



ARCI NEWS

www.antique-radios.org

Affiliated AWA
Antique Wireless Association



Volume 35, Issue 1
February 2016

ANNOUNCING NEW LOCATION RADIOFEST 2016



Medinah Shriners in Addison, Illinois



Hilton Garden Inn, Addison



Ham Radio Room at Shriners

Happy Valentine's Day!!!

DON'T FORGET TO RENEW YOUR ARCI MEMBERSHIP!

UPCOMING INDOOR MEET FEBRUARY 7, 2016

AMERICAN LEGION HALL

570 South Gary Avenue, Carol Stream, IL

FEBRUARY 7, 2016 ~ 7AM – 11AM

Peoples' Choice Contest:

Awards For 1st, 2nd, 3rd Place

BUSINESS MEETING 9:30 am

Boy Scout Pancake Breakfast / Free Coffee, Juice & Cookies

50/50 Cash Drawing Raffle



2016 ARCI MEET SCHEDULE

February 7, 2016	7AM-9:30AM Indoor Swap Meet People's Choice Contest, Officers' Meeting 9AM	American Legion Hall Carol Stream, IL (See Map)
April 24, 2016	7AM-11AM Outdoor Swap Meet Inside Business Meeting 9:30AM	American Legion Hall Carol Stream, IL (See Map)
June 19, 2016	Outdoor - Gates Open 7AM Combined Meet With 6-Meter Club of Chicago	DuPage County Fairgrounds Wheaton, IL (See Advance Ticket Form & Map)
July 29-31, 2016	<i>RADIOFEST</i>	Medinah Shriners Addison, IL
October 2, 2016	7AM-11AM Outdoor Swap Meet Business Mtg./Officer Election 10AM	American Legion Hall Carol Stream, IL (See Map)
December 11, 2016	7AM-11AM Indoor Swap Meet Business Meeting 10AM	American Legion Hall Carol Stream, IL (See Map)



ARCI

MEMBERSHIP RENEWALS



PLEASE CIRCLE YOUR MEMBERSHIP:

<i>Membership Option</i>	<i>Dues</i>	<i>Benefits</i>
Annual Membership	\$ 25	Full benefits: <i>ARCI News</i> subscription, Fee Discounts At Events, Seller Privileges at ARCI Events.
Spousal Annual Membership	\$ 10	Discounts at Events.
Student Annual Membership	\$ 5	Must Be 18 or Under, Full Benefits.
Lifetime Membership	\$340	Full Membership Benefits For Life (non-transferable).

MAKE YOUR CHECK PAYABLE TO ARCI AND SEND TO:

Antique Radio Club of Illinois
P.O. Box 1139
LaGrange Park, Illinois 60526

EMAIL DELIVERY OF ARCI NEWS? YES OR NO (CIRCLE ONE)

PRINT DELIVERY OF ARCI NEWS? YES OR NO (CIRCLE ONE)

Name: _____

Spouse: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Home Phone: _____ Application Date: _____

Email: _____

Emergency Contact Name: _____ Phone: _____

PRESIDENT'S MESSAGE

Happy New Year to all our ARCI members, their families and friends! We have just come off of a truly great year for ARCI with a string of excellent regional meets and a very memorable *Radiofest 2015*. Our club is in good shape, and our outlook is bright! But before we finally close the book on 2015, I would first like to give you a quick review of our December meet.

Our second annual Janet LaVelle Holiday Party truly lived up to expectations, and then some. The morning of December 6 dawned with mild temperatures and clear skies, beckoning ARCI members to come out and join the fun. And come out they did! The mood was festive, the place packed with 25 seller tables loaded with radios, audio gear, test equipment and parts. The attendees were in a giving mood, as evidenced by the array of items piling up for the ever-popular donation auction, along with the nice array of baked goods brought in to share with fellow ARCI members.

The American Legion Hall also brought back, by popular demand, their Boy Scout breakfast crew, to once again serve a hot breakfast at our regional meets. It was sorely missed at our October meet when the previous crew disbanded. We really appreciate the efforts of the American Legion Hall folks in bringing back this popular feature of our regional meets.

The large quantity of items in the donation auction kept our auctioneer Tom Kleinschmidt going strong until late morning, and adding \$373 to the club's bottom line. There were plenty of great items to be had, many of which were also incredible values. If you haven't checked out our donation auctions lately, I would suggest you take the time to do so. The number and quality of donated items is impressive and the deals can't be beat. I picked up a nice set of stereo speakers for myself, to use on my repair bench.

Our December business meeting started off with our official vote for the slate of ARCI officers. Normally we do this at the October meet, but due to so many scheduling conflicts in October, a number of club officers; myself included, were unable to attend that meet. So we postponed the vote until December. I am happy to report that all the club officers have volunteered to serve for another year. This is great news for the club, and I wish to congratulate and thank all the ARCI officers for their continued generous donations of time and energy.

After the votes were cast, the meeting got down to the "elephant in the room": *Radiofest 2016*. Much progress has been made in preparing for our club's premier event, and I hope you take the time to read all about it in the *Radiofest 2016* Planning Update.

Finally, don't forget about our upcoming indoor meet on Sunday, February 7. It is always a great opportunity to meet up and chat with your fellow ARCI members, grab a cup of coffee or a hot breakfast, pick up a radio or two, and shake off those winter doldrums. And as always, there's the donation auction for great bargains, and our business meeting immediately following the auction.

Remember, ARCI is your club! So please let me know if you have any ideas or suggestions for activities or events that you would like us to consider for 2016. You can email ARCI's website address clubinfo@antique-radios.org or you can email me directly at arcipresident@comcast.net.

