

CHAPTER 24
MADISON, WISCONSIN

Society of Broadcast Engineers

April 1993

WE'VE LOST A FRIEND

by Leonard Charles

Chapter 24 lost one of its longest, most active members and a good friend. Doug McDonell passed away suddenly at his home in the beginning of March. Since Doug took up residence on the shores of Lake Waubesa, he has always played an essential role in the operation, survival and growth of our Chapter. Over time, he held all elected officer positions, some more than once, and numerous committee chairmanships, the most recent being Chairman of Certification and Education, a position he held at the time of his death. Doug always carried nothing but the highest of ethics and professionalism.

Apart from our professional relationship with him, Doug would, once a year, offer up his back yard and his Kentucky catfish to any who would respond to the invite for the Chapter fish fry. When someone is taken from us unexpectedly, many memories are magnified in efforts to deal with the loss. For many of us, that fish fry will be the most vivid, even the year it rained and we ate and socialized under a tarp stretched down the driveway from his open garage door. Doug and Lucy (Doug's black lab) were always the most gracious of hosts. This empty feeling will not soon go away.

SIMPLE, BUT EFFECTIVE, TRANSMISSION LINE PRESSURIZATION

By Ken Dixon

The engineers at WHA-TV had an interesting experience with the Channel 21 transmission line recently that may prove informative to others.

After many years of losing very little Nitrogen, perhaps a bottle in two years, the consumption jumped to a bottle in a week and then to a bottle in several days, varying somewhat with outside temperature. This wasn't a good trend... We knew that it would be some time before the leak could be located and repaired, so steps would have to be taken in the interim to reduce the Nitrogen flow, if possible, and to increase the size of the Nitrogen supply. Our plan was to reduce the normal 5 psig pressure to between 1 and 1½ psig. This would maintain a positive pressure on the line and, if the size of the leak orifice remained the same, would reduce the gas consumption considerably. We also wanted to attach a second bottle of Nitrogen to the line to double the available supply. It was (and is) imperative that we maintain a positive pressure on the line to prevent the ingress of moisture.

Although the gas pressure regulators that we were currently using

Continued on Page 3

APRIL MEETING

DATE: Tuesday
April 27, 1993

AT: Brat und Brau

6654 Mineral Point Road

DINNER: 5:30 p.m.

MEETING: 7:00 p.m.

Chapter elections after meeting.

PROGRAM: "NAB Roundup"

Members who attend the NAB Convention in Las Vegas are encouraged to share what they have learned and observed.

IN THIS ISSUE

The University of Wisconsin-Platteville Department of Communication sponsored its first ever Spring Symposium on March 31 entitled "The Future of Broadcast Entities." The purpose of the symposium was to introduce and discuss specific technologies that have or will soon affect our ever changing field. We were fortunate to have four professionals from the Midwest area to share their knowledge and opinions on specific topics of interest. Fifty-four professionals from the tri-state area attended the symposium, as well as dozens of university faculty, staff and students.

Individuals from the Platteville campus took notes during the Spring Symposium. To read about the four topics, see pages 6 & 7 in this issue.



AMATEUR RADIO NEWS

Compiled by Tom Weeden, WJ9H

● Space shuttle mission STS-56, a mission on which all astronauts are also amateur radio operators, was launched early on April 8. The shuttle was inserted into a high-inclination orbit, allowing US amateurs at high latitudes the opportunity to connect with the shuttle on 2 meters. The astronauts plan on using FM voice, packet radio, and slow-scan TV modes. The downlink frequency is 145.550 Mhz. The STS-55 mission, delayed from late March, will also have some amateurs on board when its launch will be attempted again in a few weeks.


