

All the Electrons that are fit to flow.



OSCILLATOR

The Official Newsletter of the DVHRC

Vol. 12, No. 11 Dec., 2004

Happy Holidays with the DVHRC...and our Banquet

November Meeting Notes and Minutes

Reported by Dave Snellman

The regular monthly meeting of the DVHRC was held on November 9th at the Telford Community Center. Our President, Mike Koste, called the meeting to order at 7:30, the usual time.

First order of business was the announcement of the December holiday party. It will be held at our regular December meeting time. The holiday party will include the usual good food, desert, and drinks. There will also be a gift exchange. Anyone wishing to participate should bring a wrapped gift worth \$5.00 or more. Tickets will be distributed to all the participants and the festivities will start.



The club would also like to acknowledge the generosity of Jim Tannenbaum. Jim donated around 2000 empty tube boxes and many AC line cords to the club. We thank Jim for this generous donation.

By the way, Jim Tannenbaum announced a warehouse sale to take place on the Sunday after Thanksgiving.

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NEXT MEETING TUESDAY, DEC 14TH, TELFORD

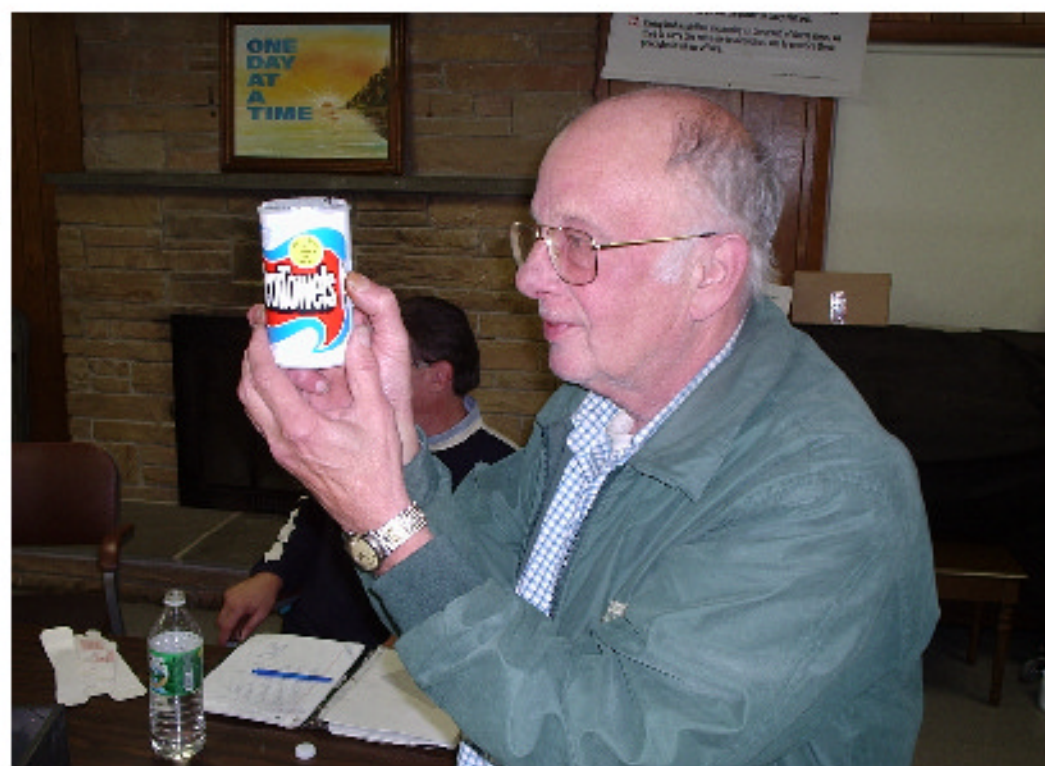
Next Meeting Program

Happy Holidays with
DVHRC

Elections and Holiday Party
Gift Exchange and Buffet
December 14, 7:30pm
No Auction this month

Meeting Notes continued from Page 1

Thanksgiving. Tannenbaum is consolidating the business and the warehouse is up for sale. SAM's PhotoFacts, tools, filing cabinets, and restoration supplies are available. (As the weather was bad on the Sunday after Thanksgiving, another will be held in December. Please contact Tannenbaum at www.agtannenbaum.com for details. They have to be out of the warehouse by mid-December.)



