



W2NPT

The Resonator

Official Newsletter of The Fair Lawn (NJ) Amateur Radio Club

Volume 3, Number 12

www.FairLawnARC.org

December 2018

From The President:

To FLARC members,

We had a great auction this year! Thank you to all who helped make our annual auction such a success. Please contact a member of the Council if you have suggestions on improving the auction.

It was great to see you all at the December meeting and hope that everyone enjoyed the night. We will be showing the antenna project video again in case you missed it the first time.

Please remember to reach out to Al WA2OWL and Judith KC2LTM to renew your membership for 2019.

Brad KM2C
FLARC President

Brad
KM2C – FLARC President

Editor's note: Please use the renewal form along with your dues payment - it can be downloaded and printed from <http://membership.FairLawnARC.org>

Member Profile

NAME: **Tom McCabe** CALL **N2AXX**

*What do you do/what did you do for a living?
What types of work have you done?*

My entire career has been electronics/telecommunications centric. I have worked in a mix of industry sectors: television and radio broadcasting, research & development of the world's digital mobile radiotelephone systems, including their design, implementation, and operation.

The last few years I have been heavily involved with public safety, in-building distributed antenna systems and business development. I recently joined a manufacturer of RF fixtures and test & measurement equipment used in aerospace, satellite, public safety, and mission-critical communications. It was very interesting and a lot of fun to be on cellular's path of innovation. A little-known fact is that AT&T did not operate a cellular telephone network until 1994 by acquiring McCaw Cellular. At divestiture, AT&T relinquished their cellular licenses to the regional Bell operating companies (NYNEX, Bell Atlantic, etc.). Why? Two highly regarded consulting firms retained by AT&T forecasted that there would only be ~1,000,000 mobile telephone customers at best by the year 2000! In fact, there were roughly 109,000,000 in 2000.

How did you get interested in ham radio?

My father was a broadcast engineer and a ham since the 1940s. He served at Naval Air Station Lakehurst as a radioman in the airship squadrons. My dad always had interesting stories, or a project going on between his work and ham radio. At a young age, I was building crystal sets, RadioShack and Heathkit radios, clocks, weather stations, and enjoying a 65-In-One electronics breadboarding set. Eventually, my father taught me the art of tuning around with his old National NC-125 HF receiver listening to Radio Netherlands, Radio Moscow, BBC, Deutsche Welle, numbers stations, WCC radio marine and WRNO "the Rock of the World." I frequently typed up and mailed signal reports and weeks later would receive QSL cards, exotic stamps, flags, and stickers.

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The Club

Fair Lawn ARC is the fastest growing ham club around, with five operating positions in a permanent clubhouse. Visitors and guests are always welcome. The club is open every Friday night from NLT 6:30 PM. Business meetings are the first Friday of the month at 7:30PM.

2018 Officers, Committees and Assignments

President	Brad Kerber	KM2C
Vice President	Lowell Van't Slot	W2DLT
Treasurer	Al Rasmussen	WA2OWL
Secretary	Randy Smith	WU2S
Trustee	J Cooper	W2JC
Trustee	Skip Barker	KD2BRV
Trustee	Don Cassarini	N2PRT

Field Day	Steve Wraga	WA2BYX
Member Services	Judith Shaw	KC2LTM
Publicity	Ed Efchak	WX2R
Publicity	Gene Ottenheimer	WO2W
Publicity	Susan Frank	W6SKT

Program	Lowell Vant Slot	W2DLT
Publicity	Karl Frank	W2KBF
Publicity	Brad Kerber (<i>ex officio</i>)	KM2C
Social Media	Dave Marotti	NK2Q
Video/YouTube	Thom Guida	W2NZ
VE Liaison	Gene Ottenheimer	WO2W
VE Liaison	Pete Senesi	KD2BMX
Education	Gordon Beattie	W2TTT
Education	Randy Smith	WU2S
Education	John L. Howard	KD2NRS
Education	Fred Wawra	W2ABE
History	Fred Belghaus	W2AAB
Health and Welfare	Judith Shaw	KC2LTM
Photographer	Don Cassarini	N2PRT
W2NPT Trustee	Paul Cornett	W2IP
Technical	Paul Cornett	W2IP
Technical	Randy Smith	WU2S
Technical	Fred Wawra	W2ABE
RACES Director	Dave Gotlib	KD2MOB
RACES Liaison	Steve Wraga	WA2BYX

Newsletter Editor Ed Efchak WX2R

FL Town Liaison Gene Ottenheimer WO2W

Net Scheduler Brian Cirulnick KD2KLN

Fair Lawn RACES Corner



Seasons' Greetings to all,

Before I go into the details about FL-RACES events, on behalf of the FL-RACES I would like to wish everyone Happy Holidays and a Happy New Year.

There's lots of happenings at The Fair Lawn Radio Amateur Civil Emergency Service (FL-RACES) these days and this is because of the volunteers like you who make this organization what it is today. Here is a brief summary of our happenings:

On Thursday, December 6th, several members of FL-RACES provided an outstanding presentation to FL-CERT (Community Emergency Response Team). Our amateur radio presentation was fascinating and everyone learned something new! Our presentation gave FL-CERT members insight to our group and we may have interest in future members. I would like to thank Nancy Brouca, Director of Fair Lawn CERT for having us provide a presentation to FL-CERT. Furthermore, I would like to thank the FL-RACES membership for an outstanding presentation! We can possibly bring this presentation on the road to other groups within Bergen County if they are interested.

On Wednesday, January 9th and Wednesday, January 23rd, we will be hosting as the net control operator for the BC-RACES Nets. We have participated in the BC-RACES Nets for several months. However we will be hosting for the first time in January! It looks like we are ready!

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MASTER EVENT CALENDAR

December 7, 2018	FLARC Holiday Party and 2018 Annual Meeting & Election of 2019 officers
December 14, 2018	"The ARRL Field Organization" by Rob Roschewsk KA2PBT ARRL NNJ SM NEW DATE!
	<u>Upcoming 2019 Activities</u>
January 18, 2019	Stanley Eikert K3KKH "A Wireless Three-way Antenna Switch and Display"
January 26-27, 2019	Winter Field Day (Tentative)
February 15, 2019	Report on the 2019 FLARC Member Survey
March 15, 2019	RSGB Propagation Workshop or TBD
April 2019	"Earth Day At Great Falls National Historical Park" TBD
May 2019	Garretson Forge and Farm 300th Anniversary Special Event TBD
August 2019	FLARC Vintage Night II
TBD	"Bring Your Own Boat Anchor" -- An evening of storytelling and demonstrations
TBA	W1TP Enigma Presentation w/Fair Lawn Public Library



Hidetsugu Yagi's 130th Birthday Google Doodle

Follow FLARC ON THE WEB

Facebook: <http://facebook.FairLawnARC.org>

Twitter: @FairLawnARC

Blog: <http://blog.FairLawnARC.org>

Youtube: <http://youtube.FairLawnARC.org>

Website: <http://FairLawnARC.org>

FLARC VEC Exams

Our next test sessions are scheduled for **Saturday, January 12th** beginning at 09:30 at the Community Center. No advanced registration is required but always appreciated. The fee is \$15.00 (cash or check).

Please bring positive identification (license, passport, etc.), your original license and a copy, original CSCE and a copy (if credit is needed).

The full exam schedule is on the club calendar at the FairLawnARC.org website. For further information contact VE-Liason@FairLawnARC.org.

Please refer also to the "License Exams" link on the main website--

<http://testing.FairLawnARC.org>

We appreciate your support of the Fair Lawn Amateur Radio Club!

This is your Club! Be part of it!

Member Profile (Continued)

I had a Hallicrafters S-95 VHF receiver too and monitored police dispatch, NY Marine Operator, and AT&T's NY Tel, VHF-MTS (mobile telephone service). Dad let me casually use a Polytronics four channel, crystal controlled, vacuum tube CB radio with a ¼ wave whip working against our home's aluminum siding as a counterpoise. Truckers operated on Channel 10 during the 1970s CB boom and in time moved to Channel 19 to alleviate the adjacent channel interference to Emergency Channel 9. My father didn't push me. He knew I was hooked and let me go at my own pace amidst school, sports, collecting baseball cards, and just being a kid.

Summer 1978 we walked out of Heathkit's Fairlawn store with the Novice theory and Morse code audio cassette tape course. During Thanksgiving vacation 1978, at age 15, I passed my Novice at the dining room table of Hank Treger, W2AMS, SK, in Scotch Plains, NJ. There was no turning back! Technician, General, Advanced, and Extra Class exams were all administered by the FCC at 201 Varick Street in NYC.

My dad was Advanced for many, many years. New Year's Eve 1980, my father and I passed our Extra Class theory and code tests together. As always, he took me for a celebratory lunch at Chock full o' Nuts. I vaguely remember visiting the holdouts of Radio Row in NYC as a child. Electronics stores like Harvey, Lafayette, Harrison, Barry, Gregory, Route Electronics, Heathkit, and RadioShack were always fun as I grew into the hobby. I rarely left without a magazine or flyer.

What parts of the hobby most interest you?

The friendships through ham radio have been very important to me. DXing will always light a fire in my belly! I am old school and primarily operate SSB and CW, 160 through 10 meters. Since my youngest son Ben was licensed this summer, D-STAR and DMR have proved to be very interesting and a lot of fun.

Operating from a vacation spot in Maine or the Outer Banks with 100 Watts and some wire can be a lot of fun. HF and VHF contesting, RTTY with a Commodore VIC-20, OSCAR-13, and PC based Win95 SSTV have all been interesting over the years.

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DATE CHANGE FOR FLARC DECEMBER SPEAKER SERIES

December 14, 2019
Fair Lawn Senior Center
Rob Roschewsk KA2PBT
ARRL NNJ Section Manager
"The ARRL NNJ Field Organization"

Get Direct With FLARC!

Here is a direct link to specific club info: just a click away!

<http://apparel.FairLawnARC.org>
<http://auction.FairLawnARC.org>
<http://blog.FairLawnARC.org>
<http://calendar.FairLawnARC.org>
<http://events.FairLawnARC.org>
<http://exams.FairLawnARC.org>
<http://facebook.FairLawnARC.org>
<http://testing.FairLawnARC.org>
<http://news.FairLawnARC.org>
<http://swap.FairLawnARC.org>
<http://tech.FairLawnARC.org>
<http://youtube.FairLawnARC.org>

NEW !

