



The Oscillator



"All the Electrons that are Fit to Flow . . . "

THE OFFICIAL NEWSLETTER OF THE DVHRC

SUMMER 2019

Kutztown XL Review



Above: At KTZ40, we found the brothers Schwartzman, Dan and Mike, who grew up with a passion for radio within the ham and vintage hobbies. Many Kutztown XL pictures can be found on the following link or DVHRC website: <https://john-h.smugmug.com/Kutztown-XL-Twenty-Years-May-2019/>

Kutztown 40 was a celebration and commemoration of the 39 DVHRC shows that came before and the legacy built over that time by the founders and club members' improvements to the series. A cool, wet Friday morning did not dampen spirits and kept the pavilions busy with buyers. Friday night's auction set records for participants and average weight of sets sold with many boat anchors and ham gear from the Joe Cro estate. The runners who would later need massages and Ben Gay treatments, auctioneer



Pete Grave, Stan Saeger as chief clerk, and Dave Snellman, planner and keeper of records were the amazing folks behind the staging and delivery of many lots in a short time. This allowed participants to catch the camp fire and a late meal at "Just Grillin" who kindly kept their chuck wagon open. Planning and improvements of the Kutztown XL event began during preceding DVHRC membership meetings in Telford with discussions led by Jarret Brown.



Above: A very deserving Tom Hayes received the prize for best display awarded Friday at noon.

Check out Tom's club website and newsletters at: <https://www.alabamahistoricalradiosociety.org>

Below: Some pix of Tom's KTZ-XL display.



Below: Jarret Brown, DVHRC president, awards winner of the Bendix 526C catalin set, a truly special raffle radio to commemorate K-town XL!



DVHRC invites you to Kutztown XLI in Sept. 20-21, 2019. See a special announcement, next page.

Delaware Valley Historic Radio
Club
PO Box 5053



New Britain, PA 18901
www.dvhc.com

The Oscillator is the quarterly newsletter of the Delaware Valley Historic Radio Club.

Articles on radio and television history or collecting can be submitted by the 25th of month prior to quarterly issue dates of April, July, October and January to the editor at gdottor@yahoo.com.

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

Dues are \$20 per year and can be paid at a meeting or mailed to the above address. Meetings held 2nd Tuesday of each month at Telford Community Center.

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HAMPTON INNS & SUITES BY HILTON- KUTZTOWN CAMPUS
For those of you attending the next Kutztown Radio show September, 20, there should be a new lodging destination for those seeking a location very close to Renninger's. The nationally branded Hampton Inn & Suites by Hilton is projected to open September 6th barring any construction delays. Location is at the site of the former Campus Motor Inn just ½ mile west of the KU campus @15080 Kutztown Rd.



Although the local registration desk is not yet operational, there will be a chance of booking a reservation by leaving a message (484) 641-8800 Option 1- Sales. You will receive a response about rates. Although AAA discounts will be honored, the hotel will not yet appear on the online booking apps at this time. This will be a 64,000 square-foot, 100 room facility featuring two conference rooms, fitness center and indoor pool.

Tubes Needed for DVHRC Kutztown Inventory



The most sought after tubes are always in short supply. During your summer appraisals, please be generous by donating to DVHRC's tube program. Following are a list of the tubes the club is looking for. Dave and the DVHRC will be grateful for your efforts.

Any and all Globe tubes,

Any high end audio tubes ,

Any "unusual" transmitting tubes.

5751	10
5842	12A7
6AQ8	2A3
6AZ8	45
6BD8	6Q7G
6DC8	6U7G
6BK8	85
396A	12AX7
417A	83
6072A	6SN7GT
EL37	1L6
6A3	50A1
6F5	6L6GC
6F6	6L6GAY
6L6GA	6L6GB

2019 Meeting Themes

Jul 9- Tailgate Auction- on the parking lot of Telford Community Center, some shade but *remember the earlier starting time.* **7:00 PM**

Aug 13- Phonographs, 7:30

Sep 10- Kutztown XLI Planning, Deco show and tell. 7:30

Oct 8- Repairing a Radio. 7:30

Nov 12- Decade- 1980's Radios 7:30

Dec 10- X-mas Party at Stove N' Tap

Meeting of April 9, 2019

The theme of this membership meeting was "I'd never sell this radio". We all have reasons, be they fond memories, shared family interest, and other qualities that forever binds us to these sets.



