



# The Oscillator

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



## THE OFFICIAL NEWSLETTER OF THE DVHRC

### Club News

Kutztown 47 is now in the rear view mirror and brought us all together in many good ways. As discussed at our June meeting, we always discern methods to do better and respond to your wants and needs for future events.



**Above:** At KTZ47, it all starts with DVHRC volunteers along with Renningers personnel.

**Below:** Captured with camera in hand, John Hagman surveys Friday's auction table. Please see his always excellent photo essay of KTZ47 at: <https://john-h.smugmug.com/Kutztown-Meet-May-2023-Vintage-Electronics-Marathon/>



Also, see RadioWild's YT Video at: <https://www.youtube.com/watch?v=oMKQbIUmHQg&t=1s>

**Below:** Winner of the raffle radio, personally delivered by our own Dave Abramson to winner Dave Gochbauer of Lititz, PA. Thanks to Tom Lager for his expert renovation of this handsome Aircastle! DVHRC will endeavor to bring you some even more distinctive sets in the future. Do not hesitate to buy many raffle tickets next time!



One thing observed as a major trend is for the *Buy It Now* table to offer some very nice items, sometimes appearing out of the blue.



**Above:** Our own Mark Hilliard found this RCA WV-38 Volt-Ohm-Milliammeter which required repairs. He found the former owner had missed a dead short and now is proud owner of this buy it now find. There's gold in them hills!

Club volunteers have been vigilant

## MID-SUMMER 2023

to manage these items as some kind souls seemingly "donate" their exceptional sets without a trace. DVHRC thanks those who do so!

### Celebration of Life

Friends of the late Pete Grave got together on June 12<sup>th</sup> at the Richland Friends Meeting in Quakertown to celebrate this wonderful man and DVHRC original member. In the Quaker tradition, testimony was given, interspersed with silent reflection in a very touching display of love for this man. We heard of Pete as an encourager, life coach and guide, of his keen mind, his love for family, and the gleam in his eye when he had an idea. He would go out of his way to help so many as his friends became family. We heard many stories and learned even more about the man. A luncheon was served with many classic cars in attendance as well!

<https://www.heintzelmancare.com/obituary/peter-grave>



**Above:** Pete was fond of nearly every Packard and supplied parts and repairs for many of these.

# Delaware Valley Historic Radio Club

PO Box 5053



New Britain, PA 18901  
[www.dvhrc.com](http://www.dvhrc.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 25<sup>th</sup> of month prior to quarterly issue dates of April, July, October and January to the editor at [gdottor@yahoo.com](mailto: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 2<sup>nd</sup> Tuesday of each month at Telford Community Center.

## DVHRC Board of Directors

### President:

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### Vice President:

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[gdottor@yahoo.com](mailto:gdottor@yahoo.com)

## Speaker Repair Service

As discussed at a recent meeting, here are several vendors who repair loudspeakers. The first is operated by Nick Dorazio in Florida. Jarret Brown had a quick turnaround of 10 days to repair a speaker of a Zenith radio where his purchased radio was packed too securely causing proximity damage of the speaker cone.

Check out this awesome website.  
<http://thespeakershop.com/speakerrepair.html>

Other vendors who do speaker repairs locally include Sound Remedy and Miller Sound.  
<https://ammonlabstrainingacademy.com/soundremedynj/>

<http://millersound.net/index.html>

Unrelated to the above, it was also mentioned that to continue membership in the Antique Radio Forum, you will need to re-verify your credentials online.

## Tubes Needed for DVHRC Kutztown Inventory



The club has been organizing and eliminating obsolete tube types. This inventory review process continues with recounts and recording changes in the database. During your summer appraisals, please be generous by

donating these oft-sought and popular tubes to DVHRC's program. Following is a list of the tubes the club is looking for.

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

## 2023 Monthly Themes

Here are the remaining themes for our Telford meetings. Access to these can also be found on our web page [Events tab](#).

[Jul 11](#) - All Transoceanics.

[Aug 19, Saturday](#) - Tailgate Swap Meet under the pavilion at Renningers, Kutztown **10AM**.

[Sep](#) - No Monthly Meeting.

[Sep 15 & 16](#) - Kutztown XLVIII Antique Radio & Vintage Audio Show.

[Oct 10](#) - The 1930's.

[Nov 14](#) - My Favorite Console(s). Due to size and our aching backs, please bring flash drive with image(s), picture(s), or email them to JB. May also bring paper media and technical data. These may be displayed via projector at meeting.