See You At The Next Meet,
John Stone
ARCI PRESIDENT

ARCI UPDATE

The President's Column — All The News That's Fit To Print

UPCOMING BUSINESS MEETING FEBRUARY 7, 2016

We strongly urge all interested members, Officers and Board members to attend the upcoming business meeting. WE NEED YOU!!! New blood is needed to preserve the vitality and innovation of one of the best radio collecting clubs in the country. Planning for *Radiofest 2016* is already underway. ARCI is your club!! Please plan to participate and lend a hand! See you at the meeting!!

MEMBERSHIP DUES

Don't forget to send in your membership dues for 2016. Dues remain unchanged from 2015 and will continue in 2016 at \$25 per year and \$340 Lifetime. Please see the enclosed form. We apologize for any confusion stemming from the December issue of *ARCI News* which included the old 2014 membership form and did not reflect the current dues levels.

HEALTH AND WELFARE

We are very sad to report the passing of Greg Hunolt. Greg, age 72, passed away unexpectedly December 2, 2015 at the Aurora Medical Center in Grafton, Wisconsin. Greg, the former President of the Wisconsin Antique Radio Club, Inc. (WARCI) was a good friend to Illinois ARCI members and was responsible for redesigning the Radiofest Auction. We will all miss him dearly. The following was printed in his obituary—

Greg was born February 18, 1943 in Chicago, the first of three sons of Glenn and Elaine (Rogers) Hunolt. He grew up in the Chicago and St. Louis suburbs, developing an early interest in science and space travel. He earned a degree in meteorology at St. Louis University, and took graduate courses there as well.



Greg Hunolt

During his career, he worked for the Navy, the National Oceanic and Atmospheric Administration (NOAA) and finally the National Aeronautics and Space Administration (NASA) in the Washington, D.C. area. Although usually not an enthusiastic traveler, Greg enjoyed overseas trips during his NASA career to work with his space agency counterparts in cities including London, Rome, Munich and Tokyo.

It was while working in Washington, D.C. that he met his wife, Jean Ann Blanke, who he married in 1983. After he retired, he and Jean Ann moved back to her beloved family home in Plymouth.

Greg was a man of many interests who believed he never could be bored in retirement. He read widely in history, philosophy, religion and, of course, science fiction.

He was an avid collector and researcher of antique radios, particularly tube radios from the 1920s. He was past president of the Wisconsin Antique Radio Club, and was active in similar radio clubs in Illinois, Minnesota, Michigan, and Maryland. He was the editor of the Wisconsin Antique Radio Club newsletter and contributed articles, both scholarly and light-hearted, to radio journals across the country. He is the author of the Battery Set Compendium, which is a valued resource for radio collectors and researchers of antique radios.



Greg Hunolt is the former President of WARCI.

Greg loved music of many types, ranging from classical to bluegrass to jazz. He was a great fan of cats, even though he was profoundly allergic to them.

Over the past several years, Greg was bothered increasingly by rheumatoid arthritis, but was positive and uncomplaining, determined to live life to the fullest. He was active with a full schedule until the day of his death.

Greg is survived by his wife, Jean Ann, of Plymouth, and his two brothers, Philip and Jon, who live out of state. He is further survived by sisters and brothers-in-law Peggy and Jay Ellis of Plymouth, and Julie and Don Gonzo of Port Washington. He also is survived by his great friend and antique radio colleague Dale (Chris) Boyce of Milwaukee, and nieces, nephews, and many friends.

In lieu of flowers, friends may want to make a contribution in Greg's name to one of his favorite organizations: Sheboygan Symphony, 830 N. 8th St., Sheboygan, WI 53081; the Pavek Museum of Broadcasting, 3517 Raleigh Ave., St. Louis Park, Minnesota 55416; National Capital Radio & Television Museum, PO Box 1809, Bowie, Maryland 20717; the Kohler Arts Center, 608 New York Ave., Sheboygan, 53081; or the Sheboygan County Interfaith Organization, PO Box 73, Sheboygan 53082.

The Suchon Funeral Home and Cremation Services of Plymouth, Wisconsin is serving the family. For online condolences, please visit www.suchonfh.com



I WANT YOU TO VOLUNTEER WITH ARCI !!

We Need Your Help To Run Your Club!!

- ARCI News – Authors, Contributors
 - Radiofest – Volunteers
 - Local Meets – Volunteers
 - Radiofest Staff – Auction, Registration
 - Radiofest Hospitality Tent – Donors, Staff
- Earn your stripes today!**

*Please Contact Your Board Members & Club Officers or Email
John Stone, ARCI President
arcipresident@comcast.net*

RADIOFEST 2016 PLANNING UPDATE

By John Stone, ARCI President

In the October 2015 issue of the *ARCI NEWS* I gave you a quick status update on our plans for *Radiofest 2016*. I reported that our *Radiofest 2015* location, the Quality Inn in Burr Ridge, was no longer a viable option for 2016. We thus began the daunting process of seeking out a totally new venue for 2016. It is no secret that finding a suitable location for *Radiofest* is never an easy task, and if anything, has only become more difficult with the passage of time. I think it is also fair to say that our last location might have “left a little something to be desired”, if you know what I mean. I will leave it to you to fill in the blanks on that one! So, faced with a totally clean slate, I put together a “wish list” to use as my guide when searching for a new *Radiofest* venue. Here are some of my priorities:

- A large, well maintained, secure, parking area with at least 150 spaces, offering easy access for both sellers and buyers.
- A large parking area for non-selling *Radiofest* attendees, located as close as possible to the seller’s parking lot.
- High quality, easily accessible indoor facilities for our banquet, auction, speaker, and display functions.
- A block of clean, well-maintained sleeping rooms, available at reasonable prices.
- A stable, well managed facility with the potential of being a repeat location for future *Radiofest* events.
- All of the above at prices that ARCI and its members can afford.

