

The Jersey Broadcaster

NEWSLETTER OF THE NEW JERSEY ANTIQUE RADIO CLUB

February 2017

Volume 23 Issue 2



MEETING/ ACTIVITY NOTES

Reported by
Marv Beeferman



MEETING NOTICE

The next NJARC meeting will take place on Friday, February 10th at 7:30 PM at Princeton's Bowen Hall (70 Prospect Ave.). Directions may be found at the club's website (<http://njarc.org>). This month's program includes a talk by Prof. Mike Littman titled "200 Years of Innovation in the State of New Jersey." We'll also continue to collect 2017 dues and entertain comments on the club's BCB DX Contest.

The ON-LINE Broadcaster

The *Jersey Broadcaster* is now on-line. Over 150 of your fellow NJARC members have already subscribed, saving the club a significant amount of money and your editor extra work. Interested? Send your e-mail address to mbeeferman@verizon.net. Be sure to include your full name.

We had a nice winter turnout for our January meeting where a "members-only" auction and, in preparation for our upcoming Broadcast Band DX contest, a DX-pedition were featured. It appears that members heeded president Lee's admonition of "no junque" since many attractive items were offered for sale. Following are a few selected photos of the evening's events:



During the meeting break, our new repair shop was open for inspection by the membership. Comments were very positive but one question that came up was "can I work on my own radios?" Although the main mission of the shop is to repair and restore radios for the RTM

THE JERSEY BROADCASTER is the newsletter of the New Jersey Antique Radio Club (NJARC) which is dedicated to preserving the history and enhancing the knowledge of radio and related disciplines. Dues are \$25 per year and meetings are held the second Friday of each month at InfoAge or Princeton University.

The Editor or NJARC is not liable for any other use of the contents of this publication.

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(Radio Technology Museum), it was decided that members are also welcome to tackle their own projects. It is hoped that in this way, familiarity with the shop and its association with the museum will aid in the recruitment of additional volunteers who will offer to devote some of their time to museum projects.

CALL FOR DUES

With the new year comes our second call for 2017 dues. Your Board feels that the \$25 annual cost (\$30 for a family membership) still remains quite a bargain in light of the club's benefits:

- Twelve issues of the *Broadcaster*.
- An entertaining and informative web site and *Reflector* for the exchange of ideas and information.
- Two convenient meeting locations.
- Unique technical presentations and contests.
- Capacitors, tubes, resistors and parts at bargain prices.
- Resources for schematics and technical information.
- A constantly expanding and improving radio museum and library with a recently added repair facility.
- Meeting auctions, estate auctions, members-only auctions, "PAL" swap-meets and our annual InfoAge tailgate.
- Repair clinics.
- Our subsidized Holiday Party ... and much, much more.

For members receiving the *Broadcaster* by mail, check the code next to your name on your mailing label. Honorary (H) and Lifetime (L) members are exempt from paying dues. For the rest, dues will be collected at monthly meetings and club activities or you may send a check made out to the "NJARC" to our membership secretary:

**Marsha Simkin
33 Lakeland Drive
Barnegat, NJ 08005**

Payment via PayPal is also available at the club's website but it will cost the club a fee. If you're receiving your *Broadcaster* via email and you're not sure about your membership status, it will be provided to you when you pay or you can contact Marsha at:

mhsimkin@comcast.net (609-660-8160)

While you're at it, you might want to consider a lifetime membership. In any case, please renew early and avoid the membership cutoff date of March 31st!



Membership secretary Marsha Simkin and member Edith Chase collect 2017 dues at the January meeting.

Also, as we begin 2017, please consider a tax-deductible gift to InfoAge to help support the continuing, all-volunteer work that preserves this National Historic Site in fulfilling its mission to maintain a science history learning center and museum. And remember - a gift to InfoAge is also a gift to the NJARC Radio Technology Museum. Donations may be made online at www.InfoAge.org or by mailing a check to 2201 Marconi Road, Wall, NJ 07719.