[Dec 12](#) - X-mas Party at Red Cedar Grille, Colmar.

## Moskvich V (1948-1963) Presented by Jiri Placek

3.14.2023 Jiri presented details on the development of this of the post-WW2 radio receiver Moskvich-V serving as a kind of Soviet "peoples radio".



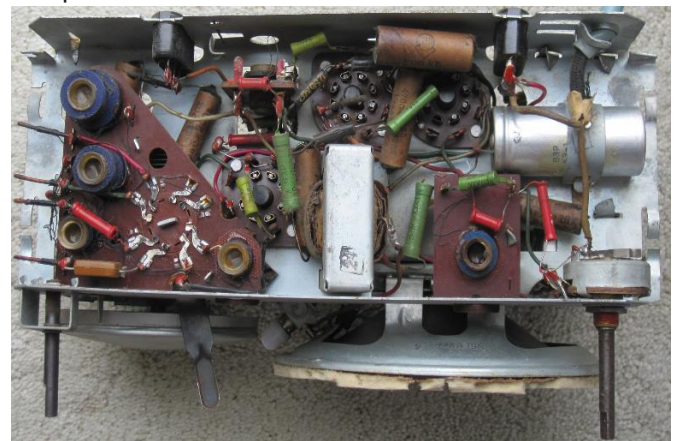
At the end of WW2, much of the infrastructure of the Soviet Union had been laid waste, personal radio receivers in the formerly occupied territories were confiscated by Germans, and radio production was paused due to the war effort, requiring them to start from square one. Initially, *wired radio* for community distribution with connections to most residential buildings would most quickly and economically supply limited programming to the masses with dependable reception. People may have shared a single receiver or loudspeaker at the outset but the wired medium proved popular and grew over time. The second phase was to actually procure components and then enable manufacture of a simple, inexpensive, and easy to make "people's radio" wireless set with specific goals in mind.

Design considerations:

- superheterodyne
  - long distances
- simple
- inexpensive
- appealing design
- Moskvich = Muscovite



With these design considerations, the Moskvich-V (Moscovite), showing broadcast and long wave bands on the above version, required scarce components and distribution to various wide-ranging geographic regions. It was to be manufactured in 9 plants with small differences and several dial art designs, the plant noted only by the dial ID. The dial with picture of Kremlin is the most desired version for collectors. One of the largest challenges for mass production would be to procure electronic components. Manufacturing technology of US design vacuum tubes was already established due to the licensing deal with RCA from 1936 while other parts acquisition was accomplished during post-war occupation of Germany in the form of reparations. The "scooped" productions assets were those 100% German owned, such as Siemens, as the Soviet Union avoided confiscation of manufacturing facilities partially owned by its WW2 allies. Such evidence shows up in the parts complement showing Siemens-like military grade components on this 1954 version.



Aluminum was in short supply before and after the war as evidenced by the coils with no enclosure, open to air. During the war, Allied forces' bombing had been aimed

mainly at German or Swiss owned electrical manufacturing plant interests as to inflict the most damage on their facilities while sparing electronics facilities affiliated with foreign interests, including the United States as GE and ITT partnered and shared ownership with AEG and Telefunken. The following graphic shows evidence researched by Antony Sutton who assessed US support for “corporate socialism,” aimed to stifle Soviet economic development and competition as planned by big corporations dating back to the time of the Bolshevik revolution.

[https://en.wikipedia.org/wiki/Antony\\_C.\\_Sutton](https://en.wikipedia.org/wiki/Antony_C._Sutton)

### A.E.G. Avoids the Bombs in World War II

Sutton: Wall Street and Rise of Hitler (1976)

By 1939 the German electrical industry had become closely affiliated with two U.S. firms: International General Electric and International Telephone and Telegraph. The largest firms in German electrical production and their affiliations listed in order of importance were:

Firm and Type of Production	Percent of German 1939 production	U.S. Affiliated Firm
<b>Heavy Current Industry</b>		
General Electric (A.E.G.)	40 percent	International General Electric
Siemens Schuckert A.G.	40 percent	None
Brown Boveri et Cie	17 percent	None
<b>Telephone and telegraph</b>		
Siemens und Halske	60 percent	None
Lorenz A.G.	85 percent	I.T.T.
<b>Radio</b>		
Telefunken (A.E.G. after 1941)	60 percent	International General Electric
Lorenz	35 percent	I.T.T.
<b>Wire and Cable</b>		
Felton & Guillaume A.G.	20 percent	I.T.T.
Siemens	20 percent	None
A.E.G.	20 percent	International General Electric

In other words, in 1939 the German electrical equipment industry was concentrated into a few major corporations linked in an international cartel and by stock ownership to two major U.S. corporations.