Above and Below: Dave Dean shows rare Revere model 400, one of only 1,000 produced. Capable AC or battery operation, the AC power cord is smartly concealed in the leather carrying strap and the loop antenna, in its lid. Although this superhet performed well, Revere quickly discontinued radios to concentrate on movie cameras and tape recorders- see history below.



Founded in 1920 in Chicago, Illinois, as the *Excel Auto Radiator Company* by Ukrainian immigrant Samuel Briskin to manufacture car radiators, but started manufacturing some coarse household products later in the decade.

Built for Excel – and designed by Alfred S. Alschuler, the manufacturing facility was located at 320 E. 21st St., Chicago, Illinois. They started making budget 8 mm movie cameras in 1939 through a subsidiary run by Briskin's sons. That company was later merged into Excel Auto Radiator Co., which then changed its name to Revere Camera Co. The Revere name is taken from the Revere Copper Company, which provided financial backing for Excel during the depression.

In November of 1952, Revere purchased the nearby Atwell Building – also designed by Alfred S. Alschuler – at 221 E. Cullerton St., Chicago, Illinois – and operated machinery on four of the building's eight floors. In the 1950s, the company was the second largest manufacturer of small movie cameras in the United States. In order to grow that business further the company took over their primary lens and shutter supplier, New Jersey-based Wollensak Optical Co. The Revere brand name had become synonymous with budget cameras; soon after the take-over Wollensak models appeared that were mechanically almost-identical to the standard Revere models but had better lenses, more stylish casing, and sold for a premium price.

Revere started manufacturing tape recorders in the early 1950s, that side of the business never became an important part of the company's output.

Samuel Briskin was diagnosed with inoperable cancer in 1960 and rather than leave the company to his family he decided to sell the company to 3M for \$17 million (equivalent to \$144 million in 2018). Many of us boomers remember the sturdy Wollensak (by 3M) reel to reel tape recorders in a stainless steel case used by many school districts and shared between classrooms. Hearing your recorded voice for the first time as a youngster could be a chilling experience!



Above: Dave Dean says his wife fancies this handsome 1942 Emerson model 455 in a high end Ingraham cabinet. This has the same chassis as the model 432. Check out the following youtube link for some more interesting facts and an electronics rehab project demo on this model: https://www.youtube.com/watch?v=_ozvGIAyLVw



Above: Pete Grave would never sell these radios from his introductory years in the hobby. Pete's dad procured a 1946 Admiral set (model 6T01) on the left with sixth tube acting as a tunable RF stage and more sensitive than the typical AAs. Pete has fond memories of pulling in his first DX from all over when connected to a long wire. The S38 was another 6 tuber, the earlier better version of the S38 series with true BFO. Dad bought unit to keep peace in the living room where Pete had taken over the family console. His dad did not like the sound quality of the S38 and later bought a nice Jensen external speaker to match. Pete acquired a wooden case housing a twin S38 later seen on right at a hamfest where such bargains are found.

Below: Mike Koste presented the distinctive Detrola T3 from 1937, expertly renewed including a rebuild by our own Lowell Schultz and the motorized tuning gears by Lowell's associate clock maker who cut new brass gears. Mike's wife lovingly made the original purchase of this one from a NJ antique store. With its Egyptian styled escutcheon and recreated period correct station buttons, this is one of Mike's favorites and will never part from his household.





Above and Below: Stan Saeger was invited to view a basement collection where among other more common radios, was this diamond in the rough. However, it was a true triage situation as rodents, cobwebs, grime and other surface maladies caused by years in dampness had to be overcome. This is the Zenith S829, expertly restored to its glory with some help from his friends for portions of the project. Lowell helped with the cabinet, Chuck referred Stan to a re-chroming shop, a speaker was reworked and Stan rebuilt the electronics and used RTV (room temperature vulcanizing) to reproduce the knobs. Zeniths of this era were extremely well built.



