men.

Fred Sperry adjourned the business meeting at 6:45pm. The evening's program immediately followed with a demonstration and inside look at the new On-The-Air Digital TV signal originating from WKOW-DT-26. A complete tour of the WKOW-TV facilities including Studio, News, Production and Master Control concluded the meeting.

Submitted by Lloyd Berg, Secretary

Thank you to WKOW-TV for providing copying and folding facilities for the Chapter 24 newsletter!

Thank you to WISC-TV for maintaining the web server for the Chapter 24 Web page!

James (Jim) B. Rogers
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AMATEUR RADIO NEWS

By Tom Weeden, WJ9H

- The November Leonids meteor shower had caused some concern for owners and users of telecommunications satellites, but apparently all have come through unscathed. For amateur radio operators the Leonids provided a lively show, with the ionized meteor trails reflecting signals back to earth on both VHF and UHF bands. Many hams reported working stations between 1000 and 1500 miles away during the shower. High-speed Morse Code is usually the preferred communications mode for "meteor scatter" contacts, but as a result of the numerous long-burning fireballs during this year's Leonids shower, single-sideband voice was effective. Did your TV or FM station receive a reception report from far away?

- The FCC, the FAA, and the FBI have announced the arrest of a Georgia ham for allegedly interfering with radio communication between aircraft and air traffic controllers in Northern Georgia. Kevin M. Kelly, N2BYE, was arrested without incident November 6 at his Cumming, Georgia, home by FBI agents accompanied by FAA and FCC agents. The FBI described Kelly, 46, as "a highly experienced electronics engineer" who was said to have been "extremely upset" about air traffic noise above his home. Kelly was scheduled to appear November 9 before a US magistrate in Atlanta.

- Madison-area readers wanting to obtain an amateur radio license may be interested in the formation of a one-weekend amateur radio course and test session on January 16 and 17. The Four Lakes Amateur Radio Club will sponsor the session to be held at The Space Place on South Park Street. Persons interested in the course will need to purchase a copy of "Now You're Talking," a study guide available at some Radio Shack stores. Due to the short time frame of the course, some home study prior to the class will be required. Contact Don Michalski, W9IXG, by e-mail at dem@sal.wisc.edu for more informaton.

(Excerpts from December 1998 "QST" Magazine, "The ARRL Letter," and local reports)

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FAA Signal Leakage (continued)

story refers to John Wong, Chief of the Engineering and Technical Services Division of the FCC's Cable Services Bureau.

O.K., folks. This may not take the cake, but it's sure to add a layer or two! I'm responsible for all technical operations of a small, subscriber-owned plant located in Oberlin, Ohio. We're located about 25 miles southwest of Cleveland. Oberlin is home to Oberlin College and the Oberlin Conservatory of Music. Both are world class facilities.

There just happens to be one other 'world class' facility in my community which is completely surrounded and served by our system: THE LARGEST AIR TRAFFIC CONTROL FACILITY ON THE PLANET! Though it's located in Oberlin, this facility is named Cleveland Center (FAA) and handles a wider variety (over a greater area), and higher volume of air traffic than any facility in the world.

Lucky me, eh? So much for the preface. You get the picture.

I received a call today from Cleveland Center regarding a problem with one of their outlets in a recently-constructed building adjacent to the main facility.

Me: "New building? What new building? What outlet? We only provide service to the cafeteria, tech break room, and the security building at the entrance to the facility."

FAA: "Oh, you must be new. We've got Cable TV runnin' all over this place".

Uh, oh! (I did the original installation back in '89 or '90).

After recovering from spilling a very hot cup of coffee down my crotch, I headed over to Cleveland Center.

What I discovered in two hours of investigation absolutely defines (or perhaps defies) irony.

What must be understood is that we provide service to the facility. Period. Anything that happens within the facility is supposed to occur under the auspices of the Federal Government. There are highly restricted areas of this facility not accessible by anyone other than high-level-clearance personnel. Certainly not me. (If they want their CNN though, by golly, they'll find somebody to creep through those areas to rig it up!)