This industrial complex was never a prime target for bombing in World War II. The A.E.G. and I.T.T. plants were hit only incidentally in area raids and then but rarely. The electrical equipment plants bombed as targets were not those affiliated with U.S. firms. It was Brown Boveri at Mannheim and Siemens stadt in Berlin — which were not connected with the U.S. — who were bombed.

NOT BOMBED

BOMBED

(Felten & ...)

Another view below includes very basic trimmers of 1930's Phillips design using of simple wire wrapping to provide lower costs than newer ceramic cap designs. These could be adjusted (if you dare) by carefully unwrapping these wound wires.

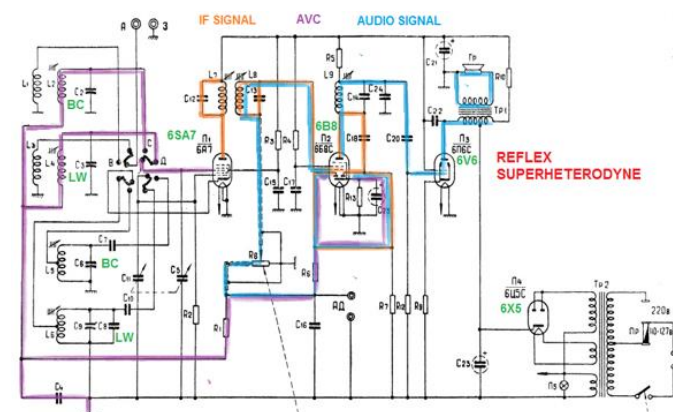
Bandswitch panel



The circuit was based on pre-WW2 German superhet circuit that minimized tube count as radios had been taxed there on tube count. The circuit was originally

three tubes but the original selenium stack, being unreliable, was later replaced by a 6X5 equivalent rectifier in later versions. The following shows the flow of the basic circuit in a reflex superhet design where the 6B8 tube does double duty as IF amplifier and detector/first audio amplifier. The use of a single IF transformer resulted in perhaps lower selectivity while sufficient IF amplification was still achieved by the reflex circuit design. This circuit is a departure from the standard AA5 version.

[https://en.wikipedia.org/wiki/All\\_American\\_Five](https://en.wikipedia.org/wiki/All_American_Five)



At 35 pages in length, the user manual is detailed in supplying service data, parts lists, and much more beyond the needs of most owners..

User Manual

КРАТКОЕ ТЕХНИЧЕСКОЕ ОПИСАНИЕ РАДИОПРИЕМНИКА

1. Назначение

2. Технические характеристики

3. Описание конструкции

4. Порядок настройки

5. Уход за приемником

6. Ремонтные работы

7. Запасные части

8. Список литературы

9. Приложение

10. Заключение



## Upcoming Regional Events

*Following are some excellent programs and a reason to have multiple club memberships in our region's clubs! Paste links into your browser to load. Also view regional hamfest events via:*

[https://www.arrl.org/hamfests/search/page:1/Location.division\\_id:AT/model:Event](https://www.arrl.org/hamfests/search/page:1/Location.division_id:AT/model:Event)

### **JD's Antique & Vintage Radio**

**Electronics Auction** Saturday, **July 15, 2023** Preview at 8 am, Auction starts 9. Jackson Mills Vol Fire Company Banquet Hall 465 N County line Rd Jackson NJ 08527. Over 300 lots. *Due to this late issue please search future auctions periodically.*

<https://jdauctionsllc.com/default.aspx?JD AuctionServices&p=1>

### **NJARC Summer Tailgate Swap**

**Meet and Ham Fest** Saturday, **July 22, 2022** 8 am to 12 pm. **Check contacts below.** Vendor setup at 7:15AM. \$5 entrance fee. \$30 vendor fee (\$25 for members). **BRING YOUR OWN TABLES.** **Where:** Infoage Science History Learning Center and Museum, 2201 Marconi Road, Wall, NJ 07719.

<http://www.njarc.org/images/njarcsummer2023swapmeetcolor.jpg>

Email: [radiorich@prodigy.net](mailto:radiorich@prodigy.net) (Rich) or [vp@njarc.org](mailto:vp@njarc.org) (Sal)

[www.njarc.org/directions.html#swapmeets](http://www.njarc.org/directions.html#swapmeets).