Upper—left to right
MODEL 805—ZENITH
 LONG DISTANCE RADIO
 5 tube midset. 15½" high, 12½" wide, 8½" deep. Price \$29.95.
MODEL 829—ZENITH
 LONG DISTANCE RADIO
 7 tube midset. 18½" high, 15" wide, 8" deep. Price \$69.95.
MODEL 808—ZENITH
 LONG DISTANCE RADIO
 6 tube midset. 16½" high, 12" wide, 8½" deep. Price \$49.95.

You've always been convinced in your own mind that Zenith reception was superior . . . way and above all other radios at anywhere near the price! Now that difference is so apparent that you can demonstrate it . . . by ear . . . by any showroom display demonstration! Zenith for 1935 . . . a new line of Long Distance Radios . . . proves beyond argument that here is the superlative in both European short wave and standard reception today!



Above: Jarret Brown shows off a handsome Stromberg Carlson "Treasure Chest" TRF set. Jarret's wife found this interest while touring an antique store in upper New York state and this radio was likely produced nearby in Rochester. The radio is a strong player with a huge (Carlson) speaker. Although Jarret displayed this 5+ foot set via projected image, it's good to have a large vehicle when you travel!

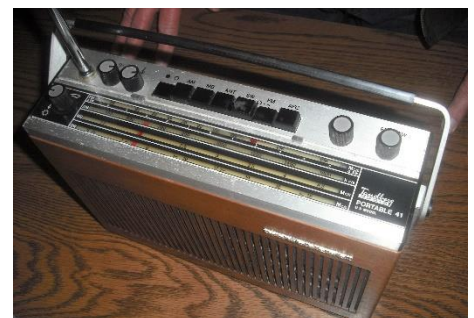
Below: The finely crafted cabinet was made by the Lundberg Company of Rockford, Illinois and is especially beautiful when the doors are closed. The underlying chassis seems similar to the smaller treasure chest series such as the 635B.



Above: Greg Dottor would never give up his Heathkit GR81 super regenerative receiver which he built back in 1965. The radio, although named the "Economy SWL Radio", is well thought out having an isolation transformer for safety and employing a typically excellent assembly manual which was a hallmark of all Heathkits. Greg demonstrated heterodyning over an adjacent radio when the regeneration goes into oscillation as radiated from the antenna at frequency. Heathkit green still looks great after all these years.



Above and Below: Terry Skelton has always enjoyed his Tandberg Portable 41 built in Norway during the 70's. It has amazing fidelity with powerful audio and is available with car adaptor for mobile use. See the following link for review of this fine set: <https://radiojyallen.com/tandberg-tp41-portable-41-amfmsw-radio/>



Some Housekeeping Notes

Web references herein may need to be copied or manually entered into your browser. Please offer any suggestions to improve this newsletter as well!

We are always looking for a good story to publish, especially projects and technical fare which are harder to come by. You may forward them to:

gdotto@yahoo.com

RADIO BUSINESS 2019

WEEU purchased by Twilight Broadcasting *Reading Eagle 6.21.19*

Twilight Broadcasting, which operates two radio stations in Oil City, Venango County, has separate agreements in place to purchase WEEU's federal broadcasting license (winning bid of \$88,000) and to lease its broadcasting facility and towers, said Twilight's general manager Todd Adkins.

"We're very excited," Adkins said Thursday afternoon. "It was a strenuous process to get to this point today. A lot of back and forth, attorneys, brokers. To be honest with you, we were at a point this morning where we didn't think it was going to happen."

WEEU has 11 full-time employees, and Adkins said Twilight's intention is to keep them all on board.

WEEU's operation manager and radio host Mike Faust said the station is ecstatic and the news that the station has a buyer is like

an answer to prayers. "This is just a tremendous day," said Faust, who broke into "The Rush Limbaugh Show" Thursday to announce the agreements. "We're excited to work with these guys, and they seem like really good guys. "They're like saviors. They want to keep the local programming. That's the best-case scenario." Adkins said Twilight does not want to be considered saviors.

"We're radio people that see heritage here in this radio station and the great people that work for it, and we wanted to make sure it didn't go away," he said. "We're not heroes by any stretch of the imagination. We just want, as fellow broadcasters, to not see something go away that has value."

