



The Grid Leak

JANUARY, FEBRUARY, MARCH – 2022

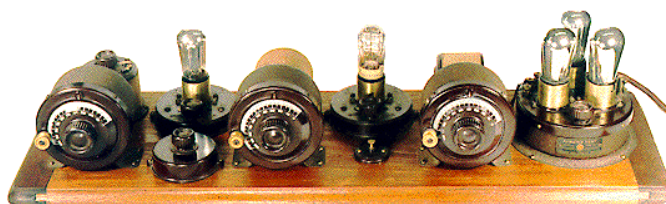
2022 ANNUAL CONVENTION AND AUCTIONS

MARCH 4TH, 5TH AND 6TH



UPCOMING EVENTS

- ANNUAL CONVENTION AND AUCTIONS; MARCH 4TH – 6TH
- GENERAL MEETINGS AND AUCTIONS.
- GREATER HOUSTON HAMFEST APRIL 16TH
- SARGENT AUCTION



WHATS INSIDE

- OFFICER CONTACT LIST
- PRESIDENT'S MESSAGE
- EVENT SCHEDULE
- CONVENTION UPDATE
- REPAIR AND RESTORATION ARTICLES

HOUSTON VINTAGE RADIO ASSOCIATION

Since its founding on November 16, 1978, the Houston Vintage Radio Association has been dedicated to the preservation of vintage radios, electronics, and phonograph equipment.

Our members across the USA have varying backgrounds and experiences but are brought together by a common interest in electronics. Many interests represented in our organization include: preservation and restoration of vintage electronics including tube and transistor radios and TVs, phonographs, telephones and cellular communication equipment, telegraph equipment, HAM radios, amplifiers, PCs, relevant literature, recordings, etc.

HVRA COMMUNICATES WITH MEMBERS ACROSS SEVERAL PORTALS:

- The Grid Leak is the official Newsletter, currently published quarterly, distributed primarily by email (and by USPS as necessary).
- HVRA maintains a website, HVRA.org, used for information regarding future events, current activities, contact and operations information, and historical data including photo libraries and past newsletters. Additionally, HVRA information and activity descriptions can be found on Facebook.
- Our normal means of face to face communication is through monthly Board of Directors' meetings and monthly General Membership meetings located at the Bayland Park Community Center;. We have also used Zoom sessions for Board Meeting from home (as necessary) as well as offsite swap meets at alternative locations.

DISCLAIMER

The sharing of information pertaining to restoration and repairs, of any items, appearing in any form, contained in any of the HVRA communication methods, is contributed by members hoping to help and/or assist others in efforts to advance the education of collecting vintage electronics. Therefore, the reader or listener is advised to contact the contributor for a full understanding of the electronic, mechanical, and chemical risks involved in the information of interest. HVRA is not responsible for the accuracy and safety of any repair or restoration topics presented in any format.

MEMBERSHIP

Annual Dues: \$20.00; normally payable prior to the HVRA Annual Convention
Membership Applications available at General Membership Meetings or on HVRA.org

HVRA BOARD MEMBERS

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From The President..... Bill Werzner

Looking back at my 4th qtr 2021 message I mentioned the proverbial “ELEPHANT IN THE ROOM”, that nasty COVID virus and its offspring, that continues to mutate and is again displayed in the graphic spikes we see on the evening news. So it looks like we are going to be wearing masks and maybe getting more booster shots as time progresses. In Israel they are now urging a fourth booster shot! Please keep your guard up, observe all precautions, and minimize risk of illness.

You have heard of my own close call the last week of October. For several weeks I had begun feeling tired and, sometimes, a little dizzy doing small chores. I wasn't too concerned and attributed it to getting old after turning 78 in August. My pulse one afternoon was 42, checked with my doctor, sent to the cardiologist, given orders to take it easy and to come in on Monday. Yes, time for a pacemaker – a routine outpatient procedure at Hermann Memorial; all went well. My cardiologist suggested I spend the night in the hospital just to be safe, I did. After a late dinner I went to bed and awoke few hours later, around midnight, to all the lights on and a half dozen staff standing over me. What happened? Evidently my heart monitor went off; they responded quickly and found me near death. They performed CPR and reset my heart with an electrical shock, said my heartbeat was 200 beats per minute, then it lined out, and I was at death's door. I thanked them for saving my life; had I declined the cardiologist's suggestion to spend the night and get wired with a heart monitor, I would not be typing this article today! I was off to intensive care for the next three days. An angiogram found I had 90% blockage in my right ventricular artery. Three stints were installed and I was back home outfitted with a 4.5 pound cardio monitor following six days in the hospital. I was instructed to wear the monitor and its connecting life vest for another 4 to 6 weeks. So far everything is going well, but wearing this monitor 24/7 isn't fun especially when trying to sleep.

Now it's time to get down to HVRA business and urge one and all to pitch in. We have a lot of work to do especially with all the estates stacking up. Looking back, we held two very successful Saturday morning swap meets with auctions at Electronic Parts Outlet on October 30 and again on December 4. V.P. Lewis Britain took the gavel and discovered he had a new talent – auctioneer! This is a welcome relief for me knowing that our club not only has a reliable, vice president, but also an auctioneer.