● The FCC has issued a notice of proposed rulemaking (NPRM) to create a new shared band for amateurs at 219-220 Mhz. The Commission proposes to allocate the 1 Mhz band on a secondary basis for amateur point-to-point fixed communications. The NPRM says the new allocation would help alleviate crowding in the 222-225 Mhz band

and would facilitate establishment of regional and nationwide backbone networks for amateur packet communications. Although several commenters support the request, at least one organization opposes it. The Association for Maximum Service Television (MSTV) said that no amateur operations should be allowed in the 216-220 Mhz range because of a potential for interference to TV channel 13 (210-216 Mhz). Hams lost the 220-222 Mhz portion of their 125 cm band a few years ago when the FCC reallocated it to the land mobile service.

● The FCC has fined a television production company for illegally using the amateur 420 Mhz band and is investigating the company that rented the radios used in the illegal operations. The FCC's Dallas office issued a Notice of Apparent Liability to Cannon Television, Inc. of Irving, TX on February 23 for \$8000.

A local amateur found the company transmitting on 443 and 445 Mhz on channels between those normally used by amateurs. Dallas-Fort Worth area hams aided the FCC in radio direction finding and locating the source of the transmissions.

(From April 1993 QST Magazine and Badger State Smoke Signals)



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

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TREASURER:

Paul Stoffel (WI Public TV)
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H - 241-4621

COMMITTEE APPOINTEES

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Membership: Leonard Charles

Sustaining Membership: Stan Scharch

Strategic Plan: Dennis Behr

Special Events: Kevin Ruppert

**Certification and
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Tim Trendt, Platteville

Freq. Coordinator: Tom Smith
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TRANSMISSION LINE

Continued from Page 1

were 2-state types, it was not possible to precisely adjust the pressure to the newly desired 1 to 1½ psig range. The solution was to provide a second in-line pressure regulator. The second regulator would accept an input pressure but would supply an accurate output pressure in our desired range. The Fairchild Model 1022 Pressure Regulator available through GWS Supply in Appleton was the regulator selected. This regulator is somewhat unique in that it also vents to atmosphere if the line that it is feeding increases in pressure above that set by the regulator. Basically, this means that heating from the sun will

not increase the transmission line pressure. This regulator, along with a pressure gauge, 25 ft. of plastic hose and several brass fittings are available as a kit from GWS Supply for a little over \$100.

Connecting two Nitrogen bottles was accomplished very easily and inexpensively with a device also from Fairchild and supplied by GWS Supply for a little under \$100. This device is a Fairchild Model 91 High Pressure Selecting Relay which selects the input port with the highest pressure and routes it to the output port without the need for internal or external batteries or power supplies. In our installation, the output port feeds the input to the Model 1022 pressure regulator. (See Figure 1.) The selector connected in this man-

ner will combine the outputs of two Nitrogen tanks (with regulators to reduce tank pressures to the 5-25 psig range) and will deplete the contents of one tank before switching to the remaining tank. The output pressures of the two regulators should be several pounds apart, although the selector will operate if the difference is greater than 0.1 psi.

Although we used these components to treat the symptoms of a problem, they do comprise an inexpensive and effective, smooth adjusting transmission line pressurization system that should perform with little attention for years.

GWS Supply in Appleton can supply a comprehensive catalog with a wide range of air system supplies; call Jerry Schuette at 414-739-6066 for a copy.