I maintain and monitor the plant according to FCC regulations up to the point of entry. Our system has always been very tight and exceeds FCC specs in all areas.

Anyway, there is a lack of leakage integrity WITHIN THIS FEDERAL FACILITY, the likes of which none of you will ever realize in your collective careers!

While we're all out here bustin' our butts to keep airplanes from crashing into boats, the very entities we are trying to protect don't have a clue, and in my unique case are the MAIN CONTRIBUTION TO THE PROBLEM! I found Radio Shack amps screamin' at the moon with no terminations. I found pocket-knife splices (some with duct tape, some not.) (These geniuses seem to be slipping a bit. 'What, no tape? Guess I'll jes' spit on it.') There are amps and splitters at various locations within this facility that I either could not locate or are in restricted areas.

This whole situation, with the obvious ramifications, is a slap in the face to all of us.

I will close this segment with one final note.

Measuring cumulative leakage in such an environment without a tag somewhere in the ozone seems to be virtually impossible due to the constant traffic emanating and incurring at such a facility.

The most obvious leaks are easy to find. Just follow the duct tape!

Are you listening Mr. Wong? I'd love for you to inspect my plant! While you're at it, spend a little time investigating the substance of this posting and take a tour of Cleveland Center.

BTW, Cleveland Center will be without Oberlin Cable Co-Op services as of 8:00am 4/19/97. We would be delighted to re-direct all calls to our office regarding this issue to the FCC.

And so ends Poge's post. There were many follow-up posts, mostly offering advice about how to handle the situation. In the end, everything worked out amicably: after several meetings (and much consulting effort on Poge's part), the FAA cleaned up their internal cable TV distribution system.

YOUTH NIGHT (continued)

supports this initiative. Next year, we hope to develop an interest in this program with more area high schools, especially those that have a media or communications program. Despite the fact that we sent letters to all high schools in the Madison area, West High was the only school that responded. If you know of contacts at other area high schools we should contact for next year's event, please let me know either by e-mail at fsperry@ecb.state.wi.us, or by phone at (608) 264-9806.

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FCC Rulemakings

Compiled by Tom Smith

PROPOSED RULEMAKINGS

**CS Docket No. 98-201; RM No. 9335;
RM No. 9345**

Satellite Delivery of Network Signals to Unserved Households for Purposes of the Satellite Home Viewer Act Part 73 Definition and measurement of Signals of Grade B Intensity

The FCC is seeking comments concerning the adoption of rules that would allow for better determination of whether a viewer is in a location that is served or unserved by a local TV station for the purpose of reception of network signals via home satellite dish. This notice is the result of a number lawsuits between network stations and satellite programming providers concerning the illegal delivery of broadcast network signals. The FCC also received two petitions for rulemaking by Echostar and the National Rural Telecommunications Cooperative asking that the FCC amend it's rules concerning the methods for measuring grade B signals.

Currently, a viewer within the Grade B of a network station, cannot receive that network signal via direct broadcast satellite. The FCC is asking if it should continue the use of the current grade B standard or if it should adopt a different method of computing grade B coverage for purposes of the Satellite Home Viewer Act. The FCC is suggesting the use of a form of the Longley-Rice propagation model which considers all the terrain differences between the transmitter and the receive site. It is hoped that it would be possible to compute the signal level at a individual home. The FCC is not planning to change the signal level that

defines a grade B signal.

Echostar and the NRTC are asking for the creation of a new measurement method. They would like the measurement antenna to represent a more typical antenna installation at a fixed location next to the viewers home, instead of taking of measurements at a number of locations with a 30 foot mobile antenna.

Comments are requested on whether the homeowner, satellite provider, or broadcaster should pick-up the cost of measurements.

The FCC would also like comments on the proposed local into local satellite services that have been proposed by Echostar and others.

This notice was adopted and released on November 17, 1998 with comments due on December 11, 1998 and replies are due on December 21, 1998.