HVRA Post Office Box Expense Update

As we move into 2022, our treasury remains stable and healthy. We paid our liability insurance premium so we're covered for the year. Another expense though I feel we need to address is the ever escalating annual cost of our SMALL post office box with rental now approaching \$200.00! We have held this box for many years and when I received the notice of the latest rent increase due I was shocked. Membership renewals are often mailed to our P.O. Box # 31276 and arrive incrementally throughout the year. Just prior to our annual convention there is usually an increase in mail and then things taper off. I live within walking distance of the post office but, due to a serious arson fire the end of May, the building has remained closed to the public. To obtain mail, we have to line up near a side entrance where a postal clerk takes box numbers and brings mail to those of us standing in line. As a U.S. Army veteran I don't mind standing in line as long as it is manageable, which it usually is. However, that rental fee is approaching half the cost of our annual liability insurance premium. Rather than fork over the annual fee of \$188.00, I chose the option of paying a six month rental fee of \$94.00 to cover us through the month of June. This will cover us through the convention and give us time to consider other options for receiving mail.



December 4, 2021 Swap Meet

From The President (continued)

HVRA Meetings and Alternate Meeting Site Plans - Should the Need Arise

None of us can look into a crystal ball and foretell the future holds for our meeting schedule. This is an update from what I know and what I can predict will happen should circumstances dictate changes in the event schedules presented in this quarterly publication. No, I don't have a crystal ball here by my computer, and I am not reading the palm of my left hand (if you are wondering about palmistry, read my article in the previous GL about a strange experience that happened to me almost fifty years ago). So, here we go! Our meeting schedules and convention dates are still valid as of this writing. However, this pesky COVID virus is still playing havoc among our population and could adversely impact our plans, should the powers that be, decide to go for gathering restrictions. I will stay in close contact with the Bayland Community Center and should it be instituted, a memo will be issued in a news blast that could occur on short notice, so be prepared. In the event that this happens, one option will be for us to arrange a meeting along with swap meet and auction under the tents in EPO's rear parking lot (weather permitting). I discussed this with the owner yesterday, and he extended his welcome for us to meet there should the need arise. Across from EPO's parking lot is the Ice House where we held several auctions in the past until it closed.

According to EPO's owner, the Ice House is still undergoing renovation in preparation for reopening sometime, hopefully this spring. Their reopening has been delayed due to obtaining the necessary permits and licensing from the City of Houston. I will rely on EPO for any news regarding their plans for opening and pass it on to you via news blast if and when it occurs.

My major concern is with our March convention should a county wide shutdown go into effect. If this occurs, our only option would be to postpone it once again, so pray this does not happen. As most of you are aware, we are still awash in estate items that we must sell. Current plans are for us to pull around two hundred or so, of the nicer and more desirable items, to be sold during the convention auctions. Watch our website for photos and an auction manifest. This will allow adequate space for members' items to be sold during the Friday and Saturday events. There will also be many estate items still left in storage, post convention, to be sold either during monthly meeting auctions, or in EPO or Ice House weekend auctions. Again, there we will have to consider springtime weather conditions, possibly on short notice, as to go, or no go. As ya'll are aware, the springtime weather here can, as they say, "change on a dime"! Take care, watch out for COVID, and before our events, say a weather prayer as general Patton did during WW II, it worked for him, maybe it will work for us too.

2022 EVENT CALENDAR

January

11th, Tue. Board Meeting 7:30 PM via ZOOM.

29th, Sat. General Meeting 8 - 11 AM donuts, coffee, juice & snacks. Program: "Troubleshooting With the AM Signal Generator". Auction will follow.

February

8th, Tue. EPO: Basic Electronics Class 1 to 3 PM

8th, Tue. Board Meeting 7:30 PM via ZOOM.

26th Sat, General Meeting 8 - 11 AM donuts, coffee, juice & snacks. Program: TBA. Auction will follow

March

4-6th, Friday thru Sunday. Annual Convention, Houston Marriott North. See Convention Articles in this GL and at HVRA.ORG

8th, Tue. Board Meeting 7:30 PM via ZOOM.

26th, Sat. General Meeting 8-11 AM donuts, coffee, juice & snacks. Program: TBA. Auction will follow

April

12th, Tue. Board Meeting 7:30 PM via ZOOM.

23rd, Sat. General Meeting 8 - 11 AM donuts, coffee, juice & snacks. Program: TBA. Auction will follow.

WEBMASTER NEEDED

HVRA is looking for an individual to take over the maintenance and content for the hvra.org website. In this role you would be a board member appointed by the president and you would work closely with all the other board members to help keep HVRA's presence on the internet up to date and informative. Additionally you would help us all understand better ways to keep in touch with the general population via other social platforms such as twitter, facebook, etc. So if you have experience with website maintenance or have a technical background in IT or engineering and are up for a challenge we would love to hear from you.