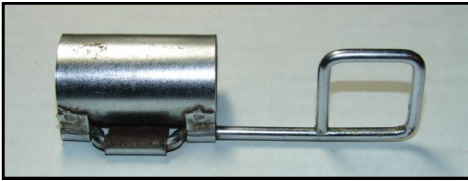
Publisher Jon Kummer has announced that the February 2017 issue of *Antique Radio Classified* is now posted on the A.R.C. web site (www.antiqueradio.com). A.R.C. will now be published every month as an online only publication. The February 2017 will be available for everyone to look at whether you're a subscriber or not. It's worth looking at. Starting with the March 2017 issue, only subscribers will be able to look at the online issues.

Kummer explained that the switch to an online publication was due to a combination of financial and marketing reasons. A good explanation for the online edition may be found in the February A.R.C. issue by reading NJARC member Dave Sica's article "An e-Embarrassment of Riches."

Some of the topics covered in the February issue include the John Terrey auction, the Kutztown swapmeet, the Tekserv Radio Auction, a Voice of America book review, classified radio advertising, upcoming radio events and radio club listings. With regard to the John Terrey auction, after the sale of some 770 items, there are still 200+ items left. If you are interested in what is still available and what are the present asking prices, go to info@terreyauction.com.

In the January *Broadcaster*, I noted that in our consolidation and organization of materials for our new repair shop at InfoAge, we occasionally come across

some interesting "stuff." Below is the item I challenged you to identify and its use - a tube puller.



Upcoming Events

- February 18th - Winter repair clinic at InfoAge
- March 10th - Monthly meeting at Princeton; topic TBA
- March 18th - Parsippany swapmeet
- April 14th - Monthly meeting at InfoAge; topic TBA
- May 6th - Spring Repair Clinic at InfoAge
- May 19th - Monthly meeting at InfoAge; Radio Scavenger Hunt
- June 9th - Monthly meeting at Princeton; Show & Tell, Hints and Kinks
- July 14 - Monthly meeting at Princeton; topic TBA
- July 22nd - Summer Tailgate at InfoAge

WHAT'S IN YOUR COLLECTION?

By **Bob Bennett**

I should begin by sharing with all of you what inspired me to begin filling my home with old radios. As with some of you, I was born in the fifties and growing up listening to New York and Philadelphia stations on my "Viscount" six transistor radio. As a six-year-old, I could not believe what I could hear about everything going on around me. News, sports, and great music - I could only hope that the battery held up!

Sundays were somewhat special. My family would go to church, then stop off at the bakery for bread and goodies, ultimately going to my grandmother's house where my parents would play "pinochle" (remember that card game?) with other family members. In that house there was proudly displayed my late Uncle's Zenith H-500 Trans-Oceanic radio. My grandfather brought the radio home after serving in the U.S. Navy.

I would sit in front of this radio and listen to the shortwave bands for hours. This opened up the "shortwave world" to me and its spectrum of different stations including ham bands which I had never heard before (AM phone, anyway). I found out that we were the "Voice of America" and I would attempt to tune in as many of those stations I could find (my early DX exploits). I just thought as a young lad that this was "so neat" and that I could never forget that radio and the smell of its "black stag" covered wooden box.

Years have passed and things have changed. I played around with old cars for a while (still do) and I didn't really get back into the radio hobby until well into the 1990's. After purchasing my home, I had a space in my basement which became my repair bench for old radios. Although I never knew where that H-500 went, that vision of my childhood was etched well in my mind and had never gone away. Now, I had the resources to find one and do any necessary work to enjoy it again.

I once thought I'd get one of every "T.O." model. I was about two-thirds there when it hit me - where am I going to put them? I kept the H-500 and a leather A-600.

I realize that by today's standards of digital, multi-band radios, Trans-Oceanics are quite bulky and heavy. There's no BFO for sideband or CW, and they are single conversion on all bands. They were special portable radios for their time.