<https://groups.io/g/FairLawnARC>



November 2018 Blog Traffic

November was flat to 2017 in page views with an increase in visitors... maybe the algorithms have changed or the bots have gone south for the Winter. Here is the data:

	November 2018	November 2017	Change
Views	937	939	NC
Visitors	525	428	+23%
Posts	13	5	+160%

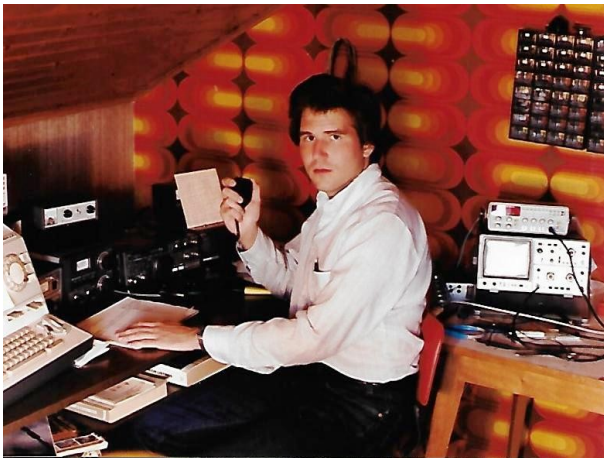
And we continue to grow!! There is new content nearly every day so it's really worth the look to both FairLawnARC.org and the blog.

<http://blog.FairLawnARC.org>

Member Profile (Continued)

*What does belonging to FLARC mean to you?
How do you/can you better contribute to the club?*

FLARC is a special place for me. My youngest son Ben at 14 passed his Technician Class license through your VE program. Ben applied and was granted W2AMP, his late grandfather's call. A third-generation Ham! I always look forward to The Resonator, an amazing publication, and team effort. The guest speaker program is outstanding! I am Near n' Far Net Control Op as time permits and I enjoy that. Hanging at the meetings and exchanging ideas has helped Ben and I (and others) get involved with D-STAR and DMR.



DL/N2AXX 1986

What should be the club's priorities in the next year?

Tough question! A priority for a lot of hams is to remember that this is a hobby! Be receptive. Get people that are interested licensed. Get the licensed hams on the air and active. The matrix of member interests is a great idea to keep things interesting and fresh. I am puzzled by the lack of youth. Especially with the STEAM movement (science, technology, engineering, art, mathematics).

STEM or STEAM is complemented by schools and libraries funding Maker Spaces and getting behind 3D printers, Arduino, Raspberry Pi, wood turning, pen making and so on... no ham radio. There was one RTL SDR dongle and SDR# class at a MakerSpace that I remember. People seem averse to radio and say "... I can do all that and more on my smartphone..." "... I have WiFi..." Kids especially say "why would I want to study, take a test, and all that. I have enough tests at school."

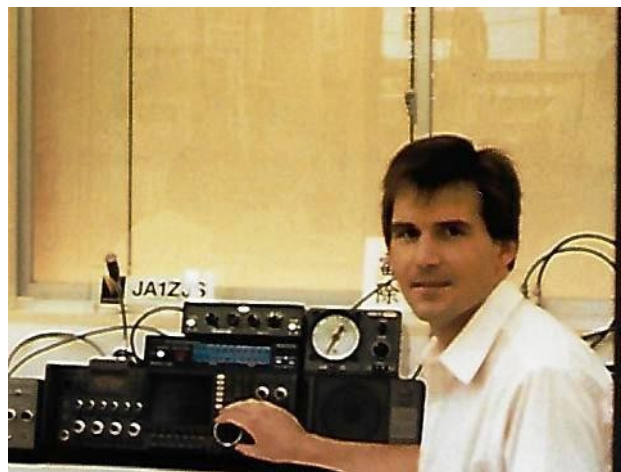
Member Profile (Continued)

*What else can you tell the club about yourself
and/or ham radio?*

I am very fortunate to have a tight family and to be interested in all that my wife and three children do. DXing and the world really came alive for me by beginning to travel outside of the US in the 1980s. That experience was captured through another passion -- photography. Through reciprocal licensing, I operated over the summer of 1986 as DL / N2AXX and in 1989 as JA / N2AXX. I am fortunate to have visited over 30 countries between my career and pleasure. I am fascinated by international trade and geopolitical affairs. Would love to participate in a DXpedition one day. I love books, magazines, browsing news, and Internet content, 3D printing, gardening, and a variety of projects.

*What other ham related clubs or organizations
do you belong to?*

FLARC is the only club I participate in at the moment. The 80s and 90s I was very active with Chestnut Ridge and the Broadcast Employees Amateur Radio Society. I am a member of ARRL, RSGB, Radio Club of America, and IEEE. I participated in AMSAT in the early 90s during the OSCAR-13 days. I participate with Bergen County RACES and Ramsey's OEM.



JA/N2AXX 1989

Please Note: Operating at W2NPT

Starting in January band captains will have sign-in sheets for all operating positions. No longer first come-first served -- in fairness to all who want to use the club equipment. More details to follow.

Rob Roschewsk KA2PBT Highlights FLARC December 14 Speaker Program

ARRL NNJ Section Manager Rob Roschewsk KA2PBT will be our featured speaker on December 14th to close the third consecutive year of monthly FLARC programs.

Rob will discuss the NNJ Field Organization and what it means to ARRL members. Rob has aggressively sought to fill every position on the section roster; a major achievement. Rob looks to have many of his appointees in attendance as well, to highlight their duties and answer questions.

The program will be held on Friday, December 14th beginning at 7PM at the Fair Lawn Senior Center, 11-05 Gardiner Road in Fair Lawn.

Please note that this is the second Friday in December -- not the third -- a change because of the holiday season.

Rob has been an ham since 1982 and is an active member of [The 721st Mechanized Contest Battalion](#) operating under the call [WC2FD](#).

Based in the farmlands of Warren County, New Jersey, **the 721st** is a bunch of young adults (and a few old ones) that set up in public places during contests.

So see you on December 14th to close out another year of the FLARC monthly speaker series!



Rob KA2PBT

Club Apparel Is Here!!

Club apparel is always in vogue. Red is always in and your club friends all have them... you *want* a shirt or jacket for the next FLARC event!

Don't forget.... they're easy to order.

Go to www.hamthreads.com or visit <http://apparel.FairLawnARC.org> to check out the **item selection that is posted on the FLARC website (with pictures and prices)**. Order the shirts or other items you want with either the regular FLARC logo or the still-cool 60th anniversary logo.

Note:

RED is the primary and preferred club brand standard shirt color.



Mr. S Claus -- Even he wears red.

Congratulations!

Pete (KD2BMX) reports the results of the November 10, 2018 FLARC VEC Amateur Radio Exam Sessions:

Total Number of Candidates served: 1

Congrats Alexandre!!

Name	Call	License Earned
Alexandre Romanovski	KD2QQH	General



Dues Are Due

Get a jump on the calendar and send in your 2019 dues. Renewals are \$25 and are the best value in amateur radio clubs around. Don't forget to include an application which can be found on the website.

<http://membership.FairLawnARC.org>

2019 Officers and Trustees

President : Brad KM2C
Vice President: Van W2DLT
Secretary: Randy WU2S
Treasurer: AI WA2OWL

BEQUEATHS AND DONATIONS

Planned gifts usually imply the family donation of amateur equipment to the club when someone has become a Silent Key. But it can be more. Club members might consider making a gift through a will or trust; gifts that help provide lifetime income to the club. Consult with your lawyer, estate planner or tax advisor if you feel such a gift is worthy.

About The Club

The Resonator is published monthly and is the official (and only) newsletter of The Fair Lawn Amateur Radio Club. FLARC was established in 1956 and has met continuously since inception.

The club meets every Friday at 7PM at the club station in The Fair Lawn Community Center, 10-10 20th Street, Fair Lawn, NJ. Business meetings are the first Friday of the month at 7:30 PM.

Visitors **ARE ALWAYS** welcome at our meetings.

FLARC operates the W2NPT repeater (145.470- PL 167.9) located high atop the Community Center. The analog repeater is open to all amateurs for use without restrictions.

The club has approximately 125 paid members. Dues are currently \$25 per year/\$20 for new members.

For more information, please see our website, at <http://membership.FairLawnARC.org>

Ham Lite by Brian (KD2KLN)



NEW! A new gathering place for club members has been set up on the Groups.io service ... Why another group? It has more features than our current WordPress 'blog' and allows members to select what and how they receive emails. This group might eventually replace our current blog. If you haven't signed up yet, check it out and sign up!

<https://groups.io/g/FairLawnARC>

Interested in Chasing DX?

A casual group of FLARCers including Van W2DLT, John KD2NRS, Brad KM2C, Karl W2KBF, Nomar NP4H, Steve WI2W, Larry WA2ALY, Fred W2AAB, and Jim W2JC have formed an email group to keep each other in touch in (real) time of when the rare or interesting ones show up to chase. Interested? See or contact Van W2DLT or Jim W2JC.



**FAIR LAWN'S
MINISTRY OF TECHNOLOGY!**
With New Antennas On The Roof!



Past FLARC Member Profiles

Here is a list of past member features and we welcome your recommendations for new profiles -- including your own.

Month	Name	Call Sign
January 2016	Pete	KB2BMX
February	Marco	KC2ZMA
March	Ron	KC2TBD
April	Kai	K2TRW
May	Larry	WA2ALY
June	Dave	N8MAR
July	Steve	WI2W
August	Thom	W2NZ
September	Brian	KD2KLN
October	Brad	KM2C
November	Al	WA2OWL
December	George	W3EH
January 2017	Fred	W2ABE
February	Dave	KD2MOB
March	Randy	WU2S
April	Lee	KD2DRS
May	Gene	WO2W
June	Carol	KD2NMV
July	Kevin	KC2KCC
August	Robert	KD2NOG
September	Robert	KD2BKD
October	John	KD2NRS
November	Fred	W2AAB
December	Margaret	W2GB
January 2018	Brian	KD2OAZ
February	Bennett	KO2OK
March	Van	W2DLT
April	Aly	ALØY
May	Bruce	NJ2BK
June	Dave	N2AAM
July	Karl and Susan	W2KBF and W2SKT
August	Steve	KA2YRA
September	Paul	K2PJC
October	Skip	KD2BRV
November	Jim	W2JC
December	Tom	N2AAX

By the way, Randy (WU2S) has compiled a binder of all back issues of *The Resonator* and it's located in the club office. Thanks Randy!!!

Back issues are also available on our website.

<http://newsletters.fairlawnarc.org>

Theoretics Demystified

First a few short subjects. Most things are negative ground but in the early history of an old intercom company, all of their equipment was set at positive ground to help prevent electrolysis, as a lot of their equipment was seagoing. (Ships are actually sailing in an electrolyte). Zinc is used as a sacrificial anode because it is designed to corrode before the steel of the hull.

With the hull as one electrode, the seawater being the electrolyte, and the zinc as the anode and both being connected through the hull structure, they together act as a shorted battery with the zinc deteriorating in place of the steel hull.

There was someone who put a metal mesh in the seawater and also plate with an electrical potential induced between the two and thereby created structures with the minerals from the seawater which were plated out on the mesh thusly creating a structure with the minerals from the seawater. This method was used to create a jetti and other structures making use of the normally destructive electrolysis factor.