The above list was a pretty tall order, especially given our less than ideal experiences with hotels in the area. But then, I learned about a very promising venue (a big shout-out goes to club member Ron Steinberg for the referral) that looked like it could meet most, if not all the requirements on the above list. And, lo and behold, after a lot of back and forth discussion with the management of this facility over a period of several months, we were finally able to come to an agreement, and secure our new *Radiofest 2016* location. So, without further delay, I am pleased to announce:

Radiofest 2016 At New Location
Friday July 29- Sunday July 31
Medinah Shriners
550 N. Shriners Drive
Addison, IL 60101

I am really enthusiastic about *Radiofest 2016*! Our new, modern, upscale facility and hotel are going to be a huge improvement over last year’s location, making this an even more interesting and enjoyable event. Just like last year, we’ll start off the festivities with our Friday night auction, followed on Saturday morning by the swap meet. We have our speakers’ programs, contest, and display throughout the day on Saturday, followed by the Carl & Carolyn Knipfel banquet on Saturday night. And, of course, we’ll also have our appraisal tent and the ham station. On Sunday morning we reopen the swap meet, followed by our seller’s raffle. We close out *Radiofest 2016* with our traditional donation auction. So as you can see, we’re planning for another fun packed event, full of great stuff to buy and fun things to do. You don’t want to miss this one!

Our *Radiofest 2016* theme is: ***The Radio Corporation of America***. It is simply impossible to discuss any part of radio history without the mention of RCA. The sheer volume of ideas, inventions, products, and published works from this legendary company will give us endless possibilities for our speaker programs, display and contest. It is not too early to start thinking about what RCA items you'd like to bring to a *Radiofest* to put in the display or enter in the contest. Or maybe you even have an RCA related topic you would like to present to fellow club members. If so, please do not hesitate to contact the club with your ideas.



The Medinah Shriners facility is located at the junction of I-355 and Army Trail Road in Addison, IL. This is a very convenient location that can be easily accessed from all directions within the entire Chicago area. You will find a map elsewhere in this issue to give you a clear picture of the location.

The outdoor parking areas are well suited for *Radiofest*. The swap meet will be located in its own large parking lot at the west end of the facility. There will be plenty of seller spaces available with lots of room between rows for maneuvering a small truck or a vehicle with a trailer. The seller's lot is also totally out of the main traffic flow, which should be good news for those walking around the swap meet. And speaking of good news, the pavement has well marked parking spaces and is in excellent physical condition! No more potholes or ruts! Directly adjacent to the seller's lot is the main parking lot, with over 170 spaces available for buyers and other visitors. It is an easy walk from one lot to the other, with plenty of spaces available. The indoor banquet facility is equally as impressive as the outside: modern, beautifully maintained, and very spacious. We will only use about a third of the ballroom (and still have plenty of space) for the auction and banquets, along with an adjacent space for our equipment display and contest areas. Finally, we will be using one of the large "classroom" spaces for our speaker presentations, located right down the hall from the ballroom.

Our official hotel for *Radiofest 2016* is the Hilton Garden Inn: located directly adjacent to the Medinah Shriners, complex, and a very short walk from the banquet facilities and parking lots. Medinah Shriners and Hilton Garden Inn are completely independent entities, but they coordinate closely on events. Our contact at Shriners helped us negotiate a really great rate with the hotel at a rate of \$95 per night. This is a really nice hotel at a really nice price. You won't be disappointed!

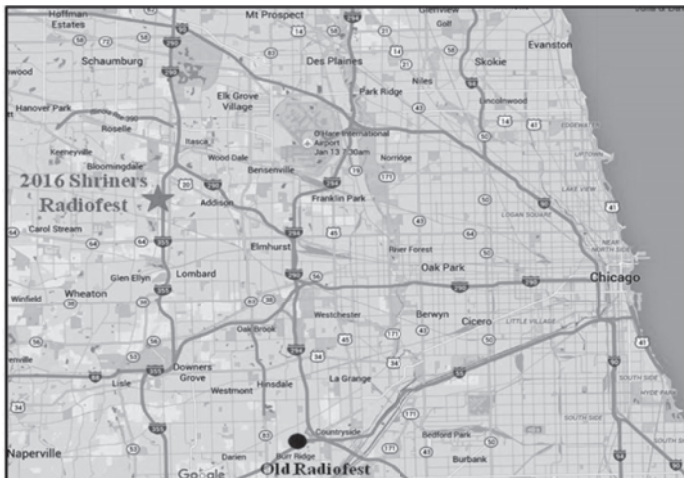
Reservations for the hotel are now open! You can go to the online reservation system, which has been set up exclusively for *Radiofest* reservations, at this web site: http://hiltongardeninn.hilton.com/en/gi/groups/personalized/C/CHIAHGI-RADIO-20160728/index.jhtml?WT.mc_id=POG. Or, you can call the hotel at: 630-691-0500. Mention *Radiofest* to the friendly reservation agent to get the special discount rate.