Zenith made their first "T.O." just before WW2. By the early 50's, there were several manufacturers making the same type with a similar tube lineup including the 1L6. These radios are not that difficult to get working. Even in the worst case scenario, an IF with silver mica disease is not that hard to repair in these sets.

I constructed a battery pack to allow these radios to play outdoors. I once took one to the Outer Banks of North Carolina on vacation and it got some beach goers attention when they heard it playing. Later tube versions had a phono jack for

your 45 player or MP3.

Good condition versions of the T.O can still be had for less than \$100 with a good 1L6. Try one on for size and you may be pleasantly surprised.



Your Broadcaster editor picked a T.O. as his Mystery Grab Bag gift at the 2016 Holiday Party... unfortunately, it was quickly "stolen."

MUSEUM MUSINGS

By **Ray Chase**



Most museums such as the RTM receive regular donations of radios, documentation and other artifacts that end up as excess to our needs. At InfoAge, we have adequate storage space to handle them but some other museums are not so fortunate. The NJARC and InfoAge usually accumulate this excess and periodi-

cally auction some of it off to raise operating funds.

The National Capital Radio & Television Museum (NCRTV) in Bowie, MD, with limited storage space, recently decided to change how they dispose of their excess. Instead of selling it off, they are now offering it free to other "like" museums. We maintain a good relationship with Brian Bellanger who is the principle force behind NCRTV and have recently taken advantage of their change in policy. In December, they offered a list of books and other items that were available and Steve Rosenfeld, our diligent librarian, immediately offered to take a dozen or so for the InfoAge library. The only condition to these offers is that the recipient must retain the material and pay for shipping, or otherwise arrange for pickup. In this case, InfoAge paid for postage and the package of books arrived on January 19th.

I peeked at what we received and they are very desirable books, some on early mechanical TV. (NCRTV had also offered a complete 1 kW broadcast transmitter, but the transport of that would have been outside our capability).

A second offer came in January listing many more documents, a Biddle Time Domain Reflectometer for coax cable testing and a WWII Iconoscope TV camera tube. Steve jumped on the documentation list and checked off 40 or so books and I put in a request for the Biddle and the Iconoscope. In this case, I was planning to go to the Mid Atlantic Antique Radio Club (MAARC) swap meet held on January 15th at the National Electronics Museum (NEM) in Linthicum, MD. Brian arranged to meet me there with the goods and I could thus defer the transportation cost.

Again, the books are desirable additions to the library and the Iconoscope tube (below) will replace one we had on display in the TV section. The original was only on loan to us and was recently returned to the owner.

Close relationships with other museums and clubs are always beneficial to our mutual interests as well as visits between museums, especially the NEM. One always picks up good ideas on displays as well as museum operation and management procedures.



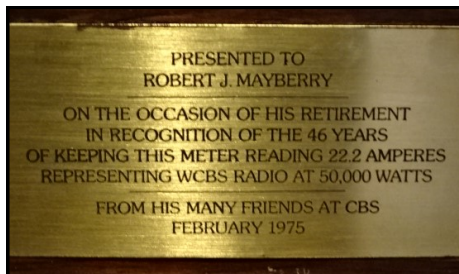
A BLACKOUT ARTIFACT

By
Dave Sica

While attending a recent Friday meeting of HARPS (Hudson Valley Antique Radio and Phono Society), I was intrigued by a story told by member Gary Berg concerning an artifact in his collection. What made the story that more interesting was the connection between the item and the person and history associated with it.

Gary has a few large, ornate vintage electric meters in his collection and said that every once in a while, something unique catches his eye. The one he talked about at the meeting was mounted on a plaque with a brass nameplate affixed to it. The plaque read as follows:

"Presented to Robert J. Mayberry. On the occasion of his retirement in recognition of the 46 years of keeping this meter reading 22.2 amperes representing WCBS radio at 50,000 watts. From his many friends at CBS. February 1975."