A point to remember, electrons flow from negative to positive, (the opposite of current convention)! Perhaps there was a negative potential sacrificial metal involved. The metals with higher reduction potentials are used as the cathode. (Look up electro chemical series, and also sacrificial and or galvanic anode in Wikipedia).

The last thing is the story of the ground ring used in some audio equipment. A ground ring was used and the exact placement of the input circuit ground wire and the output circuit ground wires were critical or there was resultant hum and distortion. I found this out by experience during an equipment repair where moving one of the ground wires to another spot on the 'ground ring' caused hum in the audio output, very interesting!

DE Fred W2ABE

CW Classes Update

Fred W2AAB and George W3EH have the current CW class well underway. Fred W2AAB notes that at the upcoming January meeting he intends to make a formal announcement regarding the classes, and suggesting a change in the usual schedule for them.

Brad KM2C earlier noted that perhaps the classes should be held on an alternative day, to build consistency and further interest. In the meantime, if you're interested in joining in or signing up for a class, see George and/or Fred on any club night.

The Near and Far Net

Now in its second year, the *FLARC Near and Far net* is chugging along each week. Here is list of our check-ins beginning on New Year's Night in no particular order. Mondays at 8PM on the repeater. **A TOTAL OF 77 CHECK-IN'S DURING 2018! THANKS TO ALL!!**

Name	Call
Gene	WO2W
Van	W2DLT
Thom	W2NZ
Steve	KA2YRA
Ed	WX2R
Fred	W2AAB
Karl	W2KBF
Brian	KD2KLN
Dave	NK2Q
Ron	KC2TBD
Dave	KD2MOB
Jim	W2JC
Mike	KC2ZX
Steve	WA2BYX
Robert	KB2BKD
Susan	W6SKT
Steve	WI2W
Brad	KM2C
John	KD2NRS
Art	WA2KXE
Brian	KD2OAZ
Brian	W2EMC
John	KD2NRS
Randy	WU2S
Jon	KD2PDS
<i>More Elsewhere in The Resonator!!</i>	

December 2018 Net Controls

Thanks to Dave N2AAM for handling net control on November 5th!! Great job!

Remember the W2NPT FLARC repeater is at 145.470 (-) with a PL tone of 167.9. The net starts promptly at 2000 local time. Everyone is welcome.

Date	Net Control
December	KD2MOB
December 10	WX2R
December 17	KD2KLN
December 24	No Net
December 31	No Net

Ed-itorial --

FLARC 2018: A Tough Act To Follow

It's December 2018 and the end of a great year for FLARC. A quick review includes a record membership (which may make this club the largest in New Jersey at 150 members), a continuous three year monthly speaker program, a vibrant Monday net, public service, field trips, community and industry outreach and high member participation rates from workbench projects to code classes to contesting .

And new antennas. Indeed. A revamp of the roof with a difference users have noted from the first day of operation.

These are all the signs of a vibrant, healthy club. As many of you know, I'm the PIC (Public Information Contact) for the ARRL in NNJ and that assignment gets me around to a lot of local clubs. One of my take-aways after a year on the road is that ours is a club that has both an enthusiasm and a camaraderie that is rather unique in the section. Chalk it up to a clubhouse. Or the opportunity to get together every week. Maybe we just like each other. That, plus the accomplishments of 2018, is a very powerful mix to build upon.

But there are many activities which other clubs do in either better or in different ways than we do. Some clubs are far better at outreach to groups such as scouts and other youth groups. Others do a better job of parlaying digital applications into their mix than we do. The challenges for 2019 will be to retain our member base, provide additional capacity to accommodate all of our new and current members (hint: open more often than just Friday), and keep the club moving with the changes in ham radio (hint 2: looking less like 1989 and more like 2019 in interests and activities).

In the end, all clubs are tribes. And clubs do not last forever. Nor does momentum. The time to keep moving forward is *now*.

The New Year approaches. The new officers are the old officers. That should not make them complacent in their duties, nor should you be in your responsibility as a member.

This club now has the reputation of being one of the leading clubs in New Jersey. We should all be exceedingly proud of what our "little town club" has accomplished.

Surely it has been well earned.

Happy Holidays.

Ed
WX2R

*Ed-itorial are the views of WX2R and are his own.
They do not reflect FLARC , it's council or members .*

A Year-End Thanks To Our VE's

VE Coordinator Pete KD2BMX reported that 14 VEC Exam Sessions were held at Fair Lawn Amateur Radio Club (including December) at the Fair Lawn Amateur Radio Club.

Additional VEC exams run by FLARC VEs were held in Wayne and Hackensack during 2018 for a year total of 16.

A thanks to the following club members who made the 2018 FLARC VE (Volunteer Examiner) program a success:

Steven Boston K2SAB

Kai Chen K2TRW

Ed Efchak WX2R

Thomas Guida W2NZ

Joe Lannuier K2JK

Robert Merrit KC2ORX

Roger Ringers K2RRB

Peter Senesi KD2BMX

Lee Smith KD2DRS

Chris Sweisberger W2TU

Bob Rogan K2OFC

Gene Ottenheimer WO2W



News About Fair Lawn RACES (Continued)

The Bergen County RACES nets are held on the 2nd and 4th Wednesdays every month at 1945 and various towns host these nets throughout the year. Two repeaters are utilized for these nets - Paramus, NJ (RX 146.79 / TX 146.19, PL TX Tone 141.3) and Franklin Lakes, NJ (RX 146.79 / TX 146.19, PL TX Tone 162.2). The Franklin Lakes repeater is the primary repeater.

Our next FL-RACES KB2FLR net will take place on Wednesday, December 12th at 1900 hours. The Fair Lawn ARC Repeater was used (RX 145.47 MHz / TX 144.87, PL TX Tone 167.9 Hz). Thank you to the Fair Lawn Amateur Radio Club for permitting FL-RACES to use the repeater.

The volunteer efforts of our members are very much appreciated. All of the events noted above could not have happened without you.

Our monthly meetings usually take place right after the FLARC business meeting. Please join us for the next FL-RACES meeting.

If you are interested in joining the Fair Lawn RACES, please contact me. You don't have to be a Fair Lawn resident to be a part of Fair Lawn RACES.

For information regarding Bergen County RACES, please go to <http://www.bcnjraces.org>.

Thank you very much and Seasons' Greetings!!
See you soon and 73.

DE Dave KD2MOB

Get On The Air!

You Worked Hard For It...

Around The Shack

By Hal Kennedy N4GG

1/12TH Wavelength Coax Transformers – Another Useful Transmission Line Trick

Last month we took a look at “line-flatteners,” which can flatten the SWR of a dipole over a wide frequency range. An 80 meter dipole can cover the entire band with less than 2:1 SWR if a line-flattener is used. The line-flattener is made up only of coax and we need coax to reach the shack anyway... it’s better than “something for nothing,” because a line-flattener used at the right place can eliminate the need for an antenna tuner.

What else can we do with various lengths of coax? The possibilities are endless. A quick read through the ARRL Antenna Book or an on-line search will yield lots of ideas for transforming impedances and feeding arrays of antennas using nothing but specific lengths of various impedance coax. There is no way to cover them all, but last month’s column and this column describe my two favorite (read: most useful) coax “tricks.”

Dipole antennas typically exhibit 75 ohms impedance at resonance. This is a near-perfect match for 75 ohm coax, but running 75 ohm coax all the way to the transmitter leaves the SWR for a 50 ohm transmitter at 1.4:1 at resonance, and as we move away from resonance the SWR climbs from there.

What we need is a way to transform a 75 ohm transmission line to 50 ohms with low loss, and if possible, using something simple like coax rather than an antenna tuner.

We have what we need to shift from 50 to 75 ohms, and back again if we need to – it’s called the “1/12th wavelength coax transformer.” Figure 1 shows how it’s done.

Starting with 75 ohms (example: the feed point of a dipole) we add 1/12th wavelength of 50 ohm coax followed by 1/12th wavelength of 75 ohm coax. At the far end of the 75 ohm section the impedance will be 50 ohms.

75 ohm Antenna End

50 ohm Shack End

1/12 th wavelength 50 Ohm Coax	1/12 th wavelength 75 Ohm Coax	Any length 50 Ohm Coax
--	--	---------------------------



Figure 1. A “1/12th Wavelength Transformer”

Besides dipoles, there are other uses for a 1/12th wavelength transformer – particularly for long transmission lines. 75 ohm hardline is available at hamfests and sometimes cable companies scrap it as they move to fiber optics. 75 ohm hardline makes a great transmission line – the loss in hardline is very low. Loss, however, goes up with SWR. If we want to feed a 50 ohm antenna using 75 ohm hardline, there will be a mismatch at the antenna and again at the transmitter. The two mismatches raise SWR which raises loss. The mismatch at each end can be eliminated using a 1/12th transformer to move from 50 ohms to 75 ohms at the antenna, and another 1/12th transformer at the shack end to move from 75 ohms back to 50 ohms. I have seen this done at large stations where the feedlines to distant towers are very long.

Continued on next page.

Around The Shack (2)

There are other ways to move back and forth from 50 to 75 ohms, but in my opinion none are as good as a 1/12th transformer. There are 50-75 ohm un-uns [unbalanced to unbalanced transformers] available, but they have loss and are large and expensive if they need to handle 1500 watts, particularly when the SWR is not 1:1. Un-uns do have the advantage of having large bandwidth and one un-un can cover multiple ham bands. The 1/12th transformer will only cover one band. If you want to use a single transmission line on multiple bands, the un-un may be the best choice vs. having to switch in a different 1/12th transformer for each band.

Figure 2 shows the SWR of a dipole resonant at 7.1 MHz, 60 feet high, fed with 50 ohm coax. The SWR at resonance is 1.7:1. The SWR is high because the antenna isn't exactly 75 ohms. The bandwidth for 2:1 SWR is 260 KHz.

Figure 3 shows the same setup as Figure 2, but with a 1/12th transformer at the antenna end. The SWR is now 1:1 at resonance and the bandwidth for 2:1 SWR has increased to more than 500 KHz – enough to easily cover the entire 40 meter band.