### **Valley Forge Hamfest (Mid Atlantic Amateur Radio Club)**

**Sunday, Aug. 13, 2023** Vendor setup at 7:00 AM, Buyers 8:00 AM. Admission fee \$10. Additional fees for Tailgate Space \$8/car parking space, Indoor \$10/table Where: Kimberton Fire Co. Fairgrounds, 762 Pike Springs Rd at Firehouse Lane,

Phoenixville, PA. See event info: [www.marc-radio.org](http://www.marc-radio.org)

**XLVIII (48)** Friday, Sept 15, 2023 through Saturday, Sept 16. Opens 7AM on those days; Vendor setup starts 12 noon Thursday.

**Early buyers will not be permitted on Thursday without a dealer tag.**

Free parking and free admission for shoppers. **Auction is Friday 9.15 at 5:30 in white room, Preview at 4:30.** Where:

Renningers Farmer's Market, 740 Noble St., Kutztown, PA 19530. Antique radios, parts, and related items. Audio and Ham welcome. Tables, electric available. Dealer spaces 10' x 10' incl. table \$50, extra tables \$10. **Exhibitor reservation advised: Phone M-TH 570.385.0104; F-S 610.683.6848.** See links at: [www.dvhrc.org](http://www.dvhrc.org) and see updated **FAQ listing below.** [https://www.dvhrc.com/Kutztown\\_101.pdf](https://www.dvhrc.com/Kutztown_101.pdf)

### **2023 AWA Annual Conference**

**Tuesday, September 27 to Saturday September 30, 2023.** AWA will be held at the RIT Inn and Conference Center, 5257 W Henrietta Rd, Henrietta, NY 14467. **The theme will be "The Broadcast Boom Years of The 1920s".** Sub themes associated with design, marketing, early broadcasting, Roaring 1920s, big changes in culture, licensing issues, US Manufacturers in the 1920s, personalities, inventors. Registration via AWA website: <https://www.antiquewireless.org/homepage/annual-conference/>

**RF Hill ARC Hamfest 2.0** Sunday, **Oct. 22, 2023** 7 am to 1 pm. **Check contacts below.** Vendor setup at 6:00 AM. **NO EARLY BIRDS!** Free Parking. Admission fee \$7. Vendor fees are \$12 indoor w/ table and \$8 outdoor

(additional to entrance fee).

**Where:** Upper County Campus of Bucks Community College, Blooming Glen Road, Perkasia, PA 18944. **Contact:**

[john@morrellfamily.net](mailto:john@morrellfamily.net) or 215-399-7685 **Info Flyer:** <http://www.rfhillarc.club/hamfest/>

## Meeting of April 11, 2023

The theme was clock radios.



**Above:** Bob Seiwel shows a 1940 Philco Transitone PT-69 with a Sessions self-starting clock and a broadcast band radio. Unlike the clock-radios that became popular later on, the clock runs separately and neither turns the radio on nor off. The clock motor requires AC. Bob says you can procure the truss pins holding back panels more economically from aircraft supply sources. The tubes used are localals 7A8 (mixer/LO), 7B7 (IF), 7C6 (2nd det/AVC/Ist-AF), along with 35A5 (AF output) and 35Z3 (rectifier). **Below:** Dave Snellman brought a trio of solid state portables including the 1961 Panasonic T92 Portalarm model including 7 Jewell Seiko watch. The Sony in the foreground is a 1990-96 C1000 AM FM that features a convenient daylight savings time switch. This travel alarm radio is AM-FM only. In the background is the ICF SW-1000T which covers LW, SW, and AM & FM but also includes a cassette recorder allowing you to record your received programs. It runs off 3 AA batteries and has an AC power supply nearly the size of the radio itself. It also includes a stereo microphone for recording.



**Below:** Dave Abramson shows off his 1971 RC-6900 time announcing clock radio. Panasonic advertised themselves as "slightly ahead of its time" and the following ad promoted this amazing set and other innovative products proving their claim.  
<https://www.youtube.com/watch?v=sB9bW1yUdL4>



**Below:** Built in layers, this AM FM unit utilizes a complex geared clock assembly operating the clock and also magnetic pre-recorded magnetic "platter" in a complex geared arrangement. The magnetic platter contains 2 recorded sectors, inner for hours, and outer band for minutes. Upon pressing the top button, a head assembly pivots on rollers between hours and minutes to read the correct hour and minute sector at about 10 seconds before the minute. There is a pause after each announcement for the head to reset to the beginning position. The same button is used to adjust the clock and also sets the time announcing disc accessing alignment. This set is 50 years old and still works well. The layered stacks and intricate electro-mechanics of this unit make it a nightmare to service but were very well built.