RADIOFEST
Medinah Shriners
550 Shriners Drive
Addison, IL 60101
(630)-458-0200

HOTEL
Hilton Garden Inn Addison
551 N Swift Road
Addison, IL 60101
hiltongardeninn3.hilton.com
(630) 691-0500

So that is your first look at *Radiofest 2016*. There is plenty more info to come in future editions of the ARCI NEWS and in our upcoming *Radiofest* mailings. Even though it is only 2 degrees outside as I write this, you can see that we are already well into the planning phase of this exciting event. With our wonderful new location, our dedicated team of ARCI volunteers, and our great theme, this will definitely be the one meet this summer that you do not want to miss! So, mark your calendars and start making your plans to attend! Let's make this one for the record books! And, if you have any questions, comments, or suggestions, please do not hesitate to contact me at arcipresident@comcast.net.

NEW LOCATION FOR RADIOFEST 2016



A RADIO TIMELINE

By Keith Schreiter

February Radio Time Line Thru The Years

Take a stroll back in time and think back to all those wintery February months. Do you remember any of these major communications events?

- February 14, 1854 - Texas linked by telegraph with the rest of the United States, with the completion of a connection between New Orleans and Marshall.
- February 14, 1876 - Alexander Graham Bell applies for a patent for the Telephone, as does Elisha Gray
- February 19, 1878 – Thomas Edison patents the phonograph.
- February 1, 1893 – Thomas A. Edison finishes construction of the first motion picture studio, the Black Maria in West Orange, New Jersey.
- February 23, 1927 – The Federal Radio Commission (later renamed the Federal Communications Commission) begins to regulate the use of radio frequencies in the United States.
- February 25, 1928 – Charles Jenkins Laboratories of Washington, DC becomes the first holder of a television license from the Federal Radio Commission.
- February 1, 1942 – Voice of America, the official external radio and television service of the United States federal government, begins broadcasting with programs aimed at areas controlled by the Axis powers. (See Article in this News Letter)
- February 24, 1942 – The Voice of America begins broadcasting Stateside.

HISTORY ZONE

An Occasional Column on Topics of Historical Interest

By Keith Schreiter

TURN THAT RADIO DIAL BACK IN TIME VOICE OF AMERICA--THE BEGINNING'S

The Voice of America went on the air on February 1, 1942, fifty-six days after the Japanese attack on Pearl Harbor and the entry of the United States into WWII. The first broadcast was beamed to Europe via BBC transmitters. From that moment, America had found its “voice” abroad, after entering the 1940s with no official presence on the international airwaves.



Voice of America microphone flag circa 1950. Western Electric introduced the 639A unidirectional ribbon velocity microphone in 1939, and it was sold by Altec in 1940s and 1950s. (Courtesy Audio Engineering Society)

In mid-1941, prior to the U.S. entry into WWII, President Roosevelt established the U.S. Foreign Information Service (FIS) and named his speechwriter (and former playwright) Robert Sherwood as its first director. Driven by his belief in the power of ideas and the need to communicate America's views abroad, Sherwood rented space for his headquarters in New York City, recruited a staff of journalists, and began producing material for broadcast to Europe by privately-owned American shortwave stations.

With Japan's attack on Pearl Harbor and Germany's declaration of war against the United States, Sherwood moved into high gear. He asked John Houseman, the theatrical producer, author, and director, to take charge of FIS radio operations in New York City. Houseman was well known to the general public for his collaboration with Orson Welles on their radio adaptation of the War of the Worlds, a radio drama that created a nationwide panic when it first aired in the 1930s. [Note: See the article on War of the Worlds in the October 2011 *ARCI NEWS*.]

The first VOA broadcasts were produced in rented studios in New York. Houseman later recalled those first broadcasts: "We went on the air...with no name, out of a cramped studio, on borrowed transmitters, with absolutely no direction from anyone as to what we should broadcast other than the truth."



Voice of America Logo 2012 to Present. (Courtesy VOA)

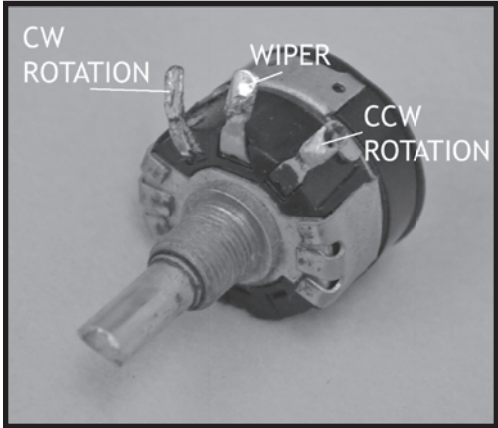
Let the Truth Be Told. From the beginning, VOA promised to tell its listeners the truth, regardless of whether the news was good or bad. “In reality, we had little choice. Inevitably the news that the Voice of America would carry to the world in the first half of 1942 was almost all bad, recalled John Houseman. “Only thus could we establish a reputation for honesty which we hoped would pay off on that distant but inevitable day when we would start reporting our own invasions and victories.”

The first German programs accompanied broadcasts in French, Italian, and English. By June 1942, VOA was growing rapidly and had a new organizational home — the Office of War Information (OWI). Twenty-three transmitters had been constructed and 27 language services were on the air in January 1943 when the Allied summit took place in Casablanca. By 1944, VOA broadcast hundreds of hours of programming in over forty languages.