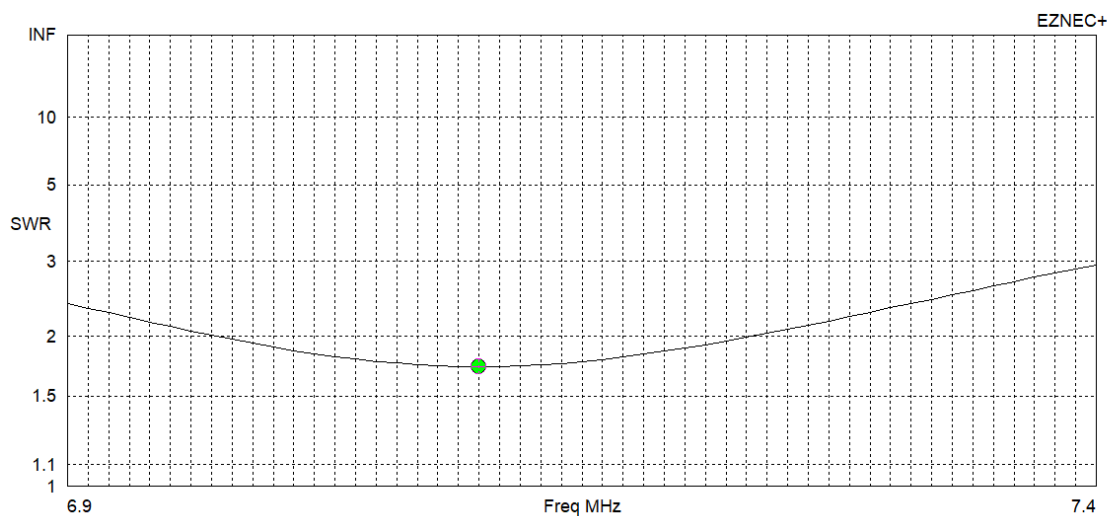


Figure 2. 40 Meter dipole fed with 50 ohm coax

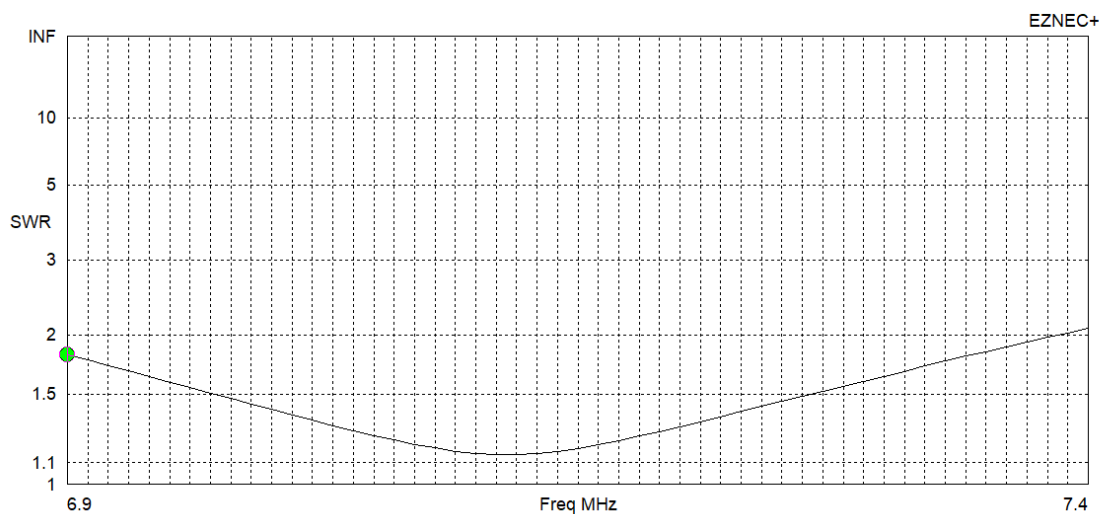


Figure 3. 40 Meter dipole fed with a 1/12th transformer and 50 ohm coax

Continued on next page.

Around The Shack (3)

An important reminder: when calculating the length of a $1/12^{\text{th}}$ wavelength section of coax, the velocity factor (Vf) of the coax must be taken into account. In the example above, the $1/12^{\text{th}}$ wavelength sections would be 11.54 feet if the Vf was 1.0 – but the Vf for coax is NEVER 1.0. Using RG-59B/U (Vf = 0.66) for the 75 ohm section and RG-8X (Vf = 0.78) for the 50 ohm section, the lengths are:

50 ohm section: 9 feet
75 ohm section: 7.6 feet

I selected RG-59B/U and RG-8X as they available for a reasonable price from The Wireman in SC.

A minor detail: There is a formula for calculating the precise lengths needed for a “ $1/12^{\text{th}}$ wavelength transformer,” and the result from the formula is a few percent shorter than $1/12^{\text{th}}$ of a wavelength. The formula includes some higher math and can be ignored; $1/12^{\text{th}}$ of a wavelength is close enough. The formula can be useful however, as it applies to transforming any impedance (within reason) to any other impedance.

Here is the formula if interested:

$L = [\arctan(\sqrt{B/(B^2 + B + 1)})]/(2 * \pi)$ where B is the ratio of the two impedances.

The best way to handle the formula is in an Excel spreadsheet.

The $1/12^{\text{th}}$ transformer is described on several websites, and was published in the June, 1997 QST. You can read the article in the QST archives. It was originally published in *Electrical Engineer Vol 33* in January, 1961. January 1961 is when I received my license – a happy coincidence.

73,
Hal N4GG

Notes From All Over

Congratulations to club member Ria Jairam N2RJ on her election to Hudson Division Director. All the best from FLARC!

A thanks to John at Advanced Specialties in Lodi for supporting FLARC in handing out auction flyers and now carrying club brochures. The store is located at 114 Essex Street in Lodi (closed Sunday and Monday). www.advancedspecialties.net

Glenn KB2MDR reports that our shirt vendor, Hamthreads, has been sold. The new owner (Diane) prefers ordering via the web. All items were there including both our club patches. No problem making the order and using PayPal. Thanks for the update!

Look For Your 2019 FLARC Member Survey On New Year's Day

Need something to do on New Year's?
Why not take a survey!

This year's FLARC member survey will be a bit shorter than last year but include a host of new topics submitted by members including:

- Interest and use of digital modes
- Contesting
- Use of the W2NPT repeater
- Awards
- Finding revenue to improve the station and
- Operating W2NPT

Look for your survey around the New Year's holiday in your inbox. We'll report the findings at the February program session.

ARRL FIELD DAY 2018 RESULTS ARE RELEASED



If you thumbed through the December 2018 issue of *QST* you've probably checked the annual roundup of Field Day scores. FLARC was credited with 6,810 points up from 3,022 (+125%) in 2017. The club moved to category 4A this year from 2A last year.

The database is now also available.

Here are our club's rankings based upon our final total of 6,810 points. FLARC ranked:

- **113th overall (up from 602) out of 2,902 total entries (4th percentile/up from 18th)**
- **13th out of 125 in category 4A overall**
- **8th in total points within the Hudson Division (up from 26th)**
- **2nd in total points in category 4A within the Hudson Division**
- **2nd in total points within the Northern New Jersey section**
- **1st in total points category 4A within New Jersey**
- **1st in Northern New Jersey section in total points in category 4A**
- **5th in New Jersey overall in total points**
- **10th in total QSO's in the Hudson Division**
- **2nd in total QSO's in category 4A within the Hudson Division**
- **2nd in total QSO's in the northern New Jersey section**
- **1st in total QSO's in category 4A within northern New Jersey**
- **1st in total QSO's in category 4A within New Jersey**
- **4th in overall member participation in New Jersey with 49 and**
- **1st in member participants in Northern New Jersey with 49!!**

A top twenty percentile finish among all categories in a far more competitive category (4A) than our old 2A was a really positive effort, especially with our history of being "casual testers".

Year	Score
2018	6,810
2017	3,022
2016	2,598
2015	2,082
2014	1,150
2013	No Submission

A large measure of congratulations to all of our Field Day participants... only six months to go until FD 2019!

Annual Meeting Of The Fair Lawn Amateur Radio Club December 7, 2018

President Brad KM2C called the meeting to order at 6:09 p.m. The members rose and recited the Pledge of Allegiance.

Secretary Randy WU2S called the roll of officers and trustees and all were present. The meeting had a quorum to conduct club business.

Secretary Randy WU2S announced that he sent the minutes from the November meeting via email to members of record and published them in the club's newsletter, *The Resonator*, which is on the club's website at newsletters.FairLawnARC.org. He asked the members present if there were any corrections or amendments needed. There were none so Brian KD2KLN moved to accept the minutes as published and Nomar NP4H seconded the motion. The motion passed by acclamation.

Treasurer Al WA2OWL presented this month's Treasurer's Report. He reminded members that he is now accepting payments for the 2019 membership dues. Our membership roll is now up to 150 members. Gordon W2TTT moved to accept the report as read and Chris KD2JQZ seconded the motion. The motion passed by acclamation.

President Brad KM2C announced that the unopposed slate of officers and trustees nominated for 2019 are elected. The elected slate for 2019 is:

- President: Brad KM2C
- Vice-President: Van W2DLT
- Treasurer: Al WA2OWL
- Secretary: Randy WU2S
- Trustee: Don N2PRT
[3-year term]

President Brad KM2C remarked that 2018 has been a busy and successful year for FLARC. We added many new members, making us one of the largest amateur radio clubs in New Jersey.

We completed a significant antenna and tower upgrade safely, efficiently and at a lower cost than if we had to use outside help.

2018 Annual Meeting (Continued)

Our monthly newsletter has grown to over 40 pages, with a lot of original content.

Vice President Van W2DLT reported that the FLARC Council has decided to establish an annual *W2NPT Memorial Award in honor of Frank Leonard*, to recognize the long-term contributions of a FLARC member. He announced that the first recipient of this award is Gene WO2W for his long-term, frequent and continuous contributions to FLARC's success. The members and their families present loudly applauded Gene and thanked him.

Having no further business, President Brad KM2C asked for a motion to adjourn. Chris KD2JQZ so moved and Skip KD2BRV seconded the motion. The members present voted in favor and the meeting was adjourned at 6:18 p.m. -- followed by the annual holiday dinner.

Respectfully submitted,

Randy WU2S, Secretary



2019 FLARC officers and trustees. L to R:
W2JC, W2DLT, N2PRT,
WA2OWL, KM2C, WU2S and KD2BRV.

Bulletin At Deadline

At the annual meeting, Al WA2OWL announced that FLARC membership reached a record high of **150** for calendar year 2018. This is, of course, thanks to all of you for your interest and support in making FLARC the most "radioactive" ham radio club in New Jersey.

**Borough Of Fair Lawn Honors FLARC
By Proclaiming December 7, 2018
"Fair Lawn Amateur Radio Club Day"**



**Certificate of Commendation from the Mayor
and Council of the Borough of Fair Lawn**

Presented to

Fair Lawn Amateur Radio Club

Given with grateful appreciation for the Club's
services to the Borough of Fair Lawn
and its residents



I do hereby proclaim Friday, December 7, 2018

"FAIR LAWN AMATEUR RADIO CLUB DAY"

within the Borough of Fair Lawn and do further extend sincere best
wishes to all Fair Lawn Amateur Radio Club Members for a Happy
and Healthy New Year!



Kurt Peluso, Mayor

Dated: December 7, 2018

FLARC Celebrates A Successful 2018 At The Annual Holiday Party

A Senior Center full of revelers and mounds of food marked the annual FLARC holiday party. A long-standing tradition, the party is always free to members and their families and this year saw a seemingly record turn-out. A thanks to Mayor Peluso for attending and a large shout out of thanks to Judith KC2LTM for being the party organizer. Following the formal annual business meeting, President Brad KM2C narrated a video presentation on the eight days of work done during the antenna and tower upgrade project. Many thanks to those who provided food and gave of their time to make this party one to remember. And thanks to KJI Electronics for the gifts!