**MM Docket No. 98-203
Ancillary or Supplementary Use of Digital Television Capacity by Non-commercial Licensees**

The FCC is seeking comments in response to a petition by the Association of America's Public Television Stations (AAPTS) and the Public Broadcasting Service requesting the clarification on the ability of public TV stations to use any excess capacity of their DTV channels for commercial purposes. Some Public TV stations would like to use their excess capacity as a way to support their stations. The Media Access Project and other public interest groups have objected, saying Public TV stations use of their DTV channels must conform to the current restrictions on advertising on Public TV.

The AAPTS and PBS also requested that they be exempt from the spectrum fees for the subscription services or the leasing of excess DTV capacity. Congress required that because the DTV replacement channel were not subject to auction, the FCC was to collect a fee for any use of DTV spectrum that charges subscription fee. The AAPTS and PBS are arguing that because non-commercial stations are not subject to auction, they should not be subject to spectrum fees. They also request the fee exemption on the grounds that the fees are needed to supply new funding for construction of the new DTV facilities and support of new educational services that multicasting will provide.

This notice was adopted and released on November 19, 1998 with comments due on January 28, 1999 and replies due on March 1, 1999.

**ET Docket 98-206; RM-9147;
RM-9245
Amendment of Parts 2 and 25 of the Commission's Rules to Permit Operation of NGSO Systems Co-Frequency with GSO and Terrestrial System in the KU-Band Frequency Range and Amendment of the Commission's Rules to Authorize Subsidiary Terrestrial Use of the 12.2-12.7 GHz Band by Direct Broadcast Satellite Licensees and Their Affiliates**

The FCC is proposing the use of the 10.7-12.7 GHz band for satellite downlink operations by non-geostationary orbit fixed satellite services (NGSO) and the use of the 12.75-13.25 GHz and the 13.8-14.5 GHz bands for NGSO uplinks. Broadcasters and cable operators use the 12.75-13.25 GHz band for fixed and mobile operations.

The FCC is also requesting comments on a petition for the use of the 12.2-12.7 GHz band for terrestrial retransmission

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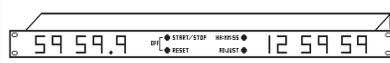
OFF

START/STOP

RESET

HH:MM:SS

ADJUST



UpTimer Clock

FCC Rulemakings (continued)

of local TV signals and the provision of data services to DBS Subscribers.

This notice was adopted and released on November 19, 1998. Comments are due on February 16, 1999 and replies are due on March 15, 1999.

MM Docket No. 98-204, FCC-305 Revision of Broadcast and Cable EEO Rules and Policies

The FCC has proposed a new broadcast and cable Equal Employment Opportunity rules. These rules would replace rules that were ruled unconstitutional by a Washington D.C. court.

The new rules would not be race or gender based, but instead would require a broad dissemination of job vacancy information. All job vacancies would have to be advertised to be in compliance with the proposed rules. Broadcasters and cable systems would also be required to file annual EEO reports again. The FCC is asking for comments on how to reduce the administrative and filing burdens on stations with small staffs. The FCC is proposing to modify its anti-discrimination rules to allow religious stations the right to select job applicants on the basis of religious belief or affiliation.

This notice was adopted and released on November 19, 1998, with comments due on January 19, 1999 and replies due on February 18, 1999. This notice was published in the FEDERAL REGISTER on December 1, 1998 on pages 66,104-66,110

FINAL RULEMAKINGS

MM Docket No. 97-247 Fees for Ancillary or Supplementary Use of Digital Television Spectrum Pursuant to Section 336(e)(1) of the Telecommunications Act of 1996

The FCC has completed a rulemaking which sets a fee for the use of DTV spectrum for certain ancillary or supplementary use in which fees are collected. This action was required by Congress in the Telecommunications Act of 1996. Congress ordered that the FCC create a fee system, instead of using auctions for the granting of the new channels for DTV operations by existing TV broadcasters. The fees are supposed to give the government an amount of revenue that would equal the amount of money that would have raised if the spectrum for DTV had been auctioned, and prevent unjust enrichment for use of the spectrum. Congress also ordered periodic review and adjustment of the spectrum fee.