All interested members can contact one of the following:

Bill Werzner, President: werz1943@gmail.com

713-820-1778

Steve Scheel, At-Large Position IV :

targeteye1@gmail.com, 281-687-5771

ANNUAL MEMBERSHIP DUES (\$20)

As previously discussed, we anticipated using the Oct. 2021 convention as the uniform renewal date for all members. With the postponement until March 4-5, 2022, the Board of Directors agreed to make the following adjustments to your renewal date:

- **Member in good standing as of July 1, 2021:**
 1. Membership expiration was extended to January 31, 2022
 2. In order to attend the March 2022 convention, you must renew, and the new expiration date of your membership expires a day prior to the next convention (2023 date TBA)

- **New members after July 1, 2021:**
 1. Membership expires the day before the 2023 convention (date TBA) and are eligible to attend the March 2022 convention with no additional membership dues)
- **After the March 2022 convention, all members will be on a universal membership expiration date that expires the day prior to the 2023 convention date.**

If you have any questions concerning your membership status, renewal date, or bid numbers, please contact Brett Martin, HVRA Treasurer, at bmartin2021@gmail.com or 713-408-2505

For those needing a new membership renewal form, one can be downloaded from HVRA.org

HVRA welcomes our new Texas members :

Chris Brooks Houston

Ron Taylor Houston

Shaun Toole Houston

Greater Houston Hamfest Cancelled BUT.....

Due to the rise of COVID infections and other issues, The Greater Houston HamFest will not be held in 2022. However, after careful consideration and detailed planning (read - a spur of the moment thought), there will be a replacement. **This year will mark the beginning of the Greater Houston Tailgate or the GHT.**

This will be an informal event held at Duhacsek Park in SW Houston. The date is April 16th and will be held from 7 am to 3 pm. In addition to the tailgate there will be license testing, exhibits, food sales, and equipment raffles. All tailgate sales will be held outdoors in the main parking lot of the facility with parking in the grass south of the parking lot.

Admission will be simple –\$5 per vehicle, Whether you are selling or buying, the entry fee will be \$5. People will be able to pay as they drive into the park and from there, they can either park to sell or park to buy.

The raffle will have two main prizes – an IC-718 HF radio and an Anytone AT-D878UV11 DMR handheld radio. The raffle tickets will be sold at the tailgate and on line.

More information for the GHT and the raffle tickets will soon be on the Greater Houston Hamfest website and weekly e-mail blast so stay tuned.

Hope to see everyone at the Greater Houston Tailgate on April 16th.

Greater Houston HamFest Committee.

CONVENTION UPDATE:**TWO DAYS OF AUCTIONS, SWAP MEETS, CONTESTS, LECTURES,
GUEST SPEAKER AND BANQUET**

Auctions include items from active members and estates from deceased members, including test equipment, tubes, speakers, console radios, catalins, tabletop cathedral and tombstone style radios, amateur radio equipment and much more...see manifest: www.hvra.org

Location: Houston Marriott North (Greenspoint) 255 North Sam Houston Parkway East, Houston, TX 77060

Discounted Room Rates, including free Wi-Fi, \$85.00 per night + tax (King or 2 Queens) from Thurs. Mar. 3rd thru Mar. 5th (Check - out Mar.6th). **NOTE: Discounts apply to reservations made prior to Feb. 21, 2022** (unless extended). Contact 1-281-875-4000 (or the **Marriott Web Link** - <https://www.marriott.com/events/start.mi?id=1634241344887&key=GRP>, see **HVRA.org**;

Discounted Breakfasts: \$15.00 per day for HVRA Members and their guests.

Convention Theme: Atwater-Kent Radio, Its Development and Marketing. In addition, we will have a presentation on safe handling of hot chassis radios.

Convention Event Schedule:**Friday, March 4, 2022:**

Registration; Old Equipment Contest Check-in (see contest rules); In-Door Swap Meet by table reservation; Auctions #1 and #2 beginning about 4PM: including paper, tubes, test equip., speakers, plastic/bakelite radios, misc. (\$5 Min. Bid); Mid-afternoon Cash Lunch Concession furnished by Marriott.

Technical Session: (11 AM - 1:00 PM)

Presentation: TBA, See HVRA.org for updates

Saturday, March 5, 2022:

Registration, Old Equipment Contest, In-Door Swap Meet by table reservation, Auction #3 beginning about 11AM: including wood radios, consoles, valuable speakers, and tabletop radios (\$20. Min Bid), Cash Lunch Concession, Awards Banquet Dinner (\$30). Guest Speaker: Ted Oberg, Channel 13 investigative reporter. Afternoon Cash Lunch Concession furnished by Marriott.

Sunday, March 6, 2022:

Post Convention Swap Meet (no reservations necessary) 7AM - 11AM, Room TBD.

CONVENTION REGISTRATION & AUCTION RULES

- All auction bidders and sellers must be active HVRA members (\$20 per family)
- All bidders and sellers must register and receive a registration number.
Registration: \$15 before Feb. 15, 2022; \$20 on-site (one registration per family or bidder).

- Commission from Sellers = 15%
Estate Sales: as per pre-auction negotiated terms
- Sellers and Buyers settlements at conclusion of each day's auction activities
- Old Equipment Contest participants must be active members and registered for this convention.
- Swap Meet Note: Limited space; please contact Lewis Brittain for details.

Registration forms available at all HVRA meetings, **last page of this Grid Leak** or at www.HVRA.org.

Look for updated information and final schedules in Grid Leak or on website.