WEEU went on the air in December 1931. It is the oldest continually operating radio station with its original call letters in Reading and — until the sale is finalized — the only locally-owned and operated radio station in the city.

Reading Eagle Company purchased the station Dec. 1, 1946, for a reported \$250,000, and WEEU moved into its present building at 34 N. Fourth St. in 1969.

Reading Eagle Company filed for Chapter 11 federal bankruptcy protection March 20, citing an untenable financial situation. The company went up for sale, and a bidding process resulted in just

one qualified bid from MediaNews Group for \$5 million.

MediaNews Group bought the station's assets — its building, tower, equipment and other property — but didn't buy the station's FCC license. That license is needed to legally operate a radio station, and it was feared the station would go silent when the sale is finalized June 30.

Adkins said it probably would take 30 to 60 days for the FCC to issue the license to Twilight. "During that time, we essentially will be running the station as the brokerage programmer — we'll be the programmer of the station, but not necessarily the full owner of the license until it's cleared," he said.

Adkins said he doesn't anticipate any significant changes to the station or its programming. *However, he said, Twilight will examine the station's finances to determine what, if any, changes need to be made.* "Once we get a clearer picture of what the financials are, then we'll be able to make a determination of how we operate going forward," he said. "But our full intention, as radio people ourselves, is to keep everything intact and keep the quality product that WEEU has always had."

Since this story, our local radio sage reports: They're not spending any more though. They give the morning show an extra hour. They bump Feedback to 10 to 1. Then another local talk show(s) 1 to 4. Hosted all by the established full-

timers who during their free hours off air were doing other things like promotions, traffic, and production. So it seems like they're just multi-tasking their current staff more. I also heard all full timers are taking a pay cut. So save a few thousand on dropping Limbaugh and a few more thousands times 11 on staff and at the same time, get 13 hours of local programming out of it. Interesting maneuver.

Cumulus Sells WABC New York To Red Apple Media *RadiolINSIGHT* 6.27.19

Cumulus Media has announced the sale of Conservative Talk 770 WABC New York to Red Apple Media for \$12.5 million.

Red Apple Media is a subsidiary of billionaire John Catsimatidis' Red Apple Group which includes holdings in real estate, oil refineries, supermarkets and the Hellenic Times newspaper. Catsimatidis was a longtime donor and supporter of the Clintons but ran for mayor of New York in 2013 as a Republican.

Catsimatidis also hosts a weekly show on Sunday mornings for Salem Media Conservative Talk "970 The Answer" WNYM Hackensack NJ that also airs in Long Island, Philadelphia, Washington DC, Tampa, Pittsburgh, Buffalo, and Syracuse.

In a brief statement Catsimatidis said, "I am very pleased that Red Apple Media Inc. has agreed to acquire 77 WABC Radio. The station is a real New York legend with a rich history in broadcasting. I started a radio show five years

ago which is now available in 14 states and on the internet. It has gained a large and loyal audience. Our purchase of 77 WABC Radio is the next step in building a new broadcasting business, and we look forward to considering the acquisition of more broadcasting assets. We plan to retain the excellent staff and talent working at the station now and look forward to working with them."

The sale of WABC follows Cumulus' sales of 94.7 WNSH to Entercom and 95.5 WPLJ New York to Educational Media Foundation. Cumulus retains only Urban AC "Radio 103.9" WNBW Bronxville NY from its New York cluster.

A Mary G. Berner, President and CEO of Cumulus, said, "Today's agreement with Red Apple is yet another step in the execution of our *portfolio optimization* priority to drive Cumulus's long-term success. Consistent with our financial goals, we intend to use the sale's net cash proceeds to pay down debt and invest in the Company to better serve our 250 million listeners and advertisers who want to reach them. We are also pleased that WABC's excellent team will work with Red Apple following the transaction's close to continue building this iconic station's legacy."

Under the terms of the agreement, Red Apple will take responsibility for programming WABC following the close of the sale, in the third quarter of 2019. The transaction is subject to regulatory approval.

Our radio sage says: Found this transaction interesting considering what we were just speaking about how "cheap" WEEU sold for. I was just talking to some of my radio friends about this one. WABC sells for only \$12.5 million? This is a radio station that at one time was perhaps the biggest radio station on the planet in the #1 market in the country. \$12.5 million is really not much when you think of it, especially when FM stations are going for double and triple that in other markets. Times are changin'!