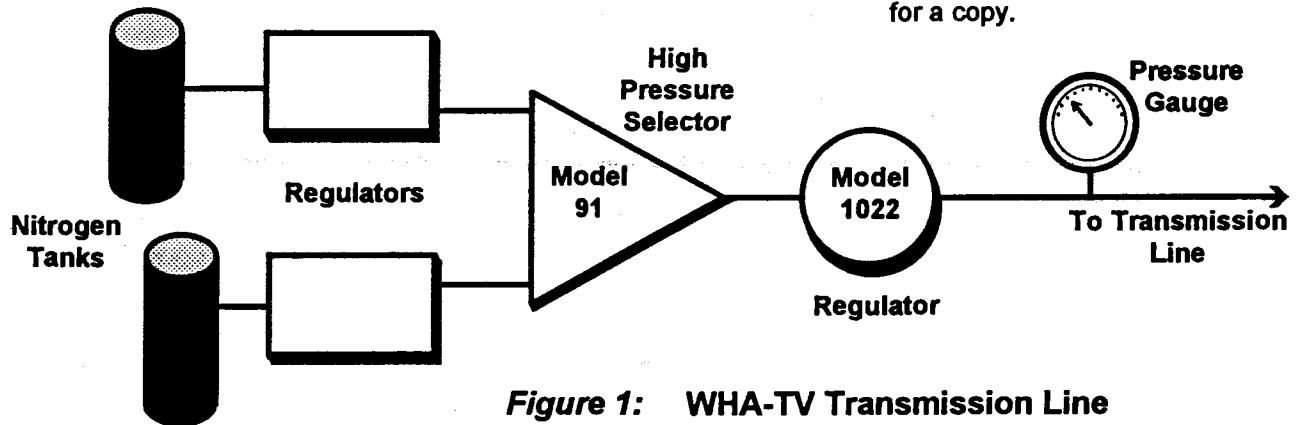


Figure 1: WHA-TV Transmission Line Pressurization System

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TV News

Compiled by Kevin Ruppert

Hurry Up and Wait - HDTV News

The world was expecting a decision on an HDTV broadcast standard from the Advanced Systems Committee at the end of February of this year. Instead, the committee decided that more tests were in order. Never the less, it did make some important decisions that will greatly effect the future of broadcast TV. The biggest decision was that the new TV standard will be digital. NHK, the last analog proposal in the running has been eliminated.

Some are afraid that further testing, along with the possibility of intervention from the Clinton Administration, will result in long delays in the process of picking the standard. And if Vice-President Gore decides telecommunications policy, as some now expect, his past thinking could influence eventual selection of a system that will be largely favored by the computer industry.

It has been hoped that the remaining proponents could work together in the period before a decision is made to create one or more systems that would have some of the best features that are presently available to them. Some insiders insist, however, that any improvements are mainly likely to make the systems look more alike and thus make the selection process more difficult.

(Excerpts from *TV Technology* and *Television Broadcast*)

RADIO....

Compiled by Stan Sarch

- Wideband AM receiver manufacturers may have to compromise bandwidth in order for the band to utilize RBDS (Radio Broadcast Data System). The results of on-air testing in Los Angeles were recently made known to the NRSC. No side effects from RBDS were noted on narrow bandwidth receivers.
- Since C-Quam AM Stereo broadcasts began in Japan in 1992, most radio manufacturers have introduced new radios with the technology. Both home stereo and portable units are being built with the feature.
- Bonneville International has entered into an agreement with Compol Inc. to purchase hundreds of SCA radios for distribution to the Washington, D.C. general public. Bonneville plans to put it's limited coverage WPGC(AM) signal on it's WPGC-FM SCA for added coverage.

(Excerpts from *Radio World*)




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NATIONAL NEWS

● Following up on the success of the Birmingham Ennes Workshops, the SBE will be holding sessions at South Bend, Indiana in early May and at St. Louis on June 19th. The South Bend Seminar will be held on May 8th (Saturday) at the Quality Hotel in Elkhart, Indiana, just outside South Bend. The St. Louis Session will be a two-day affair June 18-19 at the Henry VIII hotel. The first day's sessions will be on computers, while the second day will feature the SBE Ennes Seminars.

● Your SBE continues to fight to protect the RF spectrum allocated to terrestrial broadcasting. In late March, SBE prepared another set of informal comments against a second DBS satellite company wishing to usurp the 7 GHz broadcast auxiliary band for satellite uplinking operations. Loral Aerospace Holdings/Sky Highway Radio Corp. filed their application on February 19th, and our Counsel Chris Imlay replied

with the SBE informal objections April 9th.