Following a little research, Gary discovered that Robert Mayberry was the engineer in charge of keeping WCBS radio "on the air" during the Great Blackout of 1965. Most NJARC members were probably old enough at the time to remember this little piece of his-

tory, but perhaps the effect on radio broadcasting was not that obvious. Now that we've grown up and are interested in all things "radio," here's a little background.

The Northeast blackout of November 9th, 1965 was a significant disruption in the supply of electricity affecting parts of Ontario in Canada, Connecticut, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, Pennsylvania and Vermont. Over 30 million people and 80,000 square miles were left without electricity for up to 13 hours.

The cause of the failure was human error that happened days before the blackout. Maintenance personnel incorrectly set a protective relay on one of the transmission lines between the Niagara generating station in Queenston, Ontario. The safety relay, which was set to trip if current exceeded the capacity of the transmission line, was set too low.

After a small surge of power originating in Lewiston New York caused the Ontario line to trip, a series of concurrent overloads eventually placed the Northeast power distribution system in chaos. The effects of overloads and the subsequent loss of generation capacity cascaded through the network, breaking the grid into "islands."

In a December 1965 *Broadcast Engineering* article by George C. Sitts, the author related how the Great Blackout affected radio stations in the New York area. Sitts noted that radio stations in the affected area either made or lost their reputations as reliable news sources in a crisis. Although it was a difficult test, Sitts said that "those stations that passed did so because their engineers were prepared... Within the hour, most of the stations that were going to make it at all were in operation."

For WCBS, transmitter engineer Robert Mayberry, was one of those who helped the station pass the test. He was on his way home when he saw the lights go out, realized the problem, and immediately returned to the WCBS transmitter.

Mayberry was aided by the fact that WCBS was a prime example of preparedness. With studios on the 16th floor of a new building and a remotely controlled transmitter, the station had auxiliary diesel generators with automatic switchover to produce operating power for two studios, control rooms, input equipment, newsroom and some lights. In addition, there was a second generator to power elevators. The transmitter was equipped with a diesel generator to switch over automatically and operate the auxiliary 10-kw transmitter. In addition, WCBS had re-

cently installed a 175-kw generator capable of operating the 50-kw main transmitter - but without automatic operation. As power lines died, the auxiliary generators kicked on at the studio, and the 10-kw rig came on at the transmitter site. The engineers checked the STL (Studio to Transmitter Link) phone line, found it okay and turned the operation over to the programming people.

Chief Engineer Robert Mayberry kept the station on auxiliary power until 6:15 the following evening, long after power had been restored, to ease the starting load on the Consolidated Edison system. The story of the Great Blackout and the relationship to Gary Berg's presentation meter to Mayberry is simple...relatively smooth emergency measures, careful planning and quick action by a handful of engineers kept the airwaves alive and glowing on an otherwise dark night.

Epilogue

What are your memories of the Northeast blackout of 1965? It has since made its appearance in many areas of popular culture including literature, film, music, television, theatre, urban legends, etc. Here are just a few examples:

- A thriving urban legend arose in the wake of the blackout claiming that a peak in the birthrate of the blacked-out areas of NYC was observed nine months after the incident. The story was debunked in 1970.
- When no cause for the blackout was immediately apparent, several writers postulated that the blackout was caused by UFOs.
- Many TV shows contained a "blackout" theme. In *Bewitched* (November 10, 1966), the blackout is caused when Aunt Clara casts a carelessly-worded spell while trying to move a piano.
- In Ira Levin's horror novel *Rosemary's Baby*, Rosemary and her friend discuss the blackout when he visits her.
- The night of the blackout was said to be the lowest amount of crime reported on any night in NYC's history since records were first kept.
- WABC disc jockey Dan Ingram, during a segment of his afternoon drive time show, noted that a record that he was playing ("Everyone's Gone to the Moon") sounded slow as did subsequent jingles. Ingram quipped that the record "was in the key of R." The station's playback equipment used motors that got their speed from the frequency of the powerline which slowed from 56 to 51 Hz.