RADIO ZONE
An Occasional Column on Topics of Interest
By Dan Schoo

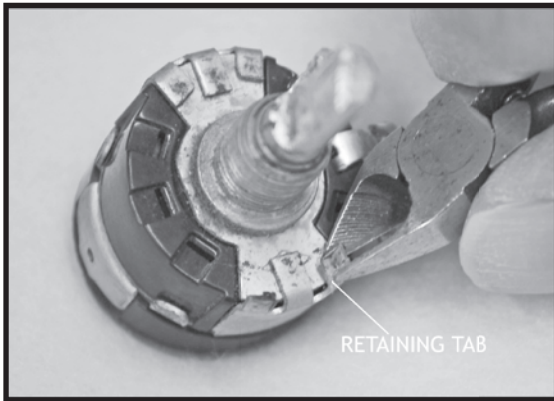
CLEANING NOISY POTENTIOMETERS

What exactly is a “potentiometer”? A potentiometer is a resistive voltage divider that has the capability of being adjusted to any desired ratio from 100% to zero. Inside there is a resistance element that has a sliding electrical connection or tap that slides from one end of the resistance element to the other. In this way the ratio of the resistance from the tap to either end of the element can be changed thereby changing the voltage division ratio. Potentiometers are manufactured in many different resistances, “tapers” and the number of turns the shaft will make depending on the application they are intended for. For precision work potentiometers allowing five, ten, fifteen or more turns are used to spread out the change in resistance over a longer range of shaft travel and allow more precise setting of the value. Single turn types are the most common having a rotational limit of 270 degrees.

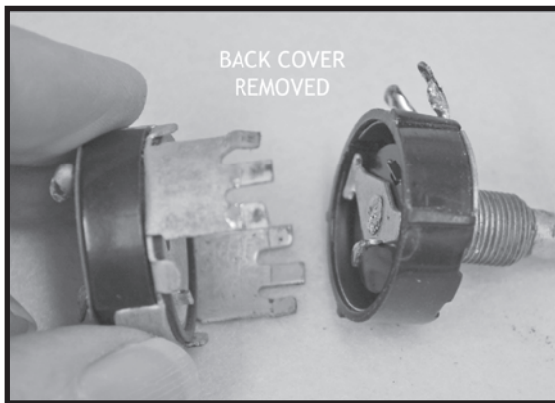


Typical Potentiometer – All American Five Volume Control.

The construction of single turn potentiometers tends to be very similar. Most of the newer ones use a flat ring shaped element with the rotor parallel to the element. Some older ones use a cylindrical shaped element with the wiper sliding inside as shown in the photos. There are always the oddballs you will run into especially in the very old sets. One pot I took apart did not use a sliding wiper at all. It had a flexible metal strip mounted inside of a cylindrical sleeve element. The rotor had a point on it that pressed on the strip deflecting it and pressing it against the element. As the rotor was turned it pressed the strip onto the element at one location similar to how a wiper would contact the element. There were no sliding electrical contacts in the pot. I suppose there could be advantages to this since there was no wear on the resistance element but there was also no self-cleaning of the element due to friction.



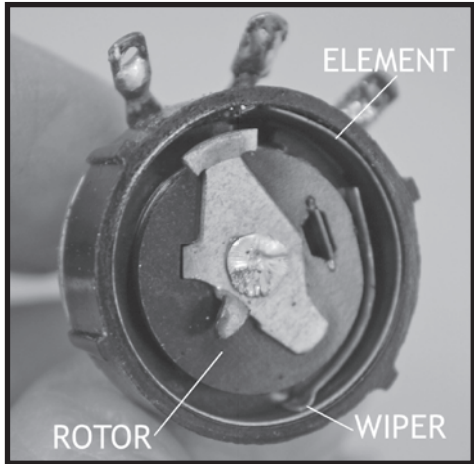
Bending the retaining tabs for back cover removal.



Back cover removal.

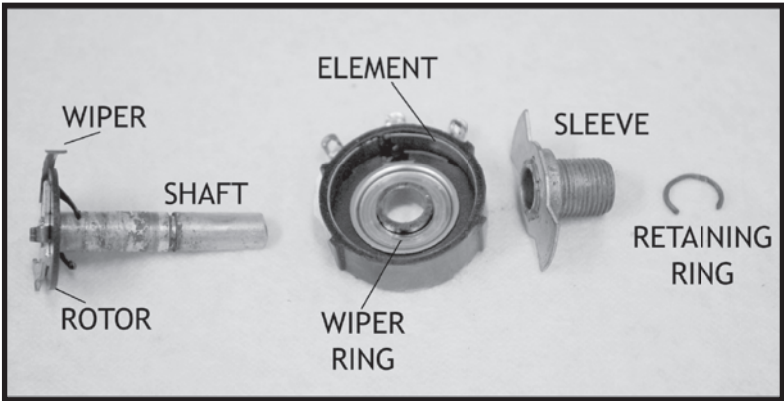
The taper of the potentiometer refers to the rate of change of resistance as the shaft is turned. A linear taper changes resistance in equal increments as the shaft is turned. For example, setting the shaft at the mechanical half way point of the rotation adjusts the resistance at the tap to exactly half of the total resistance of the element. This taper is used for setting reference voltages such as set points for temperature control, adjustable power supplies and most other applications where a linear change is desired.

Since the human ear is a logarithmic sensor where the perceived volume of a sound is the log of the sound pressure level, the change in resistance of a linear potentiometer does not match the change in perceived volume. A linear potentiometer used as a volume control will advance the perceived volume very slowly as the shaft is turned and then increase rapidly as you reach the end of rotation. To match the human ear the change in resistance, or taper, must also follow a logarithmic curve changing very rapidly at first and then more slowly as you turn the shaft.



An inside view showing the rotor and sliding wiper.