● The SBE continues to explore the possibility of becoming certified as an examination manager for FCC commercial Radio Licenses. The Commission intends to "privatize" the administration of those examinations.

● More "Short Circuits" to appear....The SBE has revived the Short Circuits newsletter for Chapter Chairs, with the first issue published in March. The publication is designed to help keep Chapter Chairs informed of SBE news and developments in the periods in between regular "SBE Signal" quarterly newsletters.

● We welcome Peggy Hall as the new Membership/Newsletter Secretary at the SBE in Indianapolis. Hall takes over the position left by Elberta Clayton in mid-January.

(From SBE Chapter 28, Terry Baun Newsletter Editor)

BYLAWS AMENDMENT PROPOSED

In accordance with Article XII of Chapter 24's Bylaws, I am proposing to amend Article V, Section 2.

Current bylaw: *An officer may be elected to consecutive terms, but shall not serve more than two consecutive terms in the same office, after which he or she cannot be elected to the same office for at least two years.*

Proposed revision: *The Chapter Chair and Vice-Chair may be elected to consecutive terms, but shall not serve more than two consecutive terms in the same office, after which he or she cannot be elected to the same office for at least two years. The Secretary and Treasurer may serve for unlimited terms.*

Chapter 24 will vote on this local revision to our bylaws during the April meeting. The National SBE recently revised the National Bylaws to allow for the National Secretary and Treasurer to serve for unlimited terms.

Submitted by Paul Stoffel



LOCAL LEGALS

Compiled by Tom Smith

Public Notices

● Application for renewal of license of low power television station WO8CK, Channel 8, Healthy's Inc., Madison, WI. The station operates from a transmitter site at 3 Pinckney Street, Tenney Building, Madison, WI.

● Three Angels Broadcasting, Inc. is required to file with the FCC, an application for renewal of low power television W54BH. Individuals who wish to advise the FCC of facts relating to station W54BH's renewal application and to whether this station has operated in the public interest should file comments and petitions with the FCC by July 1, 1993. W54BH operates from the Concourse Hotel, Madison WI.

Both of the above stations are not on the air.

WBA/SBE Engineering Seminar

Wednesday, July 14th marks the fifth Wisconsin Broadcasters Association/SBE Engineering Seminar, this year to be held at the Interlaken Lodge in Lake Geneva. The special emphasis for 1993 is "Living in the Digital World."

The topics will include digital audio, DAB broadcasting for radio and TV, and HDTV developments.

Cost remains the same as last year: \$25.00 for the sessions and lunch, \$40 includes exhibits, reception, and evening banquet. Registration information will be available soon! Don't miss it!

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Platteville Spring Symposium Notes

RDS Technology

By *Tim Trendt*

The first topic of discussion was entitled "RDS/RBDS Technology Overview and Interface Applications" by John D. Casey of RE America. Radio Broadcast Data Systems (or the European Radio Data Systems) utilizes a 57 kHz SCA on which data (text information) is amplitude modulated on a double-sideband suppressed carrier.

Being the third harmonic of 19 kHz, the 57 kHz SCA can be phase locked to the stereo pilot for a minimum of intermodulation distortion.

RE America had begun marketing its RDS encoders in the United States almost as soon as the NRSC approved the U.S. RBDS Standard in January of 1993.

RDS is not a new technology. Used extensively throughout Europe since 1986, RDS has been used to relay text information to FM listeners with RDS compatible receivers. RDS may be used to identify station format, song titles, advertising or other test information as selected by the user.

The technology is also used for emergency alerting, paging systems and automatic mobile receiver tuning between transmitters or translators.

For demonstration purposes, we installed the RDS encoder on the transmitter of WSUP. The installation was relatively painless; the encoder required a 19kHz pilot (or composite baseband stereo) for phase lock.