How to Make a Small Fortune in Radio... 6.11.19 by Fred Stiening

Start with a big fortune!

Jeff Smulyan, the CEO of Emmis Communications, fancies himself to be the pied Piper of radio. He was the guy who tried to force Apple to turn on the hidden chip that would allow your iPhone to listen to over the air radio (and report usage back to Emmis!). Nextradio died in 2017.

Emmis bought 50.1% of an 8 station cluster of stations in Austin, TX for \$105 million in 2003. He is unloading them for \$24 million, which will pay down debt. The buyer is the minority share owner, a minority owner before Emmis bought control. You might recognize the call sign of KLBJ... <https://www.ibj.com/articles/74120-emmis-selling-six-radio-stations-in-austin-texas> His remaining handful of stations are big urban stations targeted at Urban audiences, and in his home town of Indianapolis. **Check breaking radio news at this site:** <https://streamingradioguide.com/>

DVHRC Radio Clinic- July 27



DVHRC will be at the National Museum of Industrial History in Bethlehem, Pa. on Saturday, July 27, 2019, 10AM- 2PM. Remember to be safe with your radio as dangerous currents may be present-so why not have the experts carefully review your set? Combine this with a tour of the "Don't Touch That Dial" Exhibit (see below). <http://nmih.org/event/radio-repair-extravaganza/>

More Regional Events

Following are some excellent programs and a reason to have multiple club memberships in our region's clubs! Some of what follows and even more hamfest events can be viewed via this website: [n2lvi delaware valley area hamfests](http://n2lvi.delawarevalleyareahamfests.com)



National Museum of Industrial History, Bethlehem, Pa. "100 Years of Radio" Exhibit Running through Nov. 3, 2019. The event coincides

with the 100th anniversary of RCA. 100 Years of Radio will feature over 100 historic radios, components and ephemera.



Where: 602 E. Second St., Bethlehem, PA 18015. NMIH phone # is 610.694.6644. nmih.org

Valley Forge (Kimberton) Hamfest-Mid-Atlantic ARC Saturday, 07.13.19: 8 AM, Vendors 8 AM; Mid-Atlantic ARC, PO Box 557, Eagleville, PA 19408 Contact: Jeremy Carlo, N2ZLQ, 917-612-2163. Cost: \$6 (ULS, kids free); Tailgate: \$6 (plus admission); indoor table w/electric: \$10 1-4 tables, \$8 for 5 or more (plus admission). VE Testing*: Arrive at 9:45 AM, starts 10 AM; Testing Info or contact Dick Stewart, K3ITH, at k3ith@arrl.net Where: Kimberton PA, Fire Co. Fair Grounds, Route 113, south of the intersection with Route 23. <http://www.marc-radio.org>

NJARC Summer Tailgate Summer Swap meet Saturday, 07.20.19, 8AM to 12PM, vendor setup 7:00. Outdoor event in the shade of the trees at historic Camp Evans, InfoAge. Cost: \$5; Vendors \$25 per table (non-members \$30) bring your own tables. Vendor setup 7:15 AM, Walk-around auction starts at 11:00. Free appraisals. Expert antique radio repair available. Refreshments available. Contact: Richard Lee, 914-589-3751 (radiatorich@prodigy.net) or

Sal Brisindi, 732-857-7250 (salb203@al.com). Where: InfoAge Science History Learning Center and Museum, 2201 Marconi Road, Wall Township NJ 07719; Garden State Parkway SOUTH to Exit 100, or North to Exit 98.