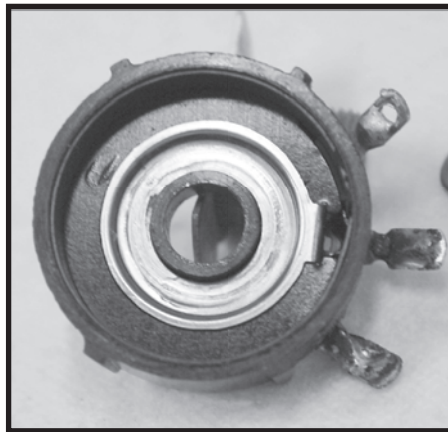
This is one way you can determine if a pot from your junk box is linear or log taper. Set the rotation of the pot to the half-way point between the limits and measure the resistance from the center wiper connection to each of the two ends. If it is a linear pot the resistances should be about equal and half the total resistance. If the resistance from the wiper to one end of the element is very low and to the other end is much higher the pot is a log, AKA audio taper. For this article we will describe the typical single gang volume control used in tube type radios. Dual ganged types used in stereo systems are similar but can be more difficult or impossible to disassemble the front section.



28 - Templetone military radio with original dial cover.

It is very common for potentiometers used as volume controls, tone controls and other audio functions to get dirty and noisy with age and exposure to dust and airborne contaminants. The symptoms are all too common, scratchy noises when you rotate the shaft, intermittent cutout of the audio and noisy audio. Many potentiometers are lubricated at the factory with grease on the shaft and internally on the sliding contacts. After many years of service or storage the grease becomes gummy and stiff making the shaft difficult, or sometimes impossible, to turn and the electrical conductivity of the sliding contacts poor. The only solution is to remove the grease and get those contacts clean again.

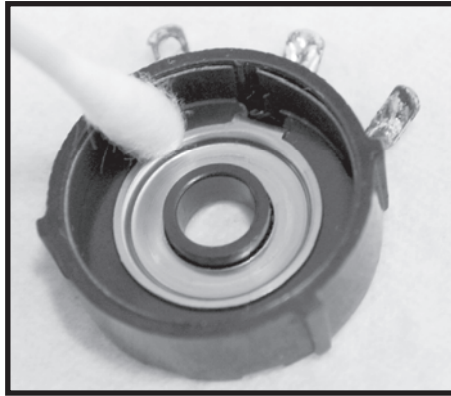
Years ago in the heyday of tube electronics several commercially available cleaners such as Quietrol and No Noise were sold to clean and lubricate dirty switch contacts and noisy pots. Many of them were based on carbon tetrachloride, AKA Tetrachloromethane, a very good solvent for grease. It was non-flammable and relatively non-toxic but its use was discontinued for non- industrial use due to several health and environmental issues. Freon TF is an excellent grease solvent used for electrical contact and magnetic recording head cleaning but it was removed from the market due to environmental concerns. There are several products on the market today for contact cleaning based on flammable alcohols or hydrocarbons and the more expensive non-flammables such as Hydrochlorofluorocarbon (HCFC) solvents.



Potentiometer front section showing the resistance element and wiper ring.

To properly clean a potentiometer you have to effectively remove all the grease. If the problem is not too bad you can often flood the pot with the solvent and rotate the shaft repeatedly from stop to stop to scrub the contacts and resistance element. This will sometimes work for a while and then the pot gets noisy again. Another irrigation or disassembly and cleaning may be necessary for those.

Irrigating the inside of the pot is possible with some types that have openings in the case near the solder lug connections. Other pots are fully enclosed and getting solvents inside in sufficient quantities is not possible. For those and for pots that have a stiff or frozen shaft you have to take the pot apart for a more thorough cleaning.

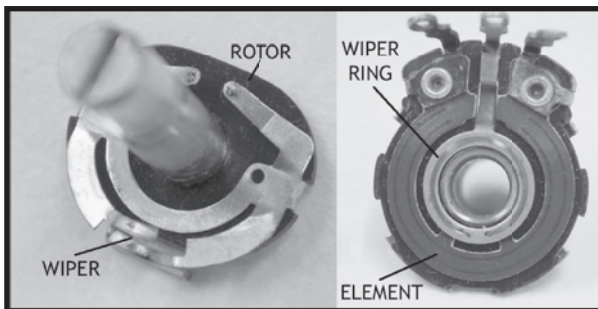


Swabbing the resistance element with a cotton swab.

To open a pot for cleaning you must first remove it from the chassis. This can be very difficult depending on how deeply it is buried. This is why the irrigation method of cleaning is so popular. If there is a switch attached to the back, rotate the pot to turn on the switch before disassembly. This will become important when you reassemble the back cover. There are several retaining tabs on the front that hold the back cover to the sleeve. To remove the cover, slip the jaw of a small wire cutter under each tab and gently bend them upward. After all the tabs are straightened the back should slip off exposing the inner workings. The shaft and rotor are removable on most pots but not all.

To remove the shaft and rotor you first remove the back cover as described above. Note that there is a retaining ring on the shaft where it enters the threaded portion of the sleeve. Clamp the shaft in a vice and using two small screwdrivers remove the ring. The ring is going to rotate around the shaft so hold it with one screwdriver while using the second driver to push it open and off of the shaft at the split in the ring.

Once removed, the shaft and rotor will slide out of the sleeve. Dried out grease may make this difficult. Applying a little solvent and gently rotating and/or tapping on the end of the shaft may help. You can use one of the commercially available contact cleaning chemicals or a mild solvent such as ethyl or isopropyl alcohol. Never use gasoline, turpentine, methyl ethyl ketone or other industrial or household cleaning products that could damage the resistance element.