For questions, please contact Lewis Brittain
(britfam1@juno.com) 713-517-8722

**SATUDAY EVENING AWARDS BANQUET
GUEST SPEAKER
TED OBERG
KTRK CHANNEL 13**



Eyewitness News Reporter Ted Oberg thinks he has the greatest job in local news anywhere. His Ted Oberg Investigates reports air on our 6 & 10 O'Clock newscasts and strive to look beyond telling you what happened today. We hope they tell you why things are happening in your community and let you in on the secrets those in power want to keep to themselves. We give Ted more time to research and report topics that need a little extra explanation. Whether it's a political race or a breaking news story there are always reasons why things unfold the way they do and that is what his Ted Oberg Investigates pieces strives to explain. Ted's been in Houston since 2001. He and his wife, Krista have 3 wonderful daughters. After 10 years in the wonderful Houston Heights, they now live in The Woodlands.

CONVENTION UPDATE: OLD EQUIPMENT CONTEST

Contest Chairman Tom Taylor

NOW is actually the time for the (final) selecting and planning of your convention contest entries. Your board members have voted to adopt Atwater Kent and all its related products as our focus. With memories of 2020 soon to be behind us there may come a time when you consider what have you to show for that segment of your life. One thing is for certain, the realities of normal life including an HVRA Annual Convention will return with the chance for such an assessment as you sit in the convention auction. Knowing that, I need to clear my conscience and help you put your radio exhibiting contest goal in perspective.

2022 OLD EQUIPMENT CONTEST CATEGORIES

1. Wireless/Spark Equipment
2. Crystal Receivers and Related Crystal Equipment
3. 1920s Battery Receivers
4. Cathedrals, Tombstones and Consoles (wood)
5. Table Receivers, Tube (wood)
6. Table Receivers, Tube (non-wood)
7. Transistor or other Portable Radios
8. "Modern" Electronics, 1980's to the present Electronic Equipment and Electronica {Examples include vintage computers, "modern" radio equipment and recent unique electronic and computing items}
9. Phonographs, Speakers, Reproducers, Microphones
10. Miscellaneous Vintage Electrical Equipment (Examples include Telephones, Telegraph, Scientific Test Equipment, Electrical Devices and Television)
11. Kit Radios and Equipment (At Least 10 Yrs. Old)
12. Hi-Fidelity Equipment
13. Amateur Radio Equipment (At Least 10 Yrs. Old)
14. Military Electrical and Electronic Equipment
15. Replicas and Vintage Style Creations
16. Foreign Radios
17. **Special Convention Theme:** Atwater Kent and all items carrying the manufacturer's name
18. Components, including Vacuum Tubes
19. Open Display

Your judges will look for these items and I believe its in the order shown

Is it Rare

- Is it rare for this contest category?
- Was the Manufacturer short lived?
- Is it rare for this manufacturer?
- Is it a rare example of this model number?

Philadelphia, 1925. Frank Aiken and Atwater Kent at the new Atwater Kent radio factory.



Documentation

What is unique about your exhibit? Is it the materials used, perhaps something about the chosen wood, its construction or the electronic design which was preceded and then followed by what circuit features? Where was it built, for how many years? Was there a famous owner in its past or was it known by a "nick name"?perhaps.....the "Nick Knack" radio. At minimum, you should include information that identifies the radio manufacturer and model, the year built, and what is special about this radio or set of radios. Most award winning displays and exhibited items use a card or some other display device that shows the key information about the radio or item on display. Generally speaking, more documentation is better than no documentation.

Cosmetics

Is it clean and unblemished with all the correct 'as built' knobs and trinkets? BTW, missing trinkets will cost you every time. Have you stooped to use of Polyurethane or excesses of sand paper?

Functionality

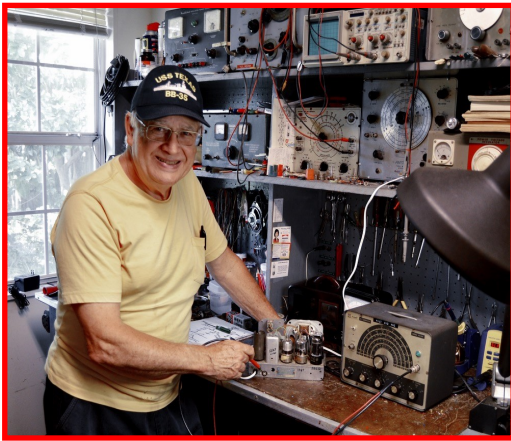
Only in the event of a tie will this become of interest so put your efforts elsewhere if a ribbon and one of the remaining, highly coveted, budget straining, walnut plaques is your goal.

CALL FOR VOLUNTEERS

Auction Handler Volunteers

With the upcoming HVRA Convention this March we need volunteer "Handlers" in support of the auctions on Friday and Saturday. We will need help in the "Drop-off Room", the "Auction Hall", and the "Pick-up Room". If you would like to volunteer to be a handler, please contact Joe Gernand at gernandjoe793@gmail.com.

Additionally, volunteers will also be needed in the following areas: front registration table, Old Equipment Contest Room, Auction Room assisting treasurer as manual back-up recorder and working with auctioneer as bid and sale recorder. Please contact Lewis Brittain at [713-517-8722 or britfam1@juno.com](mailto:britfam1@juno.com)



The Trouble Shooter

Bill Werzner

A Tube Tester Disagreement -

Is The Tube Good OR Really Bad ?