<http://www.njarc.org/directions.html#swapmeets>

National Museum of Industrial History, Bethlehem, Pa. "Ham Radio Live" Sunday, July 21, 19, 10 AM to 5PM. See an amateur radio station in action with members of the Delaware-Lehigh Amateur Radio Club! Learn what a QSL card is, how NMIH's radio station can talk to people across the country, and even try your own hand at the radio. <http://nmih.org/event/ham-radio-live/>

Reading Radio Club Mini-(Ham)Fest Saturday, 08.03.19, Opens: 8 AM, Vendors 7 AM; Auction at 12 Noon (for unsold items buyers wish to auction off). Cost: \$2, spouse & under 18 free; sellers \$5. VE Testing*: 8:30 AM (free admission for VE Exam only; test fee applies). Email: harryhoffmanjr@juno.com. Where: Heritage Park, 992 Clematis St, Sinking Spring, PA. See website for details and nice newsletter: <http://www.readingradioclub.org>

Kutztown Radio Show XLI Friday, 09.20.19 through Saturday, 09.21.19 opens 7am. Vendor setup starts 12 noon Thursday 9.19.19. Auction starts @ 6:00 Friday. No Early entry shoppers Thursday, Dealer Tag required for setup Thursday noon. Cash awards and raffles. Free parking and free admission for shoppers. Where: Renningers

Farmer's Market, 740 Noble St., Kutztown, PA 19530. Antique radios, parts, and related items. Audio and Ham welcome. 10 x 10 space includes table, electric for \$45, extra table \$5. Contact: Lewie at 610.262.3255 or email

Lewallie@aol.com. Exhibitor

reservation advised: Phone M-Th 570.385.0104; F-S 610.683.6848. See links at: www.dvhrc.org or facebook.com/renningerskutztown

Hamfest- RF Hill Amateur Radio Club

Sunday, 10.20.19, 7AM to 1PM for general public, 6AM for vendors.

Indoor tables \$12 for vendors or \$10 reserved in advance, outdoor spaces available \$8. VE testing begins at 10AM sharp. Where: Sellersville Firehouse, 50 N Main St., Bethlehem Pike, Sellersville, PA. Contact Jim Soete, WA3YLQ at 215.723.7294.

See website for details including flyer: <http://rfhillarc.org/events>

MAARC Radio Fall Fest Sunday, 10.20.19 11AM to 5PM. Tailgating at 8 AM and auction at 12:30 (earlier if raining). Where: Davidsonville Family Recreation Center, Address: 3789 Queen Anne Bridge Road, Davidsonville, MD.

See the MAARC website for details: <http://www.maarc.org/>.

BEGINNERZ

Safety Precautions

It is useful to obtain a hard copy reference for understanding theory and learning in a logical progression. The first chapter will always deal with safety precautions. Here is an excerpt

from "Introduction to Electronics", ISBN 1-4018-8900-X, by Earl D. Gates. The idea is to enjoy the hobby for a long time!

GENERAL SAFETY PRECAUTIONS

Because of the possibility of personal injury, danger of fire, and possible damage to equipment and materials, all work on electrical and electronic circuits should be conducted following these basic safety procedures.

1. *Remove power from the circuit or equipment prior to working on it. Never assume the circuit is off; check it with a voltmeter.*
2. *Remove and replace fuses only after the power to the circuit has been deenergized.*
3. *Make sure all equipment is properly grounded.*
4. *Use extreme caution when removing or installing batteries containing acid.*
5. *Use cleaning fluids only in well ventilated spaces.*
6. *Dispose of cleaning rags and other flammable materials in tightly closed metal containers.*
7. *In case of an electrical fire, deenergize the circuit and report it immediately to the appropriate authority.*

HIGH VOLTAGE SAFETY

As people become familiar with working on circuits, it is human nature to become careless with routine procedures. Many pieces of electrical equipment use voltages that are dangerous and can be fatal if contacted. The following precautions should be followed at all times when working on or near high-voltage circuits:

1. *Consider the result of each act. There is absolutely no reason for individuals to take chances that will*

endanger their life or the lives of others.

2. *Keep away from live circuits. Do not work on or make adjustments with high voltage on.*
3. *Do not work alone. Always work in the presence of another person capable of providing assistance and first aid in case of an emergency. People who are considering a career working in the electricity and electronics field should become CPR certified.*
4. *Do not tamper with interlocks.*
5. *Do not ground yourself. Make sure you are not grounded when making adjustments or using measuring instruments. Use only one hand when connecting equipment to a circuit. **Make it a practice to put one hand in your rear pocket.***
6. *Use an isolation transformer when working on AC-powered circuits/equipment. An isolation transformer isolates the circuit/equipment from the power source, adding an additional safety factor.*
7. *Never energize equipment in the presence of water leakage.*

ELECTRICAL SHOCK

A major hazard when working with electricity and electronic circuits is electrical shock. Electrical shock occurs when an *electric current flows through the body when a complete circuit exists*. Different levels of current produce the following results:

0.001 Ampere (1 mA)

A mild tingling sensation can be felt.