The food line gets organized



Chris WA2RJC and guest.



Nomar NP4H and John NN2H (R) head up the holiday food line



Peggy W2GB and John NN2H



Brad K2MC narrates the antenna tower construction video



Steve KD2PJK

Andrea Slack K2EZ Shares Her Knowledge On Rover Operations

The November 16th presentation drew 30 members and guests and provided a textbook on what it takes to be a successful Rover. Andrea's excellently organized presentation was appreciated by all with many questions and a number of the more-than-curious who took the time to admire her vehicle in the parking lot. Thanks to K2EZ for a great presentation!!



An attentive crowd paid close attention



Ed WX2R presents Andrea with a certificate of thanks as Brad KM2C looks on.



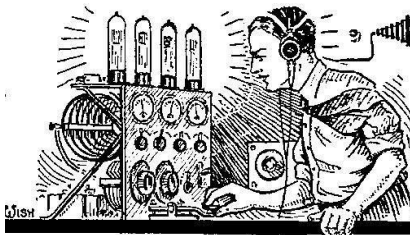
L to R: Steve KA2YRA, Skip KD2BRV and Bob KD2BKD



Andre walks us through "rovering" at its best



The Rover itself at a recent hamfest



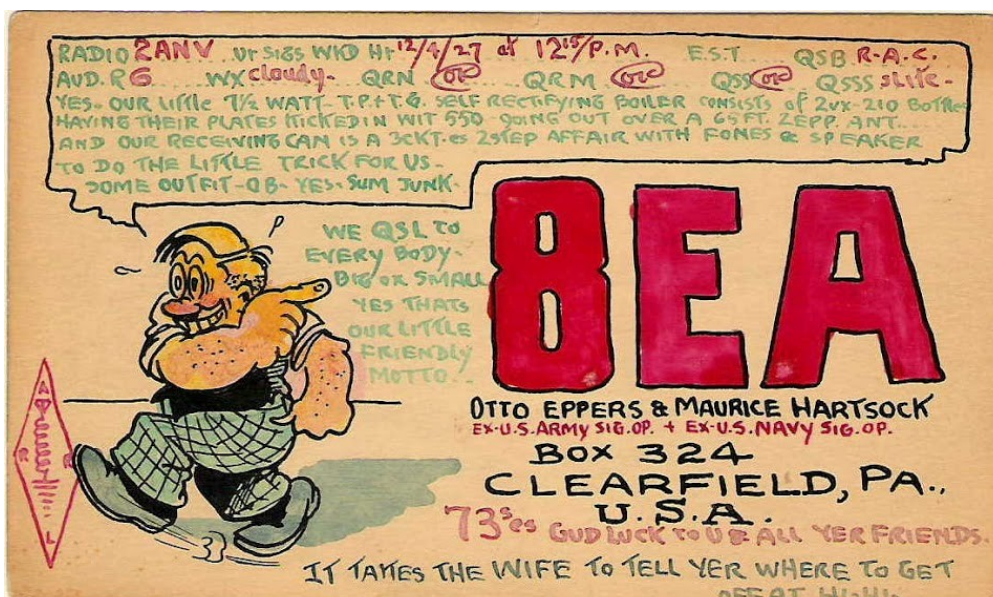
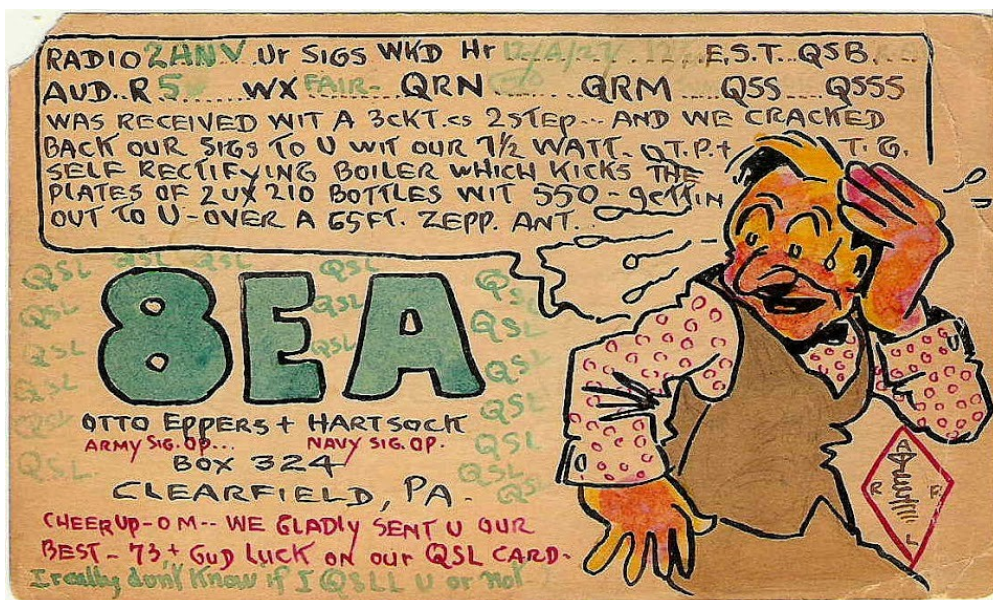
The Way We Were -- The Art Of The QSL (Part 5)

By Fred Belghaus W2AAB

Last month, we looked at the QSL artwork of Phil Gildersleeve, W1CJD. This month, we will focus on the work of Otto Eppers, originally 8EA, then W8EA, and finally licensed as W2EA in New York.

Image from May, 1926 QST, courtesy ARRL

Eppers was a colorful character, perhaps best known for his daredevil leap off the Brooklyn Bridge in 1910, when he was 17 years old. A full account of this stunt, as well as far more information about his life and work can be found in an article by Thomas Clark on the ARRL website, cited in Note (1), below. Our primary concern this month is with his work as a cartoonist on QSL cards, a career which began in the late 1920s, and which continued into the 1950s. Some of his earliest examples are these self-designed cards from 1927:

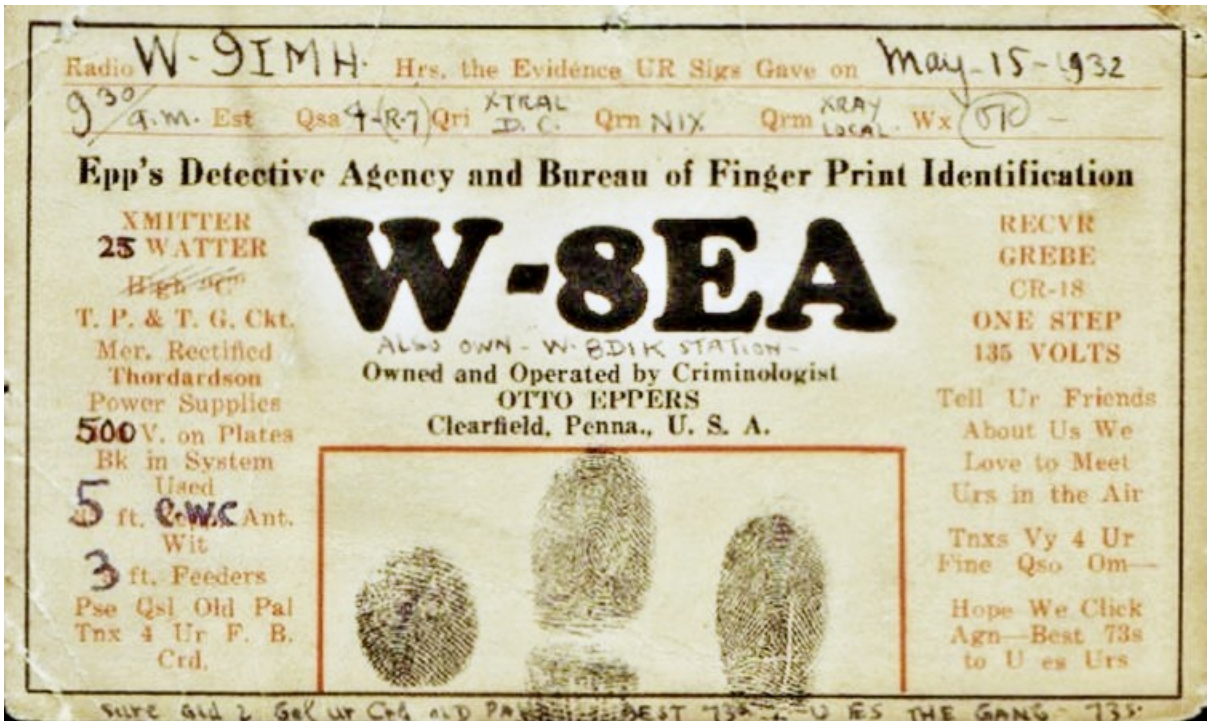


The Way We Were (2)

Maurice Hartsock is listed as 2nd operator on the 1927 cards, but nothing can be found about him other than that he was born in 1896, and died in 1979. (2)



For a time, Otto identified himself as a Criminologist, operator of “Epp’s Detective Agency and Bureau of Fingerprint Identification,” as shown by these cards from 1932:



The Way We Were (3)

WE GREET YOU FROM EPP'S DETECTIVE AGENCY
THE BUREAU OF FINGER PRINT IDENTIFICATION

W. 9 13 8 10 and W. 9 13 11
RADIO

W-8EA **ZEPP ANT.**
 RECEIVER IS CR-18-GREBE
 PHONES & SPEAKER

UR SIGS WKD ON 12-22-32- AT 1130 PM E.S.T.
 QSA 4 R 7 QRN
 QRM Bad WX
 QRH 99.9 K.C.
 XMITTER WATTS
 M. O. P. A. INT. P. & T. G. CKT.
 COMPLETE THORDARSON POWER SUPPLIES & CHOKES

OTTO EPPERS
 THE CRIMINOLOGIST
 OWNER & OPERATOR
 CLEARFIELD, PA., U.S.A.