Stan Saeger is still looking for a few good radios. A few good radios to be put on display at the Southern Lehigh Library, that is. Please contact Stan at the December meeting.

The club has received a set of the Bret Saylor restoration videos. We're looking for some club members to review and evaluate these and to do a future presentation on them – or possibly an article for the *Oscillator*. Lewie Newhard volunteered to review the advance tapes and Mike Lobus volunteered to review the introductory tapes.

We would like to acknowledge Dan Collins, board member and our webmaster, as he is planning to move to Arizona in 2005. While Dan will not be on the board, he will remain our webmaster.

Speaking of the board, it's time for the annual nominations for next year's board. Nominations were opened and here are the nominees as they were nominated

Newsletter of the

Delaware Valley Historic Radio Club

P.O. Box 5053

New Britain, PA 18901

www.dvhrc.org

The Oscillator is published monthly by members of the non-profit DVHRC. Its purpose is to provide information on restoration, information on our club and communicate with collectors and producers of vintage radio technology.

We welcome and solicit information relating to radio history or collecting. Submissions should be on fully revised, typed and accompanied with clear photographs or drawings. Material on discs should be in Word and Jpg format.

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Personal views, opinions and technical advice offered in this newsletter do not necessarily reflect those of the members, officers or Board of Directors of the DVHRC, nor is the organization responsible for any buying or selling transactions incurred.

To join DVHRC dues are \$30 per year. The membership year runs January - December. Please mail us the club P.O. box above. Meetings are held the second Tuesday of the month at 7:30pm in the Telford Community Building, Telford, PA.

DVHRC BOARD OF DIRECTORS

Dave Abramson

Mike Koste

Lewie Newhard

Bill Overbeck

Dave Snellman

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Jay Daveler

OFFICERS

President: Mike Koste

Vice-president: Dave Abramson

Secretary/Treasurer: Dave Snellman

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Material submitted is subject to acceptance and editing by the editor. A full page article is approximately 400 words. Please photos may be submitted for scanning. JPG files should be under 100K.

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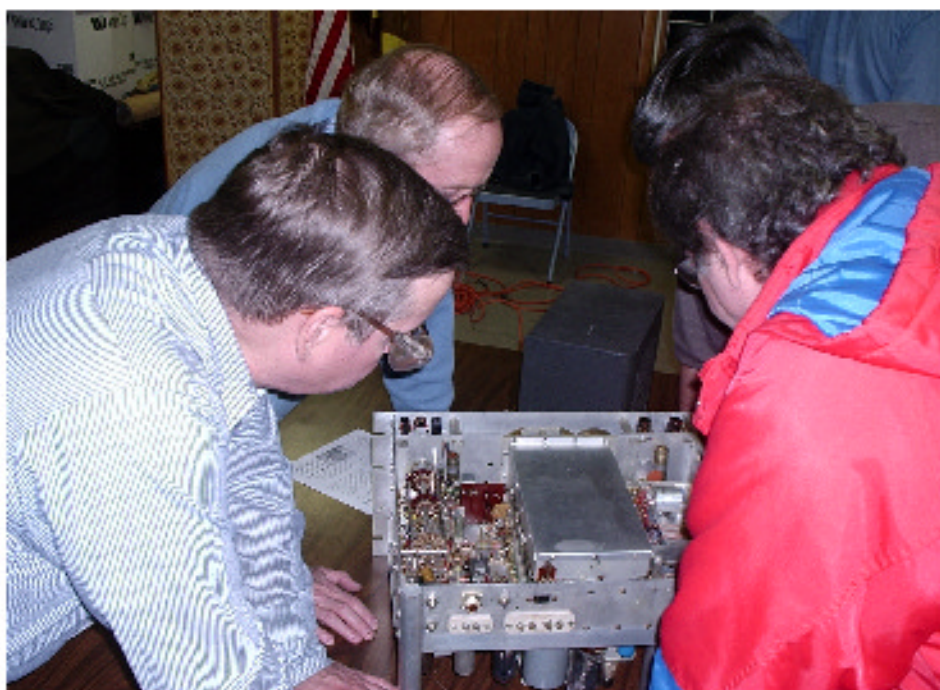
Dave Snellman, Mike Koste, Dave Abramson, Lewie Newhard, Al Klase, Mark Thierback, and Bill Overbeck.