Knight 600 B Emission Tube Tester (Allied Radio kit 1962)

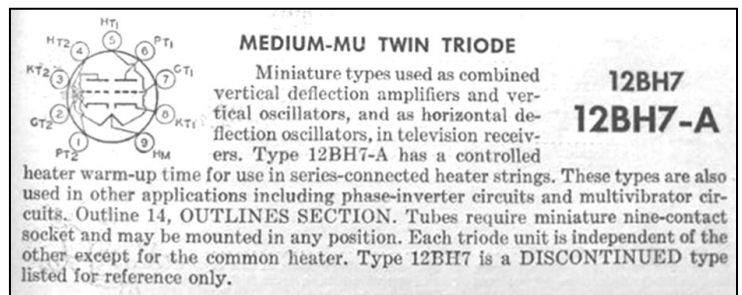


TV 7 Mutual Conductance Tube Tester (military unit)

About five years ago a customer brought in a very nice Mc Intosh stereo amplifier and preamp that had a weak and distorted channel. I don't remember the exact model, but both units were very clean and well cared for. I gave both the usual visual exam and with nothing obviously wrong under the chasses i.e. overheated resistors, suspicious looking capacitors, or cold solder joints, I proceeded to the next step, tubes. Since this was a high class amplifier, I used my recently rebuilt and calibrated TV 7 tube tester. The tubes consisted of a quad of 6L6s, 5U4, several 12AX7s and a couple of 12BH7A's.

All the tubes tested showed very good emission with most looking almost new despite their age. When powered up, the left channel was indeed weak - about 50% of the right channel's output. The B+ voltages, plates and screens were normal. Something didn't seem to make any sense, but I had a hunch that something was wrong with the 12BH7A tube on the left channel. Both that tube and its matching companion in the right channel tested equally good. Then I began to suspect something was wrong in the tube socket. I switched all the preamp tubes from left to right, powered up the amplifier, and now the right channel was weak and the left channel was normal. To isolate the problem tube, I then switched the tubes one by one and discovered the 12BH7A was causing the trouble. What could possibly be wrong with that tube that tested almost like new in my TV 7 tube tester? I hauled out my trusty old Knight Kit 600 B and the tube tested ZERO, this explained the epiphenomenon. Sometimes we overlook the obvious assuming that troubles like this originate in the higher voltage section, however this was in the tube filament with an open or bad connection.

Take a look at the tube diagram below for a 12BH7A filament. The TV 7 filament setting was set to 12.6 volts between pins 4 and 5, ignoring the filament tap to pin #9, but the Knight 600 filament setting was for 6.3 volts. The amplifier used a 6.3 volt filament supply and from the diagram you see the filament is tapped so that each half of the filament is powered with 6.3 volts. This is why one tester tested good, and the other tested bad. Be mindful of this especially when testing tubes of these genera. If I had allowed the tubes a few minutes to warm up in the amplifier, I would have noticed one was not heating properly, or possibly not at all, and nailed it there. Other 12 volt tubes like this having a tapped filament include the 12AX7, 12AV7, 12AU7, 12AT7, 12BH7, 12BZ7, 12BY7 and I'm sure there are a few more. So, you can see the testing problem with a bad filament tap connection in these common tubes.



A LOOK AT LOTT-A-3d PRINTERS by Ron Carroll

Hi, my name is Ron Carroll (sole proprietor of Lott-A-Radios and Lott-A-3d-Printers) and a retired state employee, who cannot stop working. Before my retirement I was active in gold prospecting in the summer and vintage radio collecting and restoration in the cooler months and thought that was going to be my life after retirement; not so, I had gotten bit by the 3D printing craze, in about 2010.

Of course that 3d printing thing, as it was called at first, was a weekend only project that grew from a cheap Chinese clone machine of about \$200.00, to 20 machines ranging in price up to \$3000 each, in about seven years. Of course you need a place to put things; a new shop was just the thing, except for the one thing standing in the way, \$\$\$\$.

Well my rainy day had come and my stash of \$\$\$\$ was not enough to buy a complete shop, but was enough to buy a shell 12'x24' building, have a pad installed, have the build set, and have an electric meter installed. Now the hard part started. Summers were over 100 degrees and it was just too hot for a 65+ year old person to work outside finishing out the insides of an un-air-conditioned shell building. But slowly the building started to take shape. Foam sealing all cracks, adding rafter at 24" (so sheetrock could be hung), electrical distribution box, plugs, ceiling boxes for lights, insulation, sheetrock, tape and float, painting, flooring, and an A/C system.....things were looking up.

With the building in its final months of construction, "HA" it's coming up RETIREMENT TIME. So when 2019 was a thing of the past, and the big R had been reached it's time to, finish finishing out the shop and move the 3d printers out of the house, go back to gold prospecting and travel. NOT SO.

After my retirement I was diagnosed with the big "C", cancer; that took the best of a year to recover from. Then with Covid shutting most everything down that year, it was a bust for gold prospecting and radio club meetings, conventions and trips. What to do; the old house needed some repairs so I started a quick back porch renovation, a simple 2 maybe 3 month project. Boy was I wrong, I finished a year and a half later, but it looks good.