The FCC set a fee of five percent of gross revenue for any ancillary or supplementary use of the DTV spectrum in which a fee is charged. These services would include subscription TV, data services, paging, audio services, and interactive services. The FCC will charge the five percent for any service that subscription fees are charged, or when a broadcaster leases part of their digital capacity to a third party. Services including conventional TV broadcasting, whether HDTV, SDTV or multicasting, and any new digital services that are supported by ad revenue, including infomercials and home shopping, are exempt. Ad revenue received on any subscription service will not be exempt and will also be subject to the spectrum fee.

The FCC determined in its rulemaking that a spectrum fee based on a percentage of gross would be the easiest to administer for both the broadcasters and the FCC. The FCC considered other methods based on percentage of profit and fixed base fees and a percentage of profit, but considered them too complex, as did most commentators.

The FCC will require additional new reports from DTV broadcasters on how they use their digital spectrum and what revenue they make from new digital services. Reports and fees are due each December 1st for each 12 month period ending on September 30th.

The FCC adopted and released this notice on November 19, 1998.

ET Docket No. 97-157; FCC 98-261 Reallocation of Television Channels 60-69, the 746-806 MHz Band

In this notice, the FCC reaffirms its decision not to allow any new applicants for TV stations on and not provide for any new protection for low-power TV stations on channels 60-69. This action is in response to a number of petitions for reconsideration of the FCC decisions concerning the reallocation of channels 60-69 for fixed and mobile public service radio, and for auction for future commercial use.

This action was adopted on October 5, 1998 and released on October 9, 1998. It becomes effective on November 17, 1998 and was published in the FEDERAL REGISTER on that date on pages 63,798-63,799

ET Docket 95-18 Amendment of Section 2.106 of the Commission's Rules to Allocate Spectrum at 2 GHz for Use By the Mobile-Satellite Service

The FCC reaffirmed its decision to reallocate 70 MHz in the 1980-2925 and 2160-2200 MHz bands for mobile satellite service. Some of this spectrum is currently allocated for the use by broadcasters for remote TV pickup. Broadcasters will have to move their operations from that part of the 2 GHz band.

(continued on next page)



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This action was adopted and released on November 19, 1998.

**MM Docket 93-25
Public Interest Obligations for
Direct Broadcast Satellite Service**

The FCC has adopted rules implementing public service requirements for direct broadcast satellite providers. These rules require that DBS providers set aside a percentage of their capacity for non-commercial educational or informational programming. The DBS providers may not edit or choose the programming, but may select the program suppliers. They must also comply with political access rules for candidates for federal office as terrestrial broadcasters do.

This rules were adopted and released on November 19, 1998.

**CS Docket No. 96-93
Implementation of Section 207 of
the Telecommunications Act of 1996
Restriction on Over-the Air
Reception Devices: Television
Broadcast, Multichannel Multipoint
Distribution and Direct Broadcast
Satellite Services**

The FCC has adopted rules that would prevent landlords and condominium and community associations from prohibiting the installation of antennas for broadcast, direct broadcast satellite and wireless cable in areas that are exclusive to the occupants of multi-dwelling units. Exclusive areas for the occupants include patios, balconies and interior spaces.

Landlords and associations can still restrict antennas in common areas such as roofs and exterior walls.

This notice was adopted and released on November 19, 1998.

From FCC Notices and Press Releases (www.fcc.gov) and the FEDERAL REGISTER (www.access.gpo.gov)

LOCAL LEGALS

Compiled by Tom Smith

PROPOSED

WNNO-AM/FM Wisconsin Dells, WI.

Magnum Communications Inc., Tomah, WI. (Lynn Magnum, Pres.) seeks permission to purchase WNNO-AM/FM from Armada Communications of Wisconsin Dells, WI. (L. Robert Van Genderen, Pres.) for \$775,000. Magnum Communications owns or is buying three AMs and 6 FMs including WIBU-AM, Poynette and a permit to build a new FM in Portage. Armada Communications has no other broadcast interests.