We used the internal 57 kHz

SCA generator of the RDS encoder, and drove the SCA AUX input of the Harris exciter (Special thanks to Harris Corp. for loaning us the External SCA jumper card to make this work). All adjustments (phase, injection level) and text input were done remotely via a computer and modem.

The Delco 'smart radio' (RDS decoder equipped) used during the demonstration didn't miss a beat. It scanned for WSUP by format, exhibited the station's call letters and would decode an alert message by suddenly increasing the audio volume (or powering up/pausing tape/etc.).

With the touch of a button, the user can read the alert message (severe weather/traffic/etc.) on the display window of the receiver. That was proof that this technology could not only be used to generate revenue, but as a means of disseminating emergency information as well.

Tim Trendt, employed in the Television Services department at UW-Platteville, arranged this collaborative article.

HDTV

By *Andy Rothschadel*

Dave Felland, as Director of Engineering and Operations of WMVS/WMVT-TV in Milwaukee, worked with Zenith Electronics Corporation of Glenview, Illinois, to test their HDTV system. During May of 1992, the proposed Zenith/AT&T Digital Spectrum Compatible High Definition Television System was broadcast over WMVT, Channel 36. Felland discussed the results of the experiment at the symposium.

Test sights were established approximately 70 miles from the transmitter in Milwaukee at the Glenview headquarters of Zenith and at a mobile test vehicle was used 40 to 50 miles from the transmitter near Lake Geneva. The signal was received at the Glenview sight with

some intervals of fading. The test vehicle received the signal without error. Interference from a low power television station transmitting on Channel 36 located approximately eight miles from the Glenview sight was minimal.

Modifications to the transmitter sight were minimal and changeover from transmitting the NTSC signal to the HD signal took a few minutes. Less power was needed to transmit the signal than what was used to transmit the NTSC signal.

Felland concluded the speech with the new developments of the FCC choosing a standard High Definition system.

During February the FCC asked the three competing consortiums of companies to work together to develop a standard that used the advantages of each of their systems. More information about a standard should be known in May.

Andy Rothschadel is enrolled in Broadcast Technology Management at UW-Platteville.

Distance Education

By *Kurt Miller*

Ralph E. Evans III of Evans Associates in Thiensville, WI., gave a speech entitled, "Concept for a Statewide Distanced Education Network." He discussed a feasibility study that was done by his firm that looked at the possibility of building a state overlay network that he called the Wisconsin Data Highway.

In preparing the study, they interviewed different organizations (K-12's, VTAE, UW, government agencies and hospitals) to determine their video, data and voice needs.

The proposed network would be constructed of all light fiber because light fiber has a virtually unlimited capacity. The network would consist of main trunks that would be redundant to anticipate possible

breakdowns. However, the last mile to the end user would be cellular in nature. The cost to end users for this was estimated to be \$1000-\$2000 per month. It was important to keep this figure low to try to insure maximum participation.

There are many major issues that would have to be tackled in the construction of such a network.

First, there must be commitment from the state government.

Next, the state service commission needs to restructure how they regulate regulated carriers, so that the original installers are not left holding the entire bill. Furthermore, funding must be established for both the design work and the network itself. Support should be provided from WEAC and businesses.

In implementing the network, use should be made of existing state facilities such as the existing State Patrol tower system and the state ITFS system.

An administrative body should be established to oversee usage of the network, and there must be maximum participation from the UW system, VTAE, K-12's, state agencies and the broadcasting community.

In closing, Evans stated that "the next few years represent a very high degree of challenge, but they also represent a good deal of opportunity."

Kurt Miller is a Junior in Broadcast Technology Management UW-Platteville.

Video Compression

By *Matt Mommaerts*

The fourth and final session of the day was the "ABC's of Digital Video Compression" presented by Richard Strauss of the Sony Business and Professional Group.