A Flat Disk Potentiometer.

Clean the resistance element with a cotton swab dipped in solvent. Often there is thick gummy grease on the element and on the stationary wiper contact ring inside the pot. Carefully swab all of the parts with solvent including the shaft and inside the sleeve. If the wiper contacts are badly tarnished I use a little Brasso on a cotton swab to burnish them. After burnishing, clean them with solvent to remove any residual polish. I don't usually put any lubricant on the resistance element or the wiper but I do put a thin film of light oil on the shaft before re-assembly. If your solvent is a commercially available contact cleaner/lubricant you will already have lubricated the contacts.

If the design is such that the rotor is not removable you can clean the contacts with a paper towel moistened with an appropriate solvent. Flood the pot with solvent and rotate the shaft to clean the wiper slider and dissolve the grease out of the inner parts. This is not as good as taking the rotor out but if the pot cannot be disassembled this is the best you can do. Slip a small piece of dry paper towel gently under the wiper contacts. Once in place moisten it with a small amount of solvent and rotate the shaft slowly to slide the towel over the length of the resistance element. Do this a few times adding additional solvent then remove the towel. Never use an abrasive like sandpaper to clean the internal parts of a potentiometer. Sometimes a little burnishing of the shaft with a light duty Scotch-Brite™ abrasive pad is appropriate to clean up corrosion and hardened grease.

Re-assemble the pot in reverse order. Rotate the shaft to place the main wiper at mid rotation which is farthest away from the solder lugs. Put the retaining ring back into the slot in the shaft and squeeze it tight with a long nose pliers. To bend the tabs back into place you will need a narrow pliers with a very wide opening of the jaws. I use a six inch long nose Vise Grip® pliers which have a very wide opening and the jaws are relatively parallel to each other even when widely separated. Gently squeeze the tabs with the pliers and push them forward towards the shaft to get them started. Carefully flatten the tabs back down and re-install the pot.

You may want to practice disassembly on several junk box pots to get some experience before you try it on a treasured collectable.



RADIO RESOURCES

By David Bart

RADIO HISTORY WEBSITE RESOURCE

If you are looking for access to vast radio related resources on the internet, several websites are available for the historian. One site, American Radio History at <http://americanradiohistory.com/index.htm>, offers volumes of scanned documents, past editions of periodicals, station albums, ratings data, technical and engineering publications, books and many other documents. Links to sister websites and recommended websites are also included. Drop down menus and interactive search capabilities provide easy access to the contents. Regular users can easily identify website updates in the drop down menus for Latest Additions. The website is vast, offering access to over 5 million pages of items spanning early wireless, AM, FM and TV broadcasting. You can literally spend endless hours reading. American Radio History is maintained by David Gleason who has over 56 years experience in the radio industry spanning the US, Mexico, Puerto Rico, and Latin American broadcasting. He is now a retired broadcast programming, management and research specialist for Latin America and U.S. Hispanic markets.

The screenshot shows the homepage of American Radio History. At the top is a navigation bar with links: Home Page, Magazines Broadcasting, Technical & Engineering, Radio Ratings, Logs & Station Lists, Station Albums, Early Radio, and Site Features & email. Below this is a featured section with a quote from Lee de Forest: "I discovered an Invisible Empire of the Air, intangible, yet solid as granite." It mentions "Five million pages of AM FM & TV Broadcasting history online" and the website name "AmericanRadioHistory.com". There are social media icons for Facebook (2.6k likes) and a Like button. A search bar and navigation links like "What's new", "Site F.A.Q.", "Pages Alphabetically", and "Search whole site" are also present.

Below the featured section is another navigation bar: GO TO TOP, Broadcasting Industry, Engineering & Electronics, Early Radio, DX and Listening, Everything Else, and Global Search "Blue" section.

The main content area is titled "BROADCASTING - Business Periodicals (Modern Era)" and includes a search bar for "Search Magazines". It features a grid of magazine thumbnails with descriptions:

- BROADCASTING**:
 - WVLS** Broadcasting Magazine: 3200+ issues, Searchable
 - RADIO DAILY** Radio Daily newsletter: 40's and early 50's, Searchable
 - CHANNELS OF COMMUNICATION**: Insightful magazine about television content and society, Searchable
- TELEVISION**:
 - TELEVISION** Magazine: 1944-1966, Searchable
 - U. S. Radio** Magazine: 1957-1961 Radio news journal, Searchable
 - PANORAMA** Panorama TV: 1981-1982 consumer focused in depth magazine about the TV industry, Searchable
- TELEVISION**:
 - TELEVISION** Radio Age: ad biz and media magazine, Searchable
 - TELEVISION** Quarterly: National Academy of Television Arts and Sciences, Searchable
 - BROADCAST PROGRAMMING & PRODUCTION**: from the 70's, Searchable
- TELEVISION**:
 - Sponsor**: 1946-1964 Radio-TV advertising publication, Searchable
 - TELEVISION INTERNATIONAL**: 1955 and on. Foreign TV programming
 - LOW-POWER COMMUNITY TV**: Low Power TV publications from the 60's and early 90's

Below this is a section titled "BROADCASTING: Music Related" with a search bar for "Search Music Related". It includes:

- Billboard**: 1942 to 2010, Searchable
- The Gavin Report**: Radio and music in sheet / magazine
- Radio & Music Tip Sheets**: Airplay reports, industry news.
- R & R**: Radio and Records Music and industry news.