WNNO-AM operates on 900 khz with 1 KW day and 229 watts at night. WNNO-FM operates at 106.9 mhz with 3 KW with the antenna at 320 feet.

From FCC Daily Notices, BROADCASTING and CABLE

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Central Regional Manager **Video and Networking Division**
Western Area 515 West Algonquin Road, Ste 100
Arlington Heights, Illinois 60005
james.j.pianowski@tek.com
800 458-7587 ext. 6797 Voice Mail
847 431-5755 Mobile
847 381-4738 Home
847 734-6797 800 452-1368 Pager
847 364-7582 Fax




7847 BIG SKY DRIVE
MADISON, WISCONSIN 53719
(608)833-0047 • FAX(608)833-5055



KURT SCHINI
REGIONAL SALES MANAGER
CENTRAL U.S./CANADA

271 MOUNTAIN WAY, CHANHASSEN, MN 55317
PHONE (612) 401-8658
FAX (612) 401-8659 PAGER (888) 415-2791
e-mail LouthKS@compuserve.com

SCHARCH ELECTRONICS CO.
Small Business Communications
1105 Middleton Street
MADISON, WI 53717-1078
(608) 831-2266 (800) 831-2266



HARRIS CORPORATION
BROADCAST DIVISION
District Sales Office:
1913 Fairoak Road
Naperville, IL 60605

Tom Harle
DISTRICT SALES MANAGER
RADIO

TEL: 630-420-8899
FAX: 630-420-9171
e-mail: tharle@harris.com
Sales: 800-622-0022



Daryl Snowden Paul Jensen

Office **608-884-8205** Office **608-255-0529**
Fax **608-884-6021** Fax **608-255-2599**
Mobile **608-751-8284** Mobile **608-235-8559**



SBE Chapter 24 Newsletter
5174 Anton Drive #15
Madison, WI 53719-4201

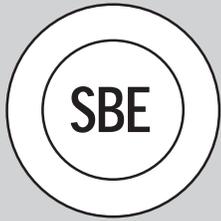


FIRST CLASS MAIL

Newsletter edited on Pagemaker 5.0 by: Mike Norton
Contributors this month: Lloyd Berg, Neal McLain, Tom Smith, Fred Sperry, and Tom Weeden.
Thanks to Chris Cain for his work on the Chapter 24 WWW page.

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DECEMBER MEETING and PROGRAM



**Society of Broadcast Engineers
CHAPTER 24 MADISON, WISCONSIN
Tuesday, December 15, 1998**

DTV Issues/Snell & Wilcox

As the second tier of television stations begin to plan and budget for DTV, it is time to learn more about all your options for DTV. Scott Rogers, District Sales Manager with Snell & Wilcox, will present DTV Transition Scenarios at the December meeting.

Learn how to transition from your current infrastructure to an HDTV signal. Upconversion, downconversion, decoding, and noise reduction will all be covered as part of this presentation.

**Dutch Treat Dinner
Promptly at 5:30pm - 6:30pm
at Fitzgerald's of Middleton
3112 W. Beltline Hwy Middleton, WI**

**Choose one menu item and RSVP to Denise Maney at 277-8001 or email:
sloop26@aol.com No later than 10am Friday, Dec 11th.**

Prime Rib/Queen cut \$13.95

Baked Chicken Breast \$9.95

Shrimp Baked or Fried - specify one \$14.95

**includes: Salad Bar & Baked potato; coffee, tea, or milk available for 50¢
Cash bar**

**Meeting and Program at WKOW-TV
5727 Tokay Blvd
at 6:45pm
(Note early start time)**

Visitors and guests are welcome at all of our SBE meetings!

1999 UPCOMING MEETING/PROGRAM DATES:

Day	Date	Program
Wednesday	January 20	To Be Announced

Program Committee:

Kerry Maki
833-0047

Denise Maney
277-8001

Steve Zimmerman
274-1234

Mark Croom
271-1025

December SBE Short Circuits

ENNES WORKSHOP PLANNED FOR ALABAMA

Montgomery, Alabama will be the site for the next Ennes Workshop, February 27, 1999. The program will be held in the Colonial Bank Building in downtown Montgomery from 9:00 am to 5:00 pm. Registration will open at 8:00 am. Tentatively, the program will include presentations on power conditioning, grounding and HDTV - DTV. Details on the program, speakers and cost will be available later in December. To register, call the SBE National Office at (317) 253-1640.