Panasonic "Talking Radio" RC6900



An interesting UK online video demo of the RC-6900 inner workings can be found within:  
<https://dustyoldthing.com/worlds-first-talking-alarm-clock-radio/>



**Above:** Jarret Brown displayed the Bulova model 100 clock radio of the late 50's. These attractive sets were sold at jewelry stores as a compliment to Bulova's famous watch lines. Done in distinct colors, the clock knobs, finished in faux "metallic", are scarce with repro versions available in white. The chassis is open and easy to repair and the circuit design fairly sensitive for an AA5. The following links establish some history and show the eye candy of many models along with forum repairs of the clocks. Bulova of Woodside/Elmhurst Queens, NY may have locally assembled components of tube sets but were turned down later when requesting Sony to produce solid state models. Bulova left the radio business in the 60's.  
<https://retoradiofarm.com/pages/bulova-clock-radios-simply-fabulous-darling>

<https://www.worthpoint.com/dictionary/p/tools/manufacturers-vintage/bulova-radios>

<https://www.antiqueradios.com/forums/viewtopic.php?t=37975>

<https://www.antiqueradios.com/forums/viewtopic.php?t=155111>

**Below:** Greg Dottor brought in a 1954 Philco B-712 clock radio offering the Special Services band 1.7 to 3.4 Mhz. Beginning in '53 this Philco offered this band for reception of civil defense, amateur, police, fishing fleets, fire, aircraft and marine signals. Philco all but dropped this additional band by 1955. This was also the beginning of a new model naming scheme without year reference but letter B followed by #. Successive years had next letter. 1960= H.



[https://philcoradio.com/gallery2/1954a/#Model\\_B712](https://philcoradio.com/gallery2/1954a/#Model_B712)

**Below:** Time has not been as kind to the 1954 B-712's modern look by today's collector standards when compared to Philco's prior year clock radio model 53-701.



**Below:** Mike Koste purchased a well preserved 1932 Ingraham clock with American Bosch model 305 radio at an early JD auction and just "had to have it" when he saw it! Ingraham, maker of many stylish radio cabinets for mantel clocks were also used by multiple radio manufacturers, especially Emerson. The Ingraham set is rare. They were the first furniture maker to automate and commercialize the bending of wood for beautifully distinctive designs.  
[https://www.radiomuseum.org/dsp\\_hersteller\\_detail.cfm?company\\_id=10961](https://www.radiomuseum.org/dsp_hersteller_detail.cfm?company_id=10961)



**Below:** Rear view of set shows 5 tube chassis.  
<https://radioattic.com/item.htm?radio=0260598>



Below we again list **AM flagships** for baseball of the 50KW variety. Most of these are within a skip or two but KOA may be tougher with summer lightning and other manmade interference. See how many you can log on a warm summer night! If you want to *hear it first*, rely on AM radio even as compared to the FM affiliate carrying the games. The editor has found that listening to the Phillies on his local AM outlet, WEEU 830 kHz, there is an approximate 20 seconds advantage compared to FM flagship WYSP 94.1! Check it out sometime as the network may not want to share the reason since it could be due to designed latency of streaming distribution on partnered apps such as Audacy and MLB (see story below).