HERE'S THE LOW DOWN ON YOUR F.B. CALLS SIG-735

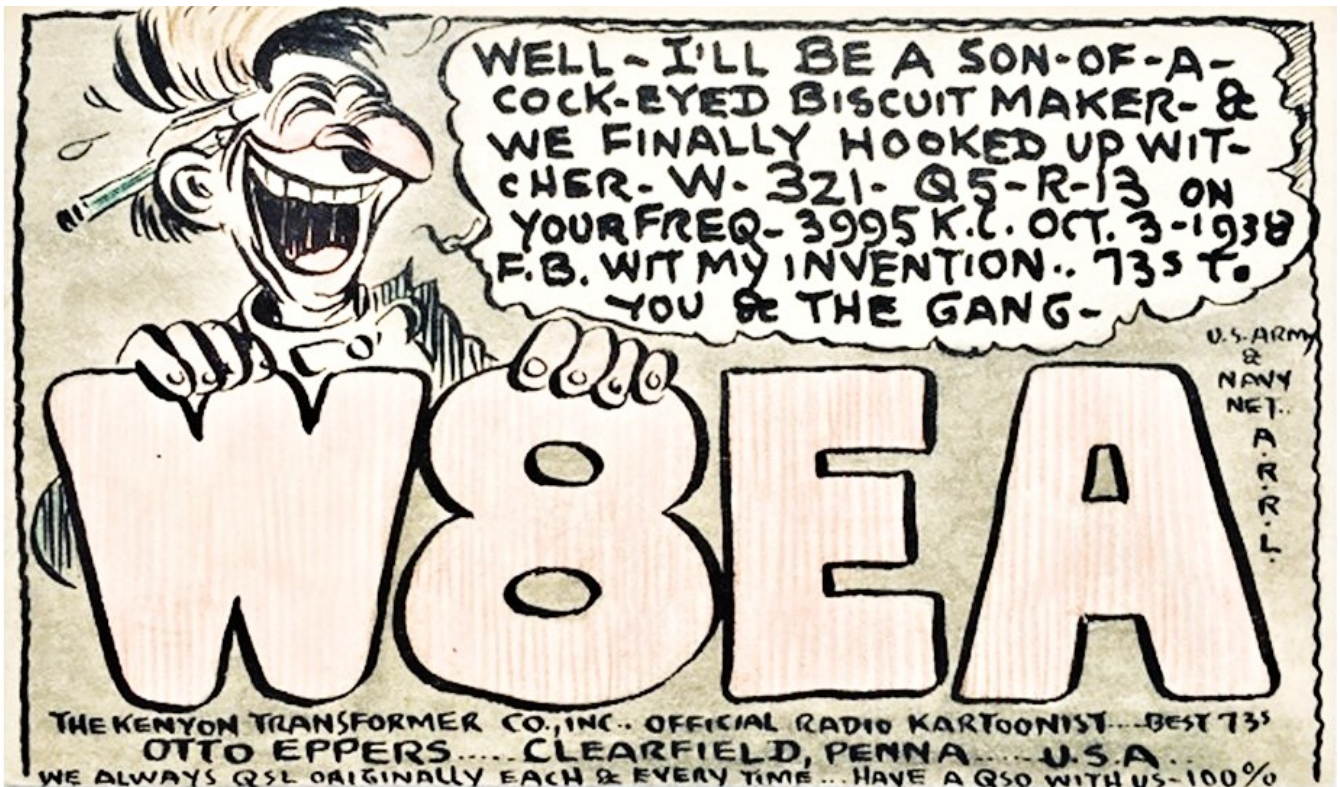
No. 1 *app* OP.
 No. 2 *app* OP.
 No. 3 OP.
 No. 4 OP.
 No. 5 OP.
 No. 6 OP.

TNXS 4 F. B. CHAT & HOPE
 2 C-U-AGN WIT VY
 BEST 739 2-U-&-URS

TNXS CRD PSE QSL
 WATCH FOR OUR OTHER STATION W-BDIK

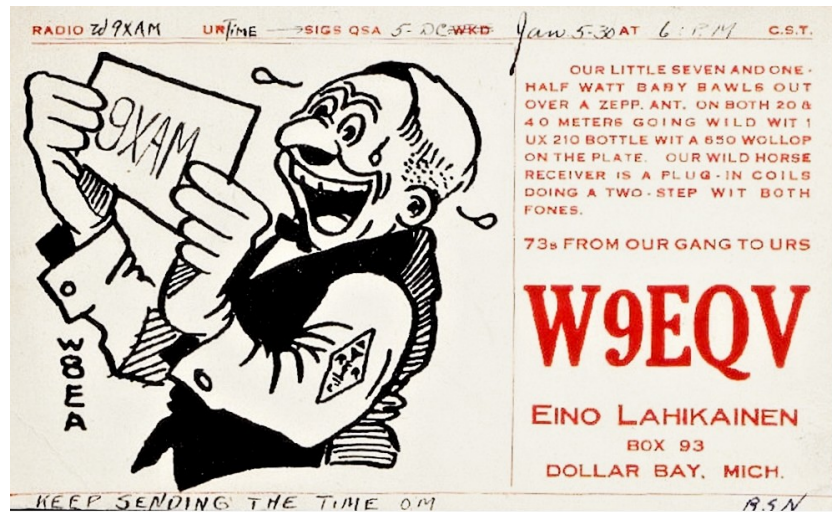
REMARKS: *Hope we GET hooked up AGAIN-90 BEST-735-ES-ANOTHER... Million OF THANKS to you*

By 1938, Eppers no longer seems to have operated this business, and returned to his usual cartooning efforts:



The Way We Were (4)

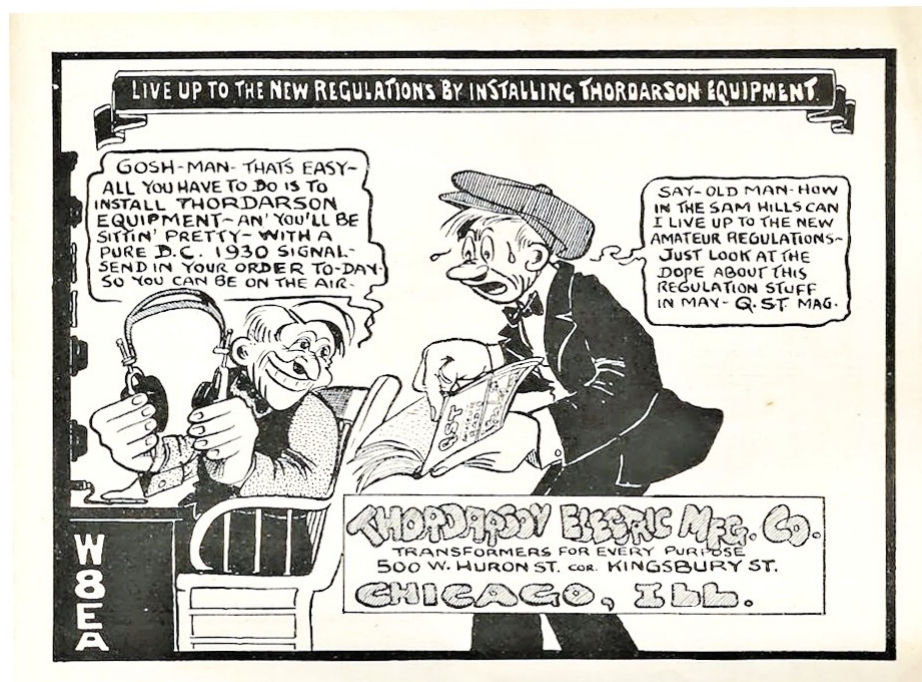
Here is an interesting card designed for W9EQV dating from 1930:



The figure Otto has drawn on the W9EQV card is (hopefully) holding a QSL from 9XAM (actually W9XAM), a station once operated by the Elgin Watch Company, which was a time signal station located at their own observatory in Elgin, Illinois, a privately owned “competitor” of WWV and similar standard time stations. (3)

W9EQV’s QSL is a reception report to this station, but his own ham station ran only 7-1/2 watts (input)! His output was likely about half that. Although the Elgin Observatory ceased operating in 1958, and their special station W9XAM was shut down long before that, the call W9XAM is currently licensed as a vanity call to the Elgin Watch Company Observatory Radio Club. (4)

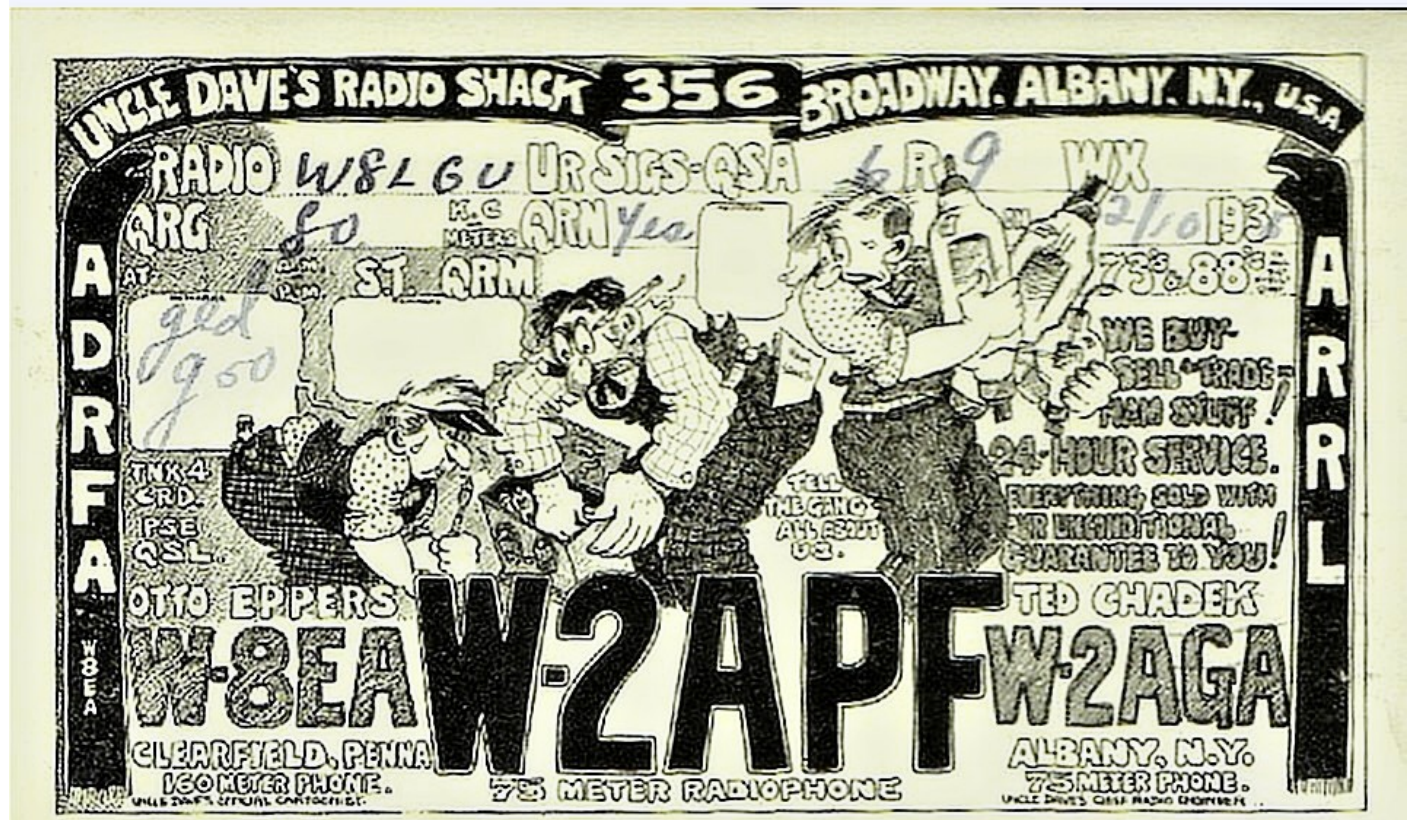
During the 1930s through the 1960s, Eppers accepted several commercial assignments, drawing cartoons for advertisements of radio parts manufacturers and dealers, which appeared in ham magazines. One of these was Thordarson Electric, well-known manufacturer of transformers:



The Way We Were (5)

The ad just above, probably dating from 1930, refers to the changes in radio laws that required “cleaner” signals from amateurs, and promoting the use of Thordarson transformers to meet those new standards.