INTERSTATE ELECTRONICS REVISITED

By
Richard Lee

This past Fall, I had a chance to visit an old friend in Hazlet. While travelling East on Rt. 36, I noticed a shopping center called "Airport Plaza" which brought back some old memories from our days of swap meets at the Hazlet firehouse annex. Following one of those meets, former NJARC president Phil Vourtsis asked some of us to join him for lunch at a Perkins Family Restaurant located in the Plaza. After eating, he suggested that we stop in at an electronics parts store called Interstate Electronics Inc., or I.E.I. for short, that was located in the same Plaza.

Back then, I was amazed to see a store where you could walk in and buy capacitors, resistors, transistors, inductors, etc. without going to a Radio Shack. So here I am at the Airport Plaza once again and there, tucked in the vertex and still open is I.E.I. I had to stop in for a visit!



Disappointment set in upon first entry. Shelf after shelf of 1990's DVDs for sale...yikes! Then, a glass cabinet full of new and retro style CB radios. They were vaguely interesting though I do admit running a vintage Cobra base station on the back of my workbench. The next aisle was full of CB antennas and car radio amplifier systems and a "listening room." A short walk across the floor and you entered a video room with big screen TV's and even bigger prices.

So I asked "where did all the parts go?" "Way in the back," a very young salesperson responded and pointed me in

that direction. To my pleasant surprise, I stumbled down aisles full of Xcelite and Klein hand tools. To my unpleasant surprise, comingled were an assortment of "Dollar Store" Trisonic tools but not at Dollar Store prices.

Working my way deeper into the back of the store, parts started to appear in neat rows of blister packs...NTE resistors, capacitors, simple build kits, LED's, switches, inductors, shrink tubing and rubber belts. Viewing a sales promotion board of BNC products, I asked for a panel connector. The salesperson said the only one he had was the one on the display board. But, he would be happy to remove it and sell it to me. No more BNC inventory would be ordered.



A "parts jobber" overheard our conversation and offered me a "look" in the storeroom in the back of the store. He noticed my NJARC sweatshirt and lamented "nobody builds anymore." The storeroom was full of unattended dusty metal bins full of high value, high voltage electrolytic capacitors. Probably past their prime but I bought some anyway.

It was nice to revisit I.E.I, especially with their extensive collection of name-brand tools. Although I was happy to see that the store still exists, it was sad to see another concrete example of what we often find in our hobby - that nothing has stayed the same.

DX CONTEST FEEDBACK

By
Marv Beeferman

Richard Phoenix

I've been DXing with various receivers for years. Right now, I've been experimenting with on-line software defined web radio using receivers in the UK and the Netherlands. It's very interesting to tune an overseas receiver through the local medium-wave band without the requisite need for a plane ticket.

My fave terrestrial radio was a Silvertone 4763 which succumbed to a house fire in 1997. Both I and some "proper" broadcast engineers had a go at rebuilding it, and the results had been excellent. It belonged to my Godparents who were its sole owners before me. For years, it served as an excellent off-air monitor for my Part 15 "WNJ" in my folks' basement. Once I finally put a proper 80' longwire on it (switchable between it and the Part 15 transmitter), it turned into a transatlantic medium-wave DX machine, which, with its excellent selectivity, allowed me to pull out several MW European broadcasters with their 9 KHz-separated super-powered stations.

Amongst the countries I received on my Silvertone via medium-wave were Andorra and Germany - Langenberg to be precise - back when it was Western Germany. Of course, the radio was also more than capable of bringing in KFI, Los Angeles on 640 KHz and KSL, Salt Lake City on 1160 KHz before the FCC broke down the clears and unwanted nearer signals came flooding in.