FHz	Station	Team	Affiliates and Streaming
660	WFAN	YANKEES	<a href="https://www.audacy.com/wfan">https://www.audacy.com/wfan</a>
670	WSCR	CUBS	<a href="https://en.wikipedia.org/wiki/Chicago_Cubs_Radio_Network">https://en.wikipedia.org/wiki/Chicago_Cubs_Radio_Network</a>
700	WLW	REDS	<a href="https://en.wikipedia.org/wiki/Cincinnati_Reds_Radio_Network">https://en.wikipedia.org/wiki/Cincinnati_Reds_Radio_Network</a>
850	KOA	ROCKIES	<a href="https://koacolorado.heart.com/feature/d/colorado-rockies/content/2018-02-28-rockies-radio-network-affiliate-stations/">https://koacolorado.heart.com/feature/d/colorado-rockies/content/2018-02-28-rockies-radio-network-affiliate-stations/</a>
880	WCBS	METS	<a href="https://en.wikipedia.org/wiki/New_York_Mets_Radio_Network">https://en.wikipedia.org/wiki/New_York_Mets_Radio_Network</a>
1000	WMVP	WHITE SOX	<a href="https://en.wikipedia.org/wiki/Chicago_White_Sox_Radio_Network">https://en.wikipedia.org/wiki/Chicago_White_Sox_Radio_Network</a>
1020	KDKA	PIRATES	<a href="https://en.wikipedia.org/wiki/Pittsburgh_Pirates_Radio_Network">https://en.wikipedia.org/wiki/Pittsburgh_Pirates_Radio_Network</a>
1080	WTIC	RED SOX	<a href="https://en.wikipedia.org/wiki/Boston_Red_Sox_Radio_Network#Vermont_(10 stations + 3 translators)">https://en.wikipedia.org/wiki/Boston_Red_Sox_Radio_Network#Vermont_(10 stations + 3 translators)</a>
1090	WBAL	ORIOLES	<a href="https://en.wikipedia.org/wiki/Baltimore_Orioles_Radio_Network">https://en.wikipedia.org/wiki/Baltimore_Orioles_Radio_Network</a>
1100	WTAM	GUARDIANS	<a href="https://en.wikipedia.org/wiki/Cleveland_Guardians_Radio_Network">https://en.wikipedia.org/wiki/Cleveland_Guardians_Radio_Network</a>
1120	KMOX	CARDINALS	<a href="https://en.wikipedia.org/wiki/St._Louis_Cardinals_Radio_Network">https://en.wikipedia.org/wiki/St._Louis_Cardinals_Radio_Network</a>
1140	WRVA	NATIONALS	<a href="https://en.wikipedia.org/wiki/Washington_Nationals_Radio_Network">https://en.wikipedia.org/wiki/Washington_Nationals_Radio_Network</a>

**Audacy is Killing the MLB Radio Experience**-Excerpts by Pete Labuza Minn. Twins News 4.28.2023  
<https://twinsdaily.com/news-rumors/minnesota-twins/audacy-is-killing-the-mlb-radio-experience-r14080/>

Now into a second year operating for all 162 games + playoffs with the audio streaming company Audacy, MLB is allowing the company to destroy the product. Extremely delayed live broadcasts, overly loud betting ads, and more are taking away an essential form of baseball consumption. And as MLB contemplates a different form of television consumption, it is time they seriously invest in radio. In a story on GeekWire, MLB responded by noting, "Due to technological limitations in the digital space, latency of the feeds is unavoidable. We have had success working with our partner to reduce the latency times and we will continue to work on further improvements."

I will often get updates on my phone about the new score of the game minutes before the "radio" broadcast returns. (Additionally, these ads come over streaming — meaning they do not apply to the CALM Act that limits the volume of ads).

I'll just start with one example from earlier this week: I was watching the Mariners play the Cubs on MLB TV. I needed to start dinner, so I did what I usually do: put the TV on mute, and turn on the radio broadcast in my kitchen. It's a perfect compromise: the radio calls the game with more description, so I can listen carefully, and if there's a critical play, I can step over to the TV to watch the replay. I then proceeded to hear over seven minutes of ads. Much longer than they should by a mile; I walked over to the TV and noticed that the game already had two outs. By the time the Mariners had retired the side on the TV broadcast, Audacy was still feeding me ads. When it finally returned, the broadcast cut

into the game already with two outs and the batter had a 1-1 count. 10 seconds later, the batter was retired. Audacy had essentially skipped the bottom of the ninth. Since the delays began in 2022, I have contacted Audacy multiple times. According to Audacy's Support Reps, this is essentially a function of the delay of broadcast and "expected behavior." An understandable delay of 5-15 seconds, which is what most streams of sports usually provide compared to OTA and Cable broadcasts, is nowhere near what Audacy is providing.

What will actually get Audacy to fix the problem? Probably nothing, which is why I recommend those who love MLB on the radio to deliberately work against it and boycott Audacy's programs. MLB has taken some small but at least notable steps this season toward expanding baseball by listening to fans, though not without ignoring the cries of some others. It's time Rob Manfred take this step too and make Audacy deliver a workable product.



**Baseball will never be as Immediate as on AM Radio!**



This is Gary Owens wishing you a warm Summer breeze and this ball is OUTA HERE!!!!