While spending most of the hot summer and cold winter days and nights inside for the last few years, I worked on refining my skills necessary to design and print 3d items. At one point I said to myself, "*hay I can make KNOBS*". Only one thing stood in the way, \$\$\$\$. As funds were going out quicker than coming in, and being somewhat mechanically inclined, I was fixing and selling 3d printers faster than I could buy up the no longer wanted machines, refurbish them and make a profit. The profits were funding the finishing of the shop, buying better 3d printers, and the supplies it took to print things.

to myself "*maybe the radio club might be interested in 3d printer services*". I put together a presentation of steps to create a Zenith knob, (#14 in the list). I showed it to the VRPS and it was (like me) a basic success, but a work in progress. I started getting request for knobs, escutcheons and other radio and phonograph parts that were no longer or not available. The assortment of knobs has grown up to 41 knobs as of this writing. I was contacted by one of the members to inquire if I could make the clips that were used on an RCA 8X541. Knowing exactly what he needed, since as I was also needing some for my radios, it was a no brainer.

The list is not complete at this time with up-to-date pictures, and some of the pictures are of knobs that have been cast with resin. Many of the items listed do not include a good picture of the original knob as that knob was made from a picture.

For those of you unfamiliar with the 3d printing process, it's not click and print. In most cases there are hours of design prototyping, test prints, re-design, test prints, re-design and so on. Things that people don't realize are you need items like: having a design software (i.e. a Cad program), a graphic program like Adobe Photoshop, a font library so the text or printing on an item will look like the original fonts, and if the item is to be reproduced from scratch, or if a model already exists. A good set of calipers and micrometers are a must.

If an item is reproduced with photogrammetry, (pictures taken of the original item and have a model computer generated), you need to have a high resolution digital camera, a photo booth with 360 deg. lighting, turntable with green felt, a computer with at least a 1 terabyte HD and 128 gigabyte memory, nothing less than a 24" high resolution monitor or two, and last but not least, the software. Both processes require that you have a 3d printer or printers that can produce an item that can be used for more than just mockups.

I currently have 4 printers for mockups or prototyping, 6 printers for quality finish work. The mockup machine basic cost \$400 each, 3 of the finish machines cost \$1000 each and the top machine cost just over \$3000. Each machine has a different setup and configuration, that way when running a print there is no need of having to stop and change things on a machine to do a different process, just print it on the other machine. Items that have been printed require some type of finish work like trimming off support material or finish sanding, and/or painting. For the best results like knobs with long stem shaft, the shaft can be printed separately and then super glued to the main body of the knob.

I am just about finished on a one of a kind knob for a Tempo-Tone radio that has taken over 50 hours of just design work, (CAD). I prototyped printed it 10 times with each print time being in the neighborhood of about 4 hours. When you add the design and print time together that's 90hours of time spent for 1 item.

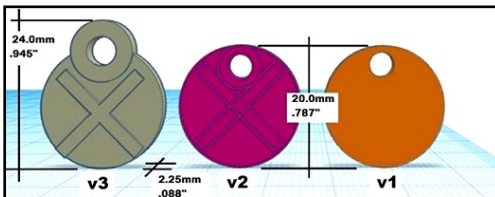
A LOOK AT LOTT-A-3d PRINTERS by Ron Carroll *continued*

The original knob had warped so bad it was in a horseshoe shape. If I was to charging by the hour the cost would be out of sight, but I charge by the job.



I will most likely never ever, sell another one of these, but the challenge of creating something that someone had needed to complete their radio; that made it worth it.

I have been creating items since about 2015. I have over 550 designs that have been used for everything from radios, phonograph player, 3d printers, refrigerators, fish aquariums to pots and pans, whatever is called for. Most items that fall into the vintage or antique radio category go on the KNOB list. Of the 41 items on that list all but about 6 are knobs. I do not intend to try to compete with the other members of our club that sell knobs, but to fill a void. That void of being able to provide a service to our members that need an item for a radio that cannot be found. Like a complete set of knobs of all the same design, or escutcheons. One item that I believe will be useful is what I call the Radio Back Saver Disc. I have a number of radios that the backs have the corners broken to where a screw or push pin with a washer will not hold them on, so I created The Disc, with 3 variations.

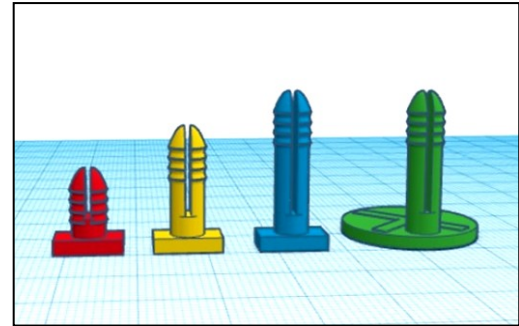


V1 is for many radios where the mounting hole is far enough away from the corner that the radios case will not cause a problem.

V2 is similar but has a "X" on it, so to apply a little extra pressure.

V3 is for when the mounting hole is in a tight corner and the disc is moved away from the edge of the case.

Another item that I re-created was the PUSH PINS, that some models use instead of screws.



There are basically 3 different types 3.5mm**, 4mm** and 4x5mm** (**note: metric is used for better accuracy), as not all the case holes are the same size. All of made from PLA plastic. The pins do provide some tension but are not a 100% replacement for the old style metal pins. I found that when installing and before I put the radio on the display shelf, a dab of hot glue on the pins will insure a lasting bond, and it will come out if you need to remove it.