The Silvertone 4763 was a 3-band TRF - coverage ran on band 1 from 540-1800 KHz; band 2 from 1800 - 6,200 KHz and band 3 from 6,100 to 18,000 KHz. Its major shortwave achievement back in the day was receiving Radio Luxembourg on 6,090 KHz despite a border-blasting Canadian in Sackville relaying the Voice of Germany on 6,095 KHz. Impressive selectivity for that vintage TRF radio.

NJARC member Charles Blanding and I continue to restore a replacement 4763 that I bought on e-bay, and it has good potential.



Typical six tube 1938 Silvertone 4763. It was sold as part of the "Sears Golden Jubilee" which offered a series of radios with different sized gold dials and styles. Richard described it as a TRF set but, unless I'm mistaken, it was actually a superhet with a 6A8G, 6K7G, 6B6, 6V6, 6U5 and 6X5G tube complement...Ed

Ed Suhaka

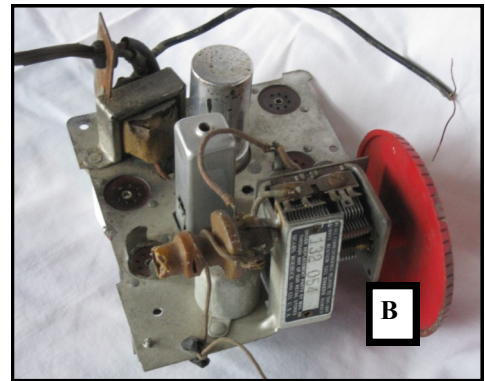
A couple of months ago, Joe Devonshire started an NJARC reflector discussion regarding a 1950's, four tube Philco that he purchased. He commented, "This was made for local station use at best. I'll be curious to see what I can hear with it tonight." I was also curious and this made me recall something I had in my junk box.

Some time ago, at one of our swap meets, member John Ruccolo had a box of odds and ends for sale. One of the items was a sad looking chassis from a four tube radio. There was no cabinet, tubes, speaker, antenna, nor volume control knob; just the chassis. I thought it might be good for parts - a tuning capacitor, oscillator coil, i.f. transformer, etc. At least the tuning knob was there and a power cord was still attached. John asked fifty cents so why not?

There was a tag attached to the chassis identifying it as a 1954 Sears Silvertone model 3002. The Internet provided a schematic and other information. The appropriate tubes were plugged in their sockets and a speaker and length of antenna wire were attached. (Apparently, the radio never had an internal antenna as the schematic indicates something called an "antenna hank."). Surprisingly, the junk chassis came to life and even the filter capacitor did its job with no appreciable hum.

Certainly not a great radio but an inexpensive consumer item barely good enough to bring in the news and weather and perhaps a little early Elvis. And perhaps good enough for an NJARC DX contest and a little fun? The chassis was attached to a piece of scrap wood with a few home-brewed brackets, a speaker was added and a random length of wire was attached as an antenna.

Well, the old junker worked well enough to bring in a couple of Chicago stations and a few Canadians. Perhaps the best catches were KMOX and KXEL. The radio is no DX performer but if conditions let a station come in strong enough, it will receive it. But if strong stations are too close together, lack of sensitivity will deny them.



A - Ed's Silvertone if it actually had a case. B - Junkbox DX

Jerry Dowgin

Jerry reports that he will be using his Model 128 RCA radio that he won at the Holiday Party for his DX contest entry. Jerry should have some real success with his choice because the 128 was one of a group of luxury models for the 1934/35 season that debuted RCA's "magic eye."



**LUDWELL SIBLEY:
A TRUE NJARC
"HONORARY"
MEMBER**

By
Marv Beeferman

Honorary member Ludwell Sibley was instrumental in the founding and ultimate success of the NJARC. His contributions to introducing the club to the collector community in its early years, establishing a sound financial footing by organizing some important auctions, establishing

and maintaining our tube program and generally providing a source of information and support for all things "radio" to an appreciative membership will be well-remembered by some of our older members. Presently, Ludwell is still very active in the radio community from his home in Ashland, OR, where he is president of The Tube Collectors Association and is the publisher of its *Tube Collector* bulletin.