Starting about 1933, Eppers became the “Official Cartoonist” for “Uncle Dave,” W2APF, a longtime dealer in amateur radio equipment, whose ads graced the pages of QST at least into the 1970s. Here’s “Uncle Dave’s” personal QSL from 1938, drawn by Eppers:



In later years, Eppers would also become the “Official Cartoonist” for another very famous dealer in amateur equipment, Harrison Radio, an institution in New York City for many years, and the place where countless numbers of amateurs in the metropolitan area went on a pilgrimage, including your author.

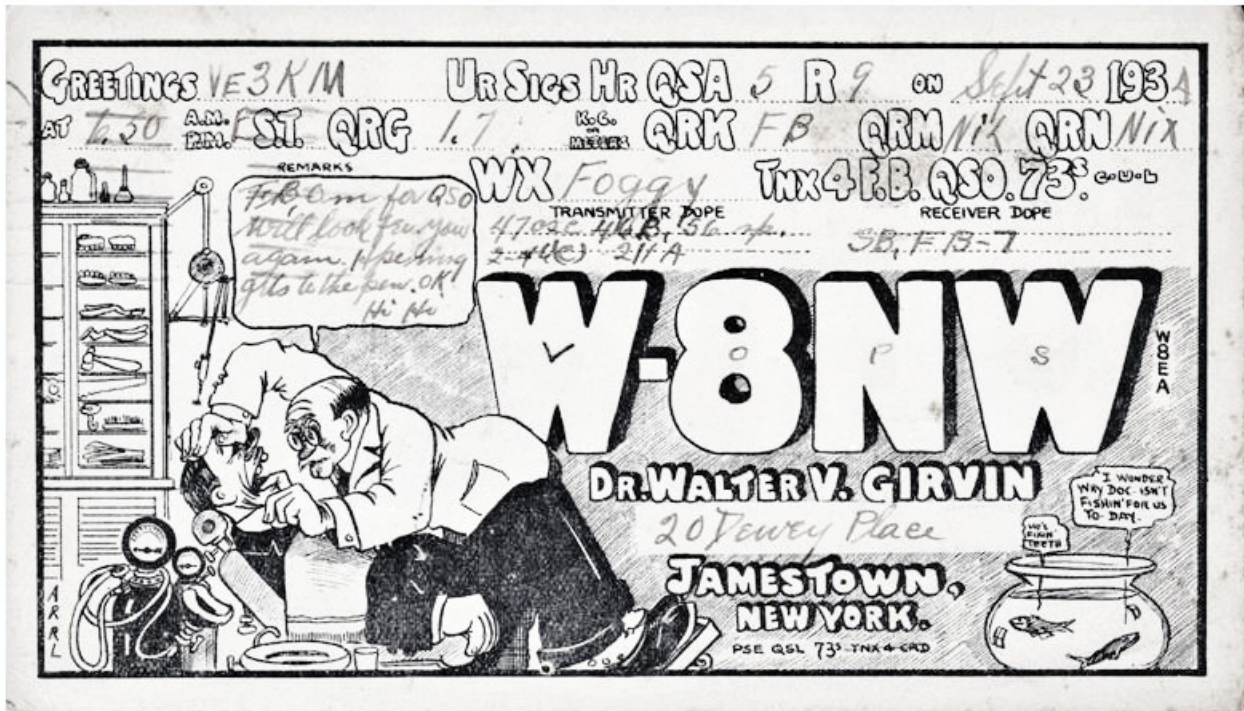
My memory of Harrison dates from 1963, when it was at 225 Greenwich Street. Three of us having just passed our General exam at the FCC office on Washington Street, walked to this “Ham Radio Mecca” to pay our respects and marvel at the row upon row of the latest ham gear, including the Collins S-Line station belonging to store owner “Bil” Harrison, W2AVA.

The Way We Were (6)

Here's an unusual theme on the card for W2FQG, dated 1933.
 The rolls of "bathroom tissue" probably relate to the operator's business activities:



This card from 1934 clearly identifies W8NW's profession:



The Way We Were (7)

Eppers also designed distinctive cards for members of amateur radio clubs, as illustrated by these examples from W8PX in 1934, and W8NGC in 1935:

RADIO STATION *W8IWL* SOUTH HILLS UR. SIGS. WKD. ON *4/21* 193*4*
 AT *648* E. ST. QSA *4* R *7* SKY... WX... TEMPERATURE...
 QRN *5* QSB *5* QRX... QRH *1995* KE... QRM *BAD*

REMARKS
TNA for FB card Hope to go off on

BRASS POUNDERS AND MODULATORS

W8PX

MEMBER OF GOOD STANDING

WITH OUR VERY BEST **73^s** TO YOU AND ALL YOUR PALS.

WE ALWAYS **QSL** TO ALL OUR FRIENDS OF THE AIR

RECEIVER
 2 tube converter to 7 tube Philco B. C. set. All loud speaker reception, Election coupled frequency meter

GILROY M. BARKER, operator 1440 Tolma Ave., Dormont, Pgh., Pa.

Atlantic Division Convention in Pgh June 22 + 23
try to come

1034 Barrie Avenue Flint, Michigan

CHAIR WARMERS CLUB

W8NGC

TRANSMITTER
47X-2-465 Amp 60 watts

RECEIVER
Natl 7B-7

HAZEN P. BROWN, Opr.

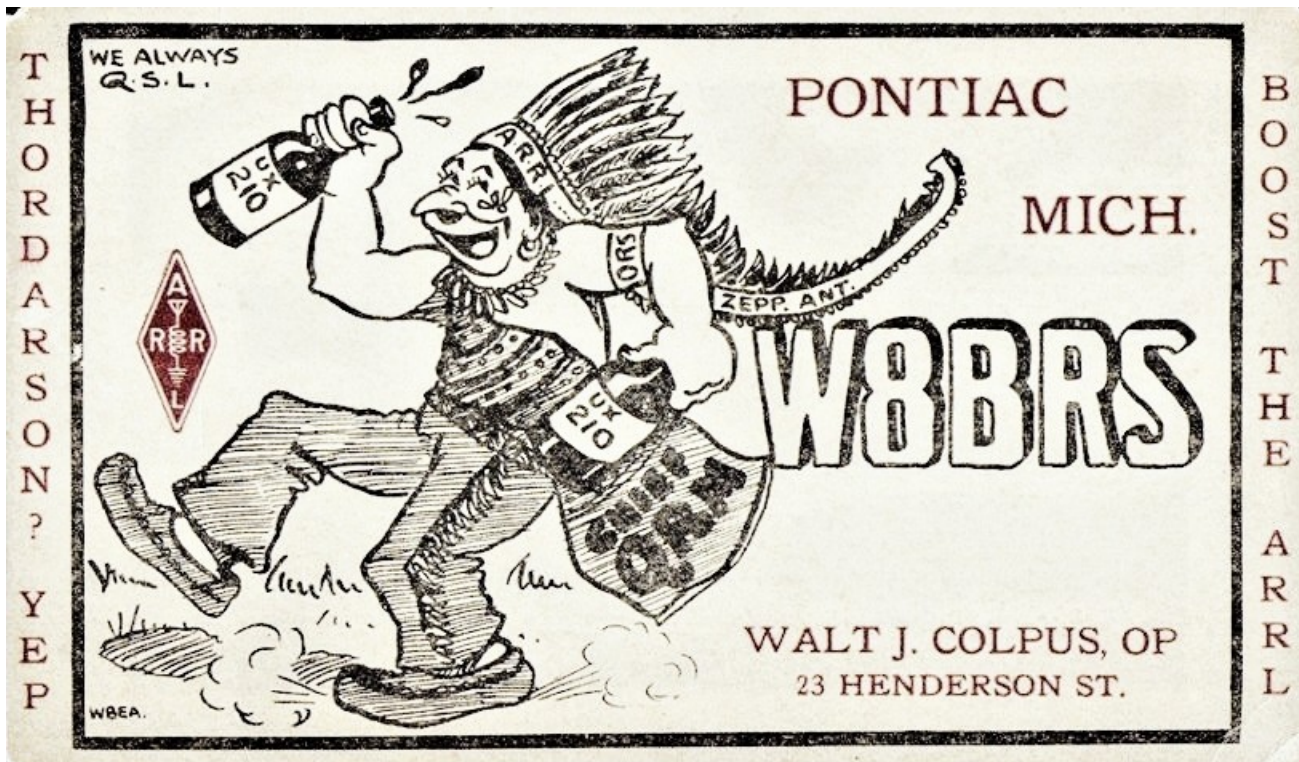
Radio W8Len
ur cu sigs wked in 11-18-35 - not 5-9-94 -
True for bb pos ls Hpe to work u agn sw.
??? PSE QSB ??? Wud like a W.Va. card om 73

The Way We Were (8)

The South Hills Brass Pounders and Modulators were established in 1933, and was an ARRL Affiliated club. Its last Annual Report was filed in 2008, which reported having 8 members.(5) It once held the call W3PIQ, which expired and became relicensed as KB3BUE, which has also expired.(6) The club no longer appears to be active.

The Chair Warmers Club was established in 1929 by Walt Colpus, W8BRS, of Pontiac Michigan, based on an idea by Max Colvin, W9WV, of Kansas City. For many years it published a newsletter which included cartoons drawn by Otto Eppers, who was an active supporter of the club. Its membership consisted of blind, handicapped, and shut-in amateurs.(7) It is not known whether the club is still active, as no current online references can be found.