I hope that I have provided some light about what 3d printing can do and may help someone finish up that radio that has had a piece missing they could not find.

The attached knob list shows what I currently have, or can print. Simple knobs run from \$5 each up, and design work is per item. If I design a knob for you it is to be understood that it will be added to the list so that others who need it, can have it printed.

PLEASE REFER TO THE FOLLOWING PAGE TO SEE THE 41 ITEMS MENTIONED ABOVE



Buy, Sell, Trade, & Services Offered

WANTED

Greetings,
Wanted to buy old jukeboxes. I am most interested in the ones made prior to WW II from 1920's to 1940's. Most of these have wood cabinets and although they are coin operated jukeboxes and select records, their deco design resemble upright floor model radios of that time period. Therefore I was hoping you might be able to help me locate some. They do not have to be in working condition. Some of the brand names that I am looking to buy include: AMI; Capeheart; Evans; Gables; Holcomb and Hoke; Mills; Rock Ola; and Wurlitzer.

I live in Pensacola, FL and have a daughter that I frequently visit living in San Antonio, TX. Please feel free to call me at the number listed below. Thank you for your interest and assistance.

I have included a few sample pictures of typical deco jukeboxes but would be happy to receive cell phone pictures of any vintage jukebox. I would appreciate any leads and if you know of someone having such a box that they might want to sell please pass along my contact information.

Happy collecting to all.

Warren Thompson

850-478-0413 (home phone for conversations)

850-748-5973 (cell phone for texting and sending photos)

warrenthompson@cox.net email



AMI Top Flight

WANTED

Wanted: Atwater Kent Model 36 radio with matching type "Y" power supply in working condition. Will purchase either early or late versions (or both if available).

Wanted: Atwater Kent Model K speaker in working condition

Contact: Jerry Sirkin 281-844-4124; gsirkin@aol.com.

SERVICES OFFERED

Vintage Sounds

Vintage Sounds is located in the Market Place Antique Center, 10910 Katy Freeway, Houston, they service and repair vintage phonographs, radios, telephones, in addition to selling phonograph records, radios, phonographs, telephones, vacuum tubes, books, light bulbs, parts, and so much more.

Open Friday, Saturday, and Sunday 10 AM - 6 PM. HVRA members 10% discount on radio items.

(713) 468-4911 www.vintagesoundshouston.com

Borden Radio Company website: <http://www.xtalman.com>

Antique Radio Schematic Service included in web-site. Crystal radio kits for sale. (281) 620 - 6692

Sargent Auction Service: www.sargentauction.com,

Jims@sargentauction.com Jim Sargent, WA5QBR, Auctioneer, TX license 16135 Location: 200 Thomas Road, Granbury TX 76049

Allen Speaker Service: Speaker re-coning and repair, 919 W.19th St. Houston, (713) 862-2747.

Tom Granger Restorations, radio and phono cabinets. (281) 338 - 8277 (www.tomgranger@mac.com)

Ace Electronics: 3210 Antoine Drive Houston, TX 77092 713-688-8114 (www.ace4parts.com)

Electronic Parts Outlet (EPO): 3753 B Fondren Rd Houston, TX 77063 713-784-0140 (www.epohouston.com)

Congratulations to Gilbert Hedge for being a Triple Winner at the November, 2021 VRPS Convention Contest for his Crosley Portable Radio Display (Best Restoration, Peoples' Choice, & Best of Show).

Congrats also to Bob Voss for his Western Radio Novice Transmitter & Receiver display winning The Founders' Award; and, to Phyllis Huckaby for the Snoopy Display winning The First Time Contestant Award.

SWAP MEET PHOTOS OF Oct, 30, 2021 AT EPO



Other Radio Related News

Texas Broadcast Museum: 416 E. Main Street in Kilgore, TX. Phone:903-984-8115.

There are hundreds of pieces of vintage paraphernalia related to radio and TV broadcasting.

Admission is \$6.00 (\$5.00 for seniors and military vets).

Edington Family Museum of Atwater-Kent Radios: 550 Roosevelt in Silsbee, TX. Please contact Jimmy Edington for appointment at 337-476-4328 (atwaterkentsrus@gmail.com). Jimmy, a long-time collector and original HVRA member, has re-purposed a beautifully restored hotel to display his outstanding collection of Atwater-Kent radios and related products. See his website, www.atwaterkentsrus.com.

More Radio Clubs

Delaware Valley Historic Radio Club www.dvhrc.com

Oklahoma Vintage Radio Collectors (OKVRC) President: Jim Collings, PO Box 50625, Midwest City, OK jcradio@cox.net; \$15 annual dues. Monthly meetings, annual show.