Last year, Ludwell nominated the NJARC Radio Technology Museum for the AWA's (Antique Wireless Association) prestigious Houck-Preservation Award. The award is for "a member who, through personal accomplishment, has acquired, and preserved by documenting, an outstanding collection of radio artifacts." Although the definition includes the word "member," historically, the word has encompassed certain "non-member organization" recipients such as the Museum of Radio & Technology, the Perham Museum and CHRS (California Historical Radio Society). Interestingly enough, the RTM was denied the reward "because it wasn't an AWA member."

Ludwell says that he has contacted the AWA and has provided "some focused commentary on the AWA awards program" with recommendations for modernization including the recognition of historical work done on Web sites, submission of nominations by email, etc. Meanwhile, he has resubmitted the RTM's nomination for 2017 with an explicit request for waiver of the requirement of AWA membership. Ludwell's nomination comments include some very complimentary remarks that all NJARC members should be proud of:

"The preservation activity that calls for a Houck Award is NJARC's establishment of a museum with vintage restored wireless gear, home radios, communications equipment, important tubes, and radio-programming mementoes. The NJARC space includes the National Broadcaster's Hall of Fame, which had previously lacked a permanent home. NJARC has carried out extensive restoration of its building space."

"Honoring the role of the site in radio history, NJARC has developed a suite of military radar equipment ranging in vintage from early in WW II to modern times, and extending in size from personnel-detection systems to a massive AN/TPS-1D air-search set. Plans are underway to put this gear on public display."

In another area, Ludwell continues to

generously support radio collectors throughout the country. He has just announced an updated suite of indexes to antique-electronics publications available on the Tube Collector Association (TCA) Web site (www.tubecollectors.org - click on "Archives"). They are posted in both DOC and PDF formats. Individual items in the set cover:

- All TCA publications.

- All issues of *Vacuum Tube Valley*
- All issues of the *Antique Radio Club of America Gazette*
- All AWA (Antique Wireless Association) publications.
- The Dowd-RCA Tube Archive

Thanks Lud for a great resource! As he says: "You can have a pile of literature or, with an index, you can have research."

Final Treasurer Report for NJARC Finances January - December 2016

On Hand – 1/1/2016		\$15,468.40
Auction Sales (net)	6007.70	
Member Dues	4425.30	
Swap Meets (net)	2173.24	
50/50	427.00	
Net Gains		\$13,033.24
Holiday Party (net)	(2056.83)	
Museum	(1806.52)	
Insurance	(1235.00)	
Part & Clothing Sales (net)	(899.09)	
Broadcaster	(890.27)	
Meetings	(763.50)	
Miscellaneous (net)	(682.71)	
Repair Clinics	(596.56)	
Net Losses		(\$8,930.48)
On Hand – 12/31/2016		\$19,571.16

Harry Klancer
Treasurer, NJARC
January 13, 2017

Thanks Harry for doing a great job in looking after and maintaining the club's finances.



New Jersey Antique Radio Club's

Spring Swap Meet

Parsippany PAL Building

33 Baldwin Road

Parsippany, NJ 07054

Just off Route 46,

Adjacent to Smith Field



Saturday March 18th, 2017

Refreshments Available



(70) 8 Foot Tables

\$25.00 for members

\$30.00 for non-members

Reserve Additional Tables \$20.00

At the Door \$25.00

Open to the Public

8am to 12 noon

Vendor setup at 7:15 AM

\$5.00 ENTRANCE FEE

CLUB DONATION

For Directions

Visit our website: www.njarc.org

or Mapquest

33 Baldwin Rd Parsippany NJ 07054

Vendors Make Your Reservations Now!

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