This session involved discussion about the technology related to digital processes for today and tomorrow. Furthermore, digital tech-

nology and transmission is increasing in communications. Whether we like it or not, digital compression technology is here to stay. This technology is made possible by ASICS (Application Specific Integrated Circuits) and LSICS (Large Scale Integrated Circuits).

Mr. Strauss first noted that everything is NTSC (tape machines, switchers, monitors, etc.) and that there is no flexibility with this format. HDTV will solve this problem by being digital. Digital is much more flexible than any analog format. The advantages of digital include regeneration and ease of manipulation and processing.

The main drawback with digital is the great need for bandwidth, and this is where digital video compression comes in. With digital video compression, you are not reducing the picture content, rather reducing the information to send the picture through a medium.

This "more information-less data" process is called redundancy reduction, coefficient recording or, as Sony likes to call it, bit-rate reduction. Digital video compression is really only needed in transmission or storage mediums while the baseband digital should be used for normal distribution.

Bit-rate reduction in video starts by converting the analog picture to digital square waves by using complex calculations or coefficients. Instead of breaking the whole picture down to one coefficient, it is easier to break the picture down into smaller parts and then calculate a lot of small coefficients rather than one large coefficient.

In order for compression to be effective, something has to be lost. To determine what bites should be kept or eliminated, one has to look from the receiving end and decide what is necessary. The most essential part is movement, but any noise or high frequencies are unnecessary.

Two methods can be used to accomplish this: quantize less than

the required amount of steps, or throw away some coefficients. Even though less quantization has a better compression ratio (4:1), the quality is not as good as the other method of throwing out coefficients (2:1). Therefore, loss of coefficients is the method that is used the most. The uncorrelated coefficients are the only ones that should be kept (motion), and anything unrelated should be discarded. When all of the equations are "hidden" and this process is explained in simple terms, bit-rate reduction is really quite simple to understand.

Matthew Mommaerte is a graduating senior from UW-Platteville.

Commenting about a Spring Symposium for next year, Virgil Pufahl, Department of Communication Chair, said, "Yes, the feedback was very positive."

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March Meeting Minutes

Chapter 24 of the Society of Broadcast Engineers met on Tuesday March 23, 1993 for its regular monthly meeting at CJ's restaurant in Madison. The attendance of the March meeting included 18 SBE members, 13 who were certified, and three guests for a total attendance of 21.

Chairman Jim Hermanson called the meeting to order at 7:00 PM. Secretary Fred Sperry read the minutes from the February meeting. The minutes were approved as read.

Treasurer and Newsletter Editor Paul Stoffel reported the Chapter's account balance. Paul then mentioned the deadline for articles to be submitted for the April newsletter along with the date of the newsletter folding session.

Membership Chairman Leonard Charles made mention of several membership issues including the current renewal period for National membership.

Program Chairman Steve Zimmerman an-

nounced several of the upcoming Chapter 24 programs. Special Events Committee Chairman Kevin Ruppert announced an upcoming sign-on breakfast in April sponsored by Sony. Frequency Coordinator Tom Smith had nothing new to report.

At this time, Chairman Jim Hermanson presented Chapter 24's National Liaison Terry Baun from Chapter 28 in Milwaukee. Terry commented on several issues including an upcoming Ennes Workshop taking place in Elkhart, Indiana on May 8th. Terry then mentioned the WBA/SBE conference coming up in July and indicated that a representative from Chapter 24 is being sought to assist the engineering planning committee for this years conference.

Denise Maney of the Chapter 24 nominations committee gave an update on nominations for the upcoming April elections.

In Certification and Education news, Chairman Jim Hermanson announced that Certification and Education Chairman Doug McDonell had passed away recently. A sympathy card was circulated to be sent to Doug's parents on behalf of Chapter 24. Jim mentioned that he will serve as acting Certification Chairman with the continued assistance of Tim Trendt from UW-Platteville. Jim then announced the upcoming exam period and deadline to apply.

There was no old business.