From these seven, five will be elected at the December meeting during a vote by all members in good standing that are present that night.

Ted Sorwicka mentioned a display at the Sellersville hamfest that detailed early television. Maurice Shechter was the presenter. Among the items he displayed included how the military used early television.

Some "show and tell" items were presented. Stan Saeger showed a "different" tube he came across. Turns out it's a HY114B tube – a number of our members recognized it immediately.

Charlie Class presented a radio his wife



found. It was a Scott Towel commemorative transistor radio - shaped like a roll of toweling (of course.)

Hank Mohr mentioned that disposable cameras contain a 160 volt, 360 mfd capacitor. It could be used for a replacement. The disposable cameras are available for the asking at many film-developing places.

Louis Poli planned to give a presentation on the Hammerlund SP-600 JX receiver. This is a wide-range, general coverage radio receiver. The tuning range is from

500 kc/s to 54 mc/s. Louis also has the low frequency version of this set that tunes from 20 kc/s to .54 mc/s. These 87 pound sets are "built like a battleship." Hammerlund made them under various contracts through the 1950's. The "JX" version includes 6 crystal controlled frequency settings. It's a good sounding set due, in part,

various contracts through the 1950's. The "JX" version includes 6 crystal controlled frequency settings. It's a good sounding set due, in part, to a 6V6 audio output stage. There are several bandwidth settings, including three that are crystal controlled. The set has one of the smoothest tuning mechanisms that I've ever experienced.

Unfortunately, as Louis was about to show off the set, a "cap" – probably a "black beauty" decided give out. A



slightly acrid order began to fill the front of the room. While we all got to admire the workmanship that went into the set, we'll have to wait for the "real thing." I'm sure when Louis solves the problem, he'll bring the set back to let us "hear" as well as see.

We closed the meeting with the usual auction.

The December meeting will be held on Tuesday, December 14, 2003 at the Telford Center at 7:30 PM. It will be our annual holiday

party, so there will be no auction.

Remember that 2005 dues are due and can be paid at the meeting, or you can send a check to the club at: DVHRC, PO Box 5053, New Britain, PA 18901.



The Radio Collector's Library by Dave Snellman

This installment will cover tube manuals offered by firms other than RCA. (We covered RCA in the last issue.)

General Electric had a series of manuals called the "Essential Characteristics." Most editions were spiral bound. The 1963 edition (10th edition) included information on receiving tubes, "five-star" tubes, special-purpose tubes, picture tubes and capacitors! Some basic tubes circuit examples can also be found in the book. Interestingly, on page 294, they provide construction data for loudspeaker enclosures! The capacitor section deals mostly with tubular and electrolytic caps offered by GE. The covers of the manual serve as a "catalog" of various service aids available from GE, from publications to capacitor kits, to tube caddies.

GE "Essential Characteristics" manuals are readily available at swap meets. Re-prints of them are also available from vendors like Antique Electronic Supply. GE also offered the "GE Transistor Manual" as solid-state devices began their inroads in the 1960's.