0.010 Ampere (10 mA)

Start to lose muscular control.

0.030 Ampere (30 mA)

Breathing becomes upset and labored.

0.100 Ampere (100 mA)

Death if current lasts for more than a second.

0.200 Ampere (200 mA)

Sever burns, breathing stops. Death.

One technique to reduce current flow is to increase body resistance. Body resistance is high when the skin moisture content is low with no cuts or abrasions at the point of electrical contact. In these situations, very little current will flow, with a mild shock resulting.

If the situation were reversed with high skin moisture content, lowering the body resistance, a large current would flow. If the current flows through the chest region, the heart could go into ventricular fibrillation, resulting in rapid and irregular muscle contractions and leading to cardiac arrest and respiratory failure.

The factors that influence the effects of electrical shock include:

Intensity of the current

Frequency of the current

Current path through the body

Length of time current passes through the body

Remember, it is the amount of current flow through the body, not the amount of voltage contacted that determines the severity of a shock. The larger the current through the body, the greater the effect of the shock.

We provided an article regarding the safeguarding of "hot" radio chassis in the *Summer 2017 DVHRC Oscillator* and you may also check out the related story via this link:

<http://www.geojohn.org/Radios/MyRadios/Safety.html>

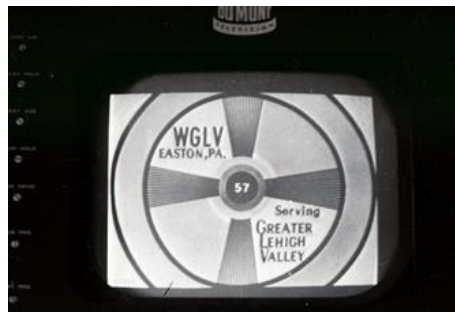
Before there was Philly 57

<http://www.hartfordradiohistory.com>

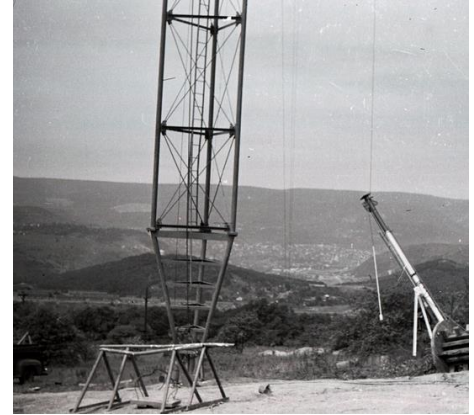
An interesting story popped up on this site regarding the first but failed UHF television station in the Lehigh Valley, showing photos of the installation of the WGLV-TV, Easton, PA. transmitter, tower and antenna. The station, on Channel 57, was licensed to The Easton Publishing Company who, at the time, operated WEEX-FM (at 98.9-FM later moved to present day 99.9-FM) and owned The Easton (PA) Express. The station was in operation from about 1953 to 1958. From what I understand, its studios were located off PA 248 in Palmer Township near the present day Palmer Park Mall.



As you can tell from some of the photographs, the station was completely built with DuMont equipment and was a DuMont affiliate. It also broadcast some ABC programs at the time. The co-owned newspaper helped give the station some promotional support, but it never quite gained an audience due to the fact that it was on UHF and UHF tuners were rare to find in those days.



At the time, it was quite difficult to receive the Philadelphia television stations because their signals were blocked by South Mountain.



In 1956, when Philly moved their towers to their present location at Roxborough, this spelled the end of WGLV-TV. The station went dark by Summer 1958 and the frequency (Ch 57) was assigned to Philadelphia. The Lehigh Valley gained its own television station in 1965 with WLVT-TV in Bethlehem and later in 1976 with WFMZ- 69.



This is Gary Owens on vacation reporting from Atlantic City. I wish they all could be California girls!