In new business, Steve Zimmerman men-

tioned a position available with Dynatech/Newstar. Anyone interested in more information on this position can contact Bob Miller at 274-8686.

Paul Stoffel then commented on recent action by the National to drop term limits for both Secretary and Treasurer Offices at a National level. Terry Baun explained that these two offices aren't considered executive positions but more administrative. For this reason, the National doesn't feel limiting the number of terms for these positions is necessary. Paul then inquired about whether Chapter 24 should consider amending its by-laws to drop term limits for both the Chapter's Secretary and Treasurer position. Discussion regarding this issue ensued.

In professional and personnel announcements, Chairman Jim Hermanson asked that anyone interested in being a speaker at the upcoming Broadcasters Clinic should contact him. Jim also mentioned a couple of job openings available with Comark. Anyone interested in further details should contact Jim.

The meeting was then adjourned. The meeting then reconvened at Grassland Media, Inc. for a tour of their facilities.

—Secretary, Fred Sperry

SBE

SBE Chapter 24 Newsletter
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Have you renewed your membership in the Society of Broadcast Engineers? To keep moving forward, SBE needs your continued support -- both at the National and local Chapter 24 levels.

Newsletter edited by: Paul Stoffel Typist: Joanne Stoffel
 Contributors this month: Tom Smith, Fred Sperry, Stan Sarch, Tom Weeden, Terry Baun, Paul Stoffel, Andy Rothschadel, Leonard Charles, Kevin Ruppert, Chris Cain, Tim Trendt, Kurt Miller, Matt Mommaerts, Ken Dixon

APRIL MEETING and PROGRAM

Society of Broadcast Engineers CHAPTER 24 MADISON, WISCONSIN

Tuesday, April 27, 1993

**5:30 p.m. Dutch Treat Dinner at Brat und Brau
6654 Mineral Point Road (at Grand Canyon Drive)**

**7:00 p.m. Business Meeting
Elections will be held for Chapter 24 officers.**

PROGRAM: The program for this month's meeting will be the annual "NAB Roundup." Members who attend the NAB Convention in Las Vegas this year are encouraged to share what they have learned and observed. This has been an interesting round table discussion in previous years, and has proven to be interesting for both radio and TV engineers. Come to the meeting and be part of the discussion whether or not you are going to be attending the NAB Convention.

Visitors and guests are welcome at all our SBE meetings!

NEXT MONTH'S PROGRAM:

- **May 19, 1993, Wednesday:** Nuclear Accelerator in Oregon, WI. Roger Otte will show our members some of the electronics behind the nuclear accelerator. Maps and dinner location will be published in next month's newsletter.

Program Chairman Steve Zimmerman

1993 Election Nominations

Leonard Charles Position Sought - Chairman

I began my broadcast career in 1974 as Chief Engineer at then WAGO AM Radio in Oshkosh. Since then, I have worked as Chief at KLEE AM/PM, Ottumwa, IA; KQDS FM, Duluth, MN; WIBA AM/PM, Madison, WI; and am currently employed as a TV broadcast engineer at WISC TV-3 in Madison.

I hold an AS Degree in Electronic Engineering Technology from the Wisconsin School of Electronics, a Diploma in Radio-TV Broadcasting studies from Brown Institute Minneapolis, a Lifetime General Class FCC certificate and SBE Certification as a TV broadcast engineer.

I am a former officer of Chapter 24 as Treasurer and two term Vice Chairman. I now serve as the SBE delegate to the Dane County Telecommunications Commission, and as Chapter 24's Sustaining Membership Chairman.

As past Newsletter Editor, I achieved the National SBE award as Best Newsletter Editor and in 1987 was bestowed with the Chapter 24 Dedicated Service Award. In my spare time I enjoy computer programming, circuit design, and an occasional round of golf.