MEMBERS GET DISCOUNTED NAB REGISTRATION

Again in 1999, SBE members will be able to take advantage of discounts to the NAB Convention in Las Vegas. SBE members will get the NAB Member rate off the full conference fee. This is a savings of \$300! More than five times the cost of one year of SBE dues! Registration forms will come direct from NAB in early 1999. If you don't get one in the mail by the end of January, call NAB Conventions at (202) 429-5419 and request one be sent to you.

CERTIFICATION EXAM PERIODS EXPANDED

There are now four certification exam periods held each year in local chapters, plus, exams may be taken during the NAB Convention in Las Vegas. You have more opportunities to become certified - at times convenient to you. For more information about SBE Certification, see your Chapter Certification Chair or contact Linda Godby-Emerick, Certification Director at the SBE National Office at (317) 253-1640 or lgodby@sbe.org.

<u>Exam Date(s)</u>	<u>Location</u>	<u>Application Deadline</u>
February 10 - 20	Local Chapters	December 31, 1998
April 20	NAB Convention	March 22, 1999
June 11 - 21	Local Chapters	April 30, 1999
August 18 - 28	Local Chapters	July 5, 1999
November 12 - 22	Local Chapters	September 30, 1999

SBE ADDS NATIONAL CAR RENTAL

Discounts on vehicles from National Car Rental have been added to the list of SBE Member benefits. Members can get 5 % off leisure rates or 20% off business rates. Contact Scott at the SBE National Office, (317) 253-1640, to get your National Car Rental SBE Member Discount Card. SBE also has a vehicle rental discount program for members through Hertz.

CHAPTERS HOLD EVENTS INVOLVING STUDENTS

Two SBE Chapters have already held events which have provided opportunities for high school students to hear about broadcast engineering as a career.

Chapter 70, Cleveland, Ohio, recently participated in a Sunday afternoon career fair. An SBE table was staffed by local members who distributed career information provided by the National Office, and talked with interested students. Chapter 24, Madison, Wisconsin, held a special Student Night Chapter Meeting on November 19. The meeting was hosted by one of the local TV stations. The station's general manager was the guest speaker. The chapter provided tours and pizza for those who attended. Literature about SBE, Youth Membership and broadcast engineering as a career was available.

All chapters are encouraged to plan an activity that can help educate students about the career possibilities in broadcast engineering. The National Office has a free packet of materials to help you plan your program. Contact Scott to get your packet at (317) 253-1640 or e-mail him at kjones@sbe.org. The ideal time to hold a student function is from now through early May.

SHORT CIRCUITS TO BE E-MAILED MONTHLY

Beginning January, 1999, "Short Circuits" will expand its reach by being sent as an e-mail message to all SBE members who have provided an e-mail address for the member database at the SBE National Office. As it has to Chapter Chairmen for the last six years, "Short Circuits" will now provide monthly news and information in between issues of the SBE SIGNAL. "Short Circuits" has been accessible to all members for more than two years since being posted on SBE's Web Site. As an e-mail message, it will be more convenient and we hope a more effective communication tool.

MEMBERS' RESUME SERVICE AVAILABLE

Looking to improve your employment? SBE members can take advantage of SBE's new Resume Service. Members may submit five copies of their resume to the SBE National Office, along with a short questionnaire outlining individual preferences. They are matched with employers who can request resumes of those on file who generally match the specifics of the position they need to fill. The service is free to members submitting resumes. Employers can request resumes, at no charge, through December 31, 1998. Call Teresa Ransdell or Scott Jones at the SBE National Office to use the SBE Resume Service.

Questions and comments about SBE may be e-mailed directly to Executive Director, John Poray at jporay@sbe.org.