Sylvania offered manuals known as the "Sylvania Technical Manual." It first appeared in loose-leaf form with updates by subscription. Early loose-leaf editions had green covers while later ones had black covers. Sections of these manuals contained information on receiving tubes and on CRT's. There were detail sections and "condensed" sections. The later giving limited information in table form. In the appendix of one edition it lists instructions for handling and installing CRT's. Anyone working on TV sets should be aware of these considerations. Later editions were bound volumes and contained both radio, TV, CRT, and solid-state device information



Tung-Sol also published a set of tube manuals. As Tung-Sol produced some high-end power amplifier tubes, you might want to latch on to one of these manuals if you get the opportunity. Another Tung-Sol publication that might not be as common as some others is called "Tung-Sol Premium Tubes." The cover of this

spiral-bound booklet describes premium tubes as "designed for service under severe conditions of shock and vibration in military and industrial applications." Some examples of tubes in covered include: 6L6WGB, 12AT7WA, 5654/6AK5W/6096, and 5814WA.

EIMAC, a manufacture of power and special-purpose tubes published a book on their offerings. EIMAC's Care and Feeding of Power Tubes, probably of more use to "hams" than to radio collectors; however, the information presented is very informative. EIMAC also offered information on the tubes they manufactured in a form that could file a binder.

The accompanying photo illustrates a variety of manuals by many manufacturers. Westinghouse, Sylvania, RCA, GE, EIMAC and Tung-Sol are represented here. The photo was taken in the library of the Historic Electronic Museum, Baltimore, Maryland – by the way, a great place to visit.

There is a military tube reference that can be of use in identifying a tube's functionality. The Military Handbook – Electron Tubes, Cross Index and Type Identification, designation MIL-HDBK-213A is dated 5 November 1963. The introduction states "The purpose... is to provide as complete a list as possible of electron tubes used in Armed Services equipments or stocked in depots, together with a cross reference..." At a little over 300 pages, it is quite complete.

"The purpose... is to provide as complete a list as possible of electron tubes used in Armed Services equipments or stocked in depots, together with a cross reference..." At a little over 300 pages, it is quite complete.

Last, but by no means least, there is a tube reference book that transcends all manufacturers. It contains vital information on almost any type of tube you might encounter, from the pre-RMA designations to special-purpose tubes. CRT's and other display tubes are also included. From it, you can learn the tube's functionality, its manufacturer(s), and even possible substitutions. The book is Tube Lore. The author is DVHRC member and former Oscillator editor Ludwell Sibley. This book is designed to supplement other tube manuals in your collection, not to replace them. It's readily available directly from Lud, or from antique radio book vendors. Supplements keep this book as up-to-date as possible. Pick up a copy – you won't regret it.

That concludes our look at tube manuals. While mainly designed for engineers, techs can learn much from these books. How a tube is used and typical operating parameters are just two uses.

These books are also collectible – add a few to your collection.

Stay tuned.

NOTICE OF ANNUAL MEETING

Under Articles of Incorporation (Domestic Non-Profit Corporation) established November 11, 1994, notice is hereby served of the Annual Meeting of The Delaware Valley Historic Radio Club (DVHRC) at 7:30pm on Tuesday, December 14, 2004 at the Telford Community Center, Madison Avenue and Hamilton Street, Telford, Montgomery County, Pennsylvania 18969.

The Annual Meeting as specified in Article IV of the DVHRC By-Laws shall be held for the specific purpose of selecting the DVHRC Board of Directors for the calendar year, 2005.

Members of The Corporation in good standing shall select a board, five (5) in number to serve during the period of January 1, 2005 until December 31, 2005.

Nominations to The Board conducted on November 9, 2004 include:

Dave Abramson, Al Klase
Mike Koste, Lewie Newhard
Bill Overbeck, Dave Snellman
Mark Thierbach

Board election shall be by paper ballot with each member entitled to one (1) vote for each Board member. Voting may not be by proxy.

The Annual Meeting of members shall not be organized for the transaction of business unless a quorum is present. The presence in person of twenty five (25) of the members entitled to vote shall constitute a quorum. If the meeting cannot be organized because a quorum has not attended, the business of the Annual Meeting may be resumed and conducted at such a time and place as determined by the Officers of the DVHRC.

Signed,
Dave Snellman, Secretary
Delaware Valley Historic Radio Club

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.0047
.0068
.01
.022
.033
.047
.1
0.22
0.47
1.0

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