Fred Sperry Position Sought: - Vice Chairman

I graduated from the Milwaukee Area Technical College in 1984 with an associates degree in Broadcast Communications. Upon graduation, began my broadcast career in radio as both an engineer/announcer at WTOQ/WKPL in Platteville and later as part of the engineering staff at WPAW/WSJY in Port Atkinson. In 1986 I began employment with the Educational Communications Board at WLBP-TV in Park Falls. In 1988, transferred to Madison to work at the Telecommunications Operations Center (TOC) where I'm employed as a staff engineer. I'm is SBE certified as a Senior Television Broadcast Engineer. Also served as an officer of Chapter 24 the past three years as both Chapter Treasurer and currently as Chapter 24 Secretary. Recently I Chaired the Chapter 24 by-laws committee.

Thomas Smith Position Sought: - Vice Chairman, and/or Secretary.

I have been a member of the SBE since 1970 and have been certified as a broadcast engineer. Presently certified as a senior broadcast engineer in TV and AM/M. I was originally a member of the Milwaukee SBE chapter and joined chapter. 24 in 1976. I served as secretary for chapter 24 in 1985, became frequency coordinator in July 1992.

I began in broadcasting in 1969 at KFTZ-TV until November 1972. Then went to WSAU-TV/AM and WIPC-TV in Wausau through May 1976. At that time I moved to WHA-TV. I also built WSBW-FM (now WHET) in Sturgeon Bay in 1982. Also that year I started at WLVE (now WOLX) as a part-time engineer for six years. The last four years. I've done consulting and service for a couple of Madison production houses.

I would like to be an officer of Chapter 24 because I feel strongly about this organization and industry, and would like to be active in helping shape the future of TV.

Paul Stoffel Position Sought - Treasurer and/or Secretary

I currently hold the Office of Treasurer. As an Officer, I have been, and I would like to continue to be, involved with the decision making processes that will keep SBE Chapter 24 a strong and active chapter. Since May of 1992, I have volunteered to be the Chapter's Newsletter Editor. I plan on continuing in that position. Also, I have supported our newsletter by submitting many articles.

For thirteen years, I have been employed at Wisconsin Public Television, the last two years as Engineering Operations Supervisor at Vilas Hall on the University of Wisconsin Campus.

Kerry Maki

Position Sought - Secretary

Attended UW-Platteville from 1975-79, graduated with a B.S. in Radio/TV Broadcasting. Worked part-time at WNTV August 1978 to May 1979. Then worked in Cedar Rapids, IA as a master control operator from May 1979 to June 1980. Returning to WNTV as full-time production/maintenance engineer. In June 1990 I accepted the position as Assistant Chief Engineer at WNSN-TV, was promoted to Chief in March 1991. Since then, I felt the need to stay better informed not only about broadcasting in general, but also on what is happening in the local broadcast community. The SBE is the best answer to both. I just recently applied for membership and Broadcast Technologist certification. I currently hold a Lifetime General Class FCC license. I am looking forward to becoming involved in the Chapter 24 activities.

1993 ELECTION NOMINATIONS
OFFICIAL BALLOT

Position Sought - Chairman

Leonard Charles _____

WRITE IN VOTE _____

Position Sought: - Vice Chairman

Thomas Smith _____

Fred Sperry _____

WRITE IN VOTE _____

Position Sought - Secretary.

Kerry Maki _____

Thomas Smith _____

Paul Stoffel _____

WRITE IN VOTE _____

Position Sought - Treasurer

Paul Stoffel _____

WRITE IN VOTE _____

Mark your choice with an "X" on the line after the name of the person listed.

The blank line below the nominee of the committee is for any "write-in" votes. List the name of your choice and mark an "X" on the line following the name.

Only current members of the Society of Broadcast Engineers, Chapter 24, may cast ballots in this election of officers.

The election of officers will take place at the Chapter 24 meeting on April 27, 1993.

Those members who are unable to attend the meeting may vote by mail. Mail ballots must be received by April 26, 1993.

Send to:

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5606 Medical Circle
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