Antique Radio Club of Illinois (ARCI)
www.clubinfo@antique-radio.org

Collins Radio Association (CRA). David Knepper, PO Box 34, Sidman, PA 15955. No dues. www.collinsra.org

Michigan Antique Radio Club (MARC). Don Colbert, MARC, Pub: The Michigan Antique Radio Chronicle, quarterly. Dues: \$20. membership@michiganantiqueradio.org. Annual Extravaganza and other quarterly meets. www.michiganantiqueradio.org

New Mexico Radio Collectors Club (NMRCC). Monthly newsletter and members meeting (with flea market, auction and theme program). Dues: \$20. For more information contact John Anthes, jpanthes@comcast.net Club website: <http://newmexicoradiocollectorsclub.com>

Texas Antique Radio Club (TARC), Doug Wright, Canyon Lake, TX. wrightdouglas70@yahoo.com

Vintage Radio and Phonograph Society (VRPS), Dallas / Ft. Worth, TX. George Potter
vrps@sbcglobal.net, website: www.vrps.org

Texas Panhandle Vintage Radio Society (TPVRS). Contact: Elroy A. Heras, 4086 Business Park Dr., Amarillo, TX 79110

Canadian Vintage Radios Society (CVRS) Contact Gerry O'Hara 226 Dallas Road Victoria V8V1A5 Canada (gerrycohara@gmail.com) 604-671-6062; CVRS Website: canadianvintageradios.com

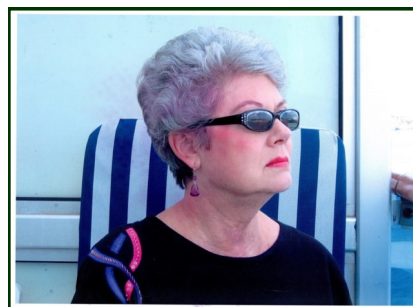
IN SYMPATHY

HVRA extends its sympathies to former member Preston Meeks, and to his family and friends, for the loss of his wife, Kay.

Preston joined HVRA during the 1st quarter 1990, and was an active member and contributor through 2013.

NANCY KAY MEEKS

AUGUST 27, 1940 - DECEMBER 14, 2021



Nancy Kay Steele Meeks died suddenly December 14th at her home in Houston, Texas. She was born in Muskogee, Oklahoma on August 27, 1940. She spent her growing up years in Oklahoma where she attended the Oklahoma College for Women, majoring in voice and later transferred to Oklahoma State University. Soon after she met the love of her life, Preston Meeks, she moved to Houston to begin a new chapter in her life. They were married on August 18, 1975. Nancy and Preston raised their 5 boys together. They loved adventure and traveled extensively for many years. They especially loved to take cruises. She was a devoted wife, mother and grandmother, and considered that her calling in life. However, she was also able to make time for many and varied interests. She was an active member of Memorial Drive United Methodist Church and the Good News Sunday School class. For many years, she was a member of UMW and the Chancel Choir. Her outreach included volunteering at Memorial City Hospital and the annual Mission Stitchers' Holiday Market fund raiser. She had a beautiful voice and used it to bring joy to many by entertaining and singing in nursing homes. Nancy loved people and never met a stranger. She was a great friend to many and kept up with them regularly. Nancy was preceded in death by her parents, John Ralph and Iva Lee Steele and her son, Christopher. She will be missed by those who survive her, including her husband, Preston, their sons Matthew Watson and wife, Jennifer, Gerry, Alan & Douglas Meeks and grandchildren Titus & Laurel Watson and many dear friends who loved her. In lieu of flowers, The Meeks family requests that donations be made to St. Jude's Children's Hospital.

obituary edited from published release

HVRA 2022 ANNUAL CONVENTION REGISTRATION and MEMBERSHIP FORM

(For Questions Please Contact Lewis Brittain at 713-517-8722 or britfam1@juno.com)

Last Name: _____ First Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: (____) _____ Ham Call: _____

E-mail: _____

All Bidders and Sellers Must Register and Be Active HVRA Members

Mar. 4 – 5, 2022 Houston Marriott North	NUMBER	AMOUNT
Advance Registration: ** \$15 (Postmarked by 2/15/2022)		\$
On-Site Registration: ** \$20		\$
**Annual Membership \$20: (3/1/2022 – 2/28/2023) NEW		\$
**Annual Membership \$20: (3/1/2022 – 2/28/2023) RENEWAL		\$
Awards Banquet Dinner: Sat. Mar. 5 @ 6:30pm
Chicken Dinner: \$30 per Adult		\$
Child Plate (12 and under): \$15.00		\$
Vegetarian Dinner – \$30.00 per Adult		\$
Vegetarian Dinner - \$15.00 per Child		\$
Swap Meet: 1st Table Free ; Additional Tables - \$10 each; Any member needing a table(s) must contact Lewis prior to Feb. 20		\$
Grand Totals	\$

- ****Only One Registration Required Per Family (One Bidder Number)**
- **HVRA Commissions: Individual Sellers at 15%**
- **Estates Sales Commissions Pending Pre-Convention Agreements**
- **Buyers and Sellers Settlements at Conclusion of Each Day's Auction Activities (Numerical Order)**

Fri. evening & Sat. lunch cash concessions? Yes ___ Number: ___ No: ___ Unsure: ___

ADVANCE REGISTRATION: CHECKS, PAYABLE TO HOUSTON VINTAGE RADIO ASSOCIATION (HVRA), or CASH MUST BE POSTMARKED BY FEBRUARY 15, 2022 to:

Lewis Brittain 3722 Xenophon Dr. Houston, TX 77082

ON-SITE: AFTER FEB. 15, 2022, BRING REGISTRATION FORM AND CHECK/CASH TO CONVENTION

HVRA USE ONLY:

DATE RECEIVED: _____ **CHECK NUMBER:** _____ **CASH:** _____

REGISTRATION (BIDDER) NUMBER: _____