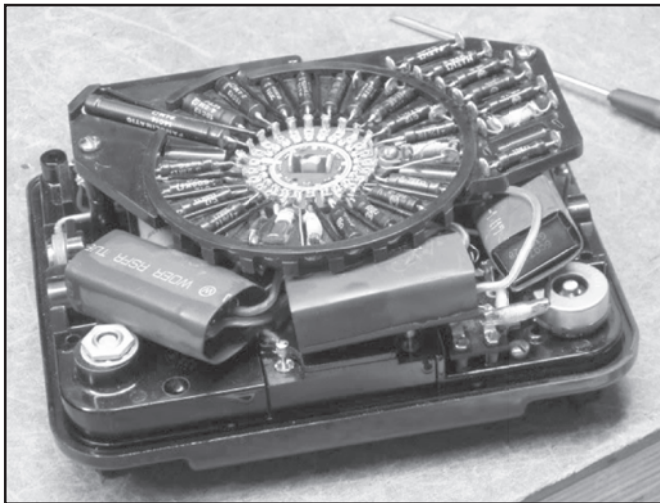
NEWS FROM THE HAMSHACK

By Jim Novak, WA9FIH

SUB FOR 22.5 V BATTERIES IN YOUR OLD SIMPSON VOM

Although I do own a nice Fluke digital VOM as well as a couple “cheapie” digital meters, I still use my good old Simpson 260 family analog VOMs most of the time, especially when I am working on a project that requires adjusting something while watching the meter out of the corner of my eye – is it going “up” or “down”?

The Simpson 262 and 269, “big brothers” to the 260, use two different batteries for the resistance scales – a standard flashlight cell for the lower Ohms ranges, and a rectangular 22.5 Volt battery – Eveready 412 or equivalent – for the higher ranges. Batteries Plus does not even sell the 22.5 Volt battery, but it is available from multiple sources on the internet – at prices ranging from 15.95 to 27.95, plus shipping in most cases. OUCH! I really needed to replace the old battery in my 262, but that would mean having less funds available to spend at the next ARCI meet.



Simpson 262 Battery Placements.

Idea – would there be enough space to fit in several 9 Volt 1604 style transistor radio batteries? Peeking around the internet via Google searches I found that others before me had the same idea, which was covered on the Antiqueradios.com forum a few years ago. Rather than using shrink tubing, I just used good quality electrical tape, and it worked fine! In fact, since the 9 volt batteries are physically larger they should have a higher current rating and will probably last a bit longer before needing replacement. By the way, a good source for 9 Volt transistor batteries is your local Meijer store, which sells good American made batteries in a three pack for about the same cost as a package of two made by the bunny sells for. They have good deals on AA, C and D cells as well, especially when they are on sale.

BUSINESS CARD ADS

We invite all of our members to scan and send in your business card to be included in *ARCI News*. For \$80 your card will appear in the next 6 issues! Your card will be seen by approximately 400 people per issue and up to 1,000 people at *Radiofest* where we make additional copies of *ARCI News* available at no charge. If interested, please scan your card and send it to jbart1964@gmail.com and mail a check for \$80 to Rudy Hecker, ARCI Treasurer, 127 Weymouth Court, Schaumburg, IL 60193. Thank you all for your continued support of ARCI!!!



The business card features a collage of vintage radio-related items: a large clock on the left, a tube radio in the center, and a satellite dish on the right. The text is centered and reads:

Just Radios
Capacitors & Resistors for Tube Radios

David and Babylyn Cartelton
6 Ferncrest Gate, Scarborough
Ontario, Canada, M1W 1G2

www.justradios.com
justradios@yahoo.com
(416) 502-8128



CLUBING AROUND

ANTIQUÉ WIRELESS ASSOCIATION

The Antique Wireless Association will have its next meeting in May 2016 at the AWA Museum in Bloomfield, New York. The AWA, our national affiliate, publishes the *AWA Journal*, the *AWA Review* and *The AWA Gateway*. The latest edition of *The AWA Gateway* is available for free at <http://www.antiquewireless.org/awa-gateway.html>. Dues are \$35 per year. Information can be found at <http://www.antiquewireless.org/>.

WISCONSIN ANTIQUE RADIO CLUB, INC.

The next WARCI meetings will take place Jan. 17, Mar, 20, Apr, 30, May 22, July 17, Sep. 18, Nov. 6 at the The Terminal, 5917 S Howell, Milwaukee, WI 53207. Note the April 30 meet is a combined meet with the Ozaukee Radio Club, a local Amateur Radio club. The address for that event is Columbia St. Mary's Center, W67N866 Washington Ave., Cedarburg, WI 53012. For information about the club, please contact President Nicholas Tillich at president@warci.org or see the web site at www.warci.org.

NORTHLAND ANTIQUE RADIO CLUB

The Minnesota Club has its next event is scheduled for February, 2016, a workshop and outdoor mini-swap meet. Radio Daze, the Upper Midwest's ultimate vintage radio collecting event, will be held May 20-21, 2016. For more information and the date which will be announced, please see <http://www.northlandantiqueradioclub.com/index.shtml>.

MICHIGAN ANTIQUE RADIO CLUB

MARC's next meet is scheduled for May 2016. Details will be announced. Please see the MARC website for more information at <http://michiganantiqueradio.org/>.

INDIANA HISTORICAL RADIO SOCIETY

IHRS Winter Meet will be announced. For more information please see <http://www.indianahistoricalradio.org/ihrsched.htm>.







ARCI NEWS

Antique Radio Club of Illinois

PO Box 1139

LaGrange Park, IL 60526