Here's an early 1930s QSL from its founder, W8BRS, designed by Eppers:



The Way We Were (10)

Finally, CO7VP's 1939 card depicts what is probably a sugar plantation, one of many once operated by foreigners in Cuba and other nations in Central America:



CO7VP's 1950 card is identical except for a change in background color:



The Way We Were (11)

Here's W2BMB of Bellmore, Long Island portrayed as a postal worker in 1937:



Our next example is from W8JEX of Toledo, Ohio in 1938:

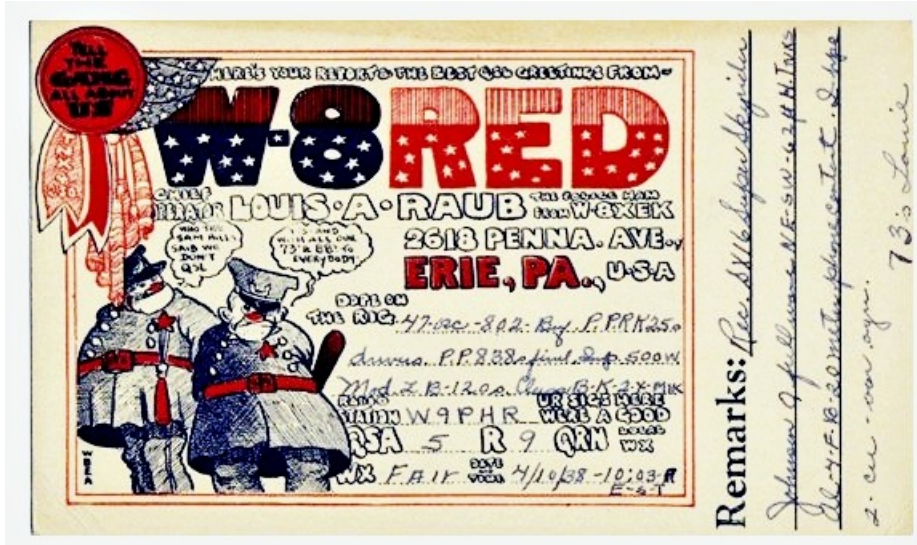


This card identifies the operator as a teacher, possibly of radio courses. To the right, directly above Eppers' call (W8EA), is a small diamond with the letter "K" inside it. This was the logo of the Kenyon Transformer Company, a once well-known transformer manufacturer, and one of Eppers' commercial advertising clients. The Kenyon logo also appears on CO7VP's cards, above.

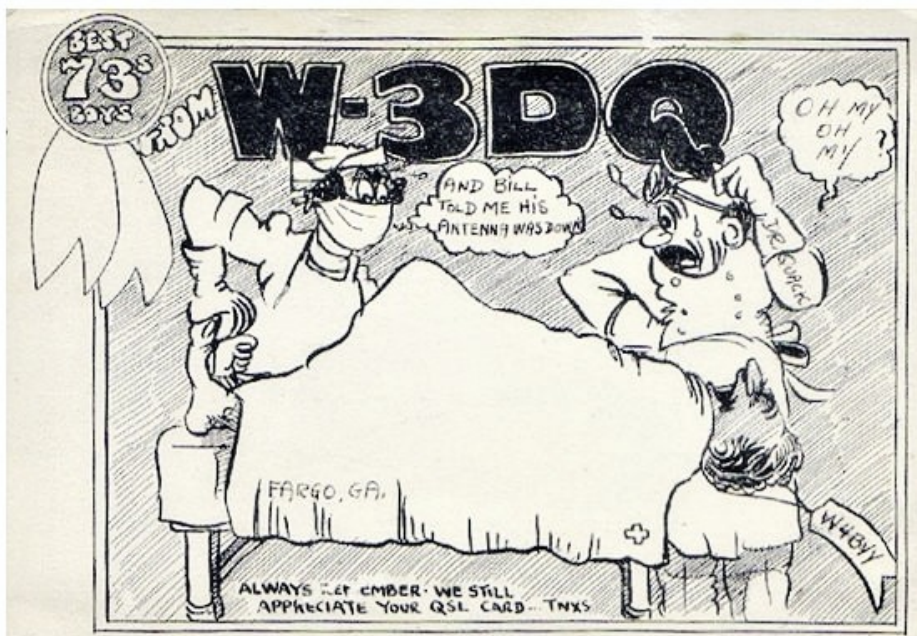
The Way We Were (12)

The Kenyon catalog for 1937 includes data on their line of audio and power transformers, as well as design data for a variety of power supplies and audio amplifiers, and even two designs for cathode ray oscilloscopes. (8) By 1938, the company was also manufacturing deflection yokes for television. (9)

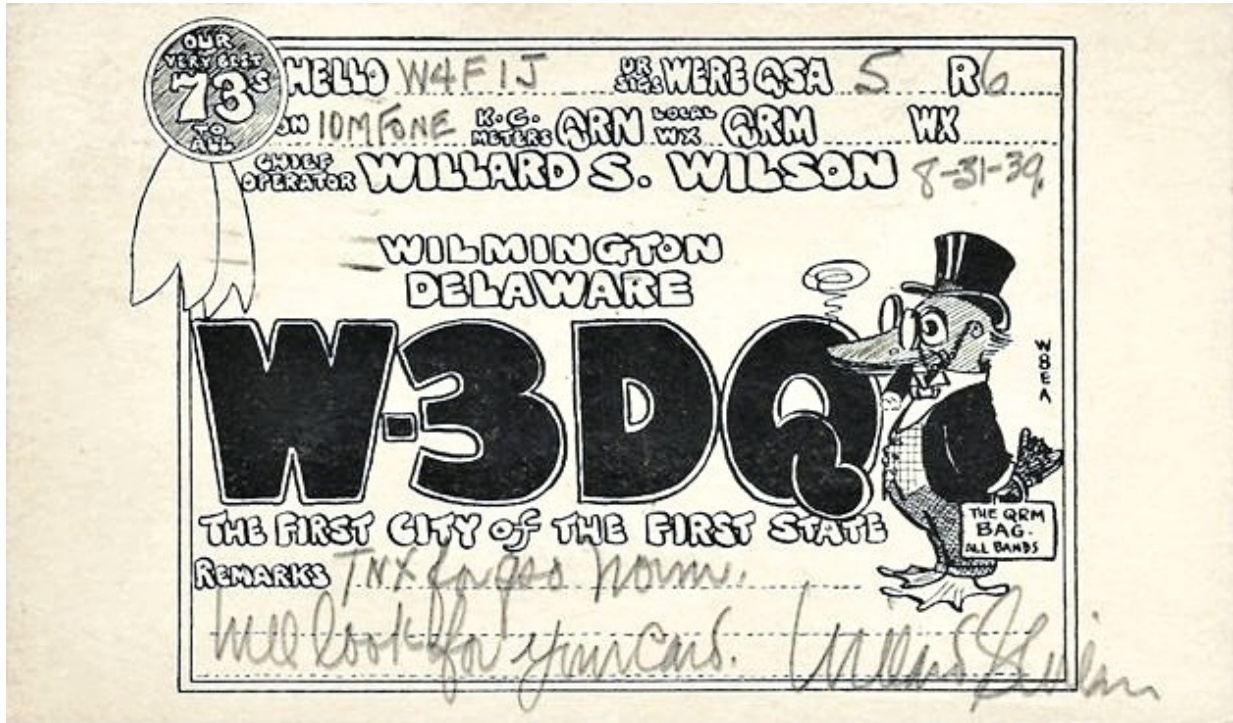
W8RED is identified as “The Police Ham” on this card from 1938. The call W8XEK, at right, is not an amateur call, but an “Experimental” call, possibly belonging to the Erie, Pennsylvania Police Department’s radio dispatch station, where it is presumed W8RED worked as an operator or technician:



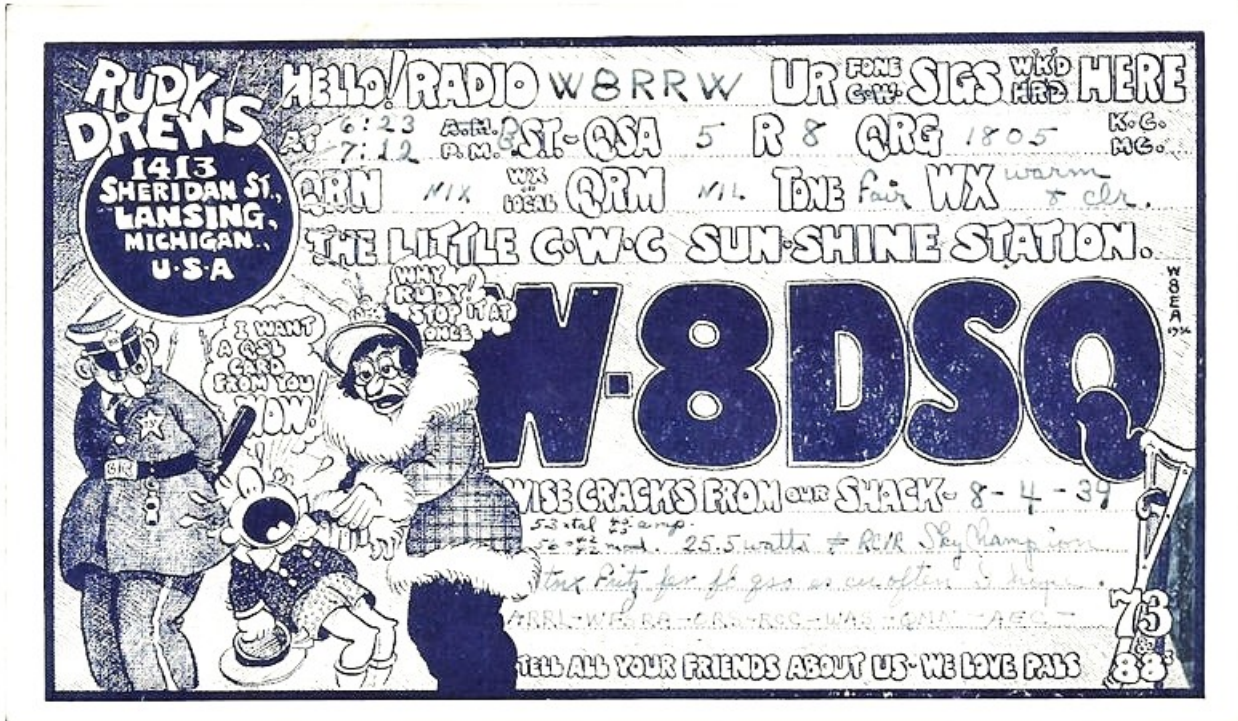
Here are two cards from W3DQ of Wilmington, Delaware, dating from 1937 and 1939 respectively, who was apparently a physician:



The Way We Were (13)



Beginning with 1939, we notice a slight evolution in Eppers' drawing technique, an evolution more fully developed in his cartoon cards of the 1940s:



The Way We Were (14)

W8ROP, a nurse, was possibly the earliest YL operator to use Eppers' cartoon services. She was the XYL of W8RED. Note the Kenyon logo again at bottom:

GOOD BY OM, I HOPE TO CONTACT YOU REAL SOON. BE OLD MAN, 75 "WHEE" WHAT A TERRIBLE HI-RI-TH

HELLO RADIO W3BAD I NURSED YOUR SIGS IN HERE ON

June 9 1939, AT 10:54 A.M. EST. P.M. EST.

QSA 5 R 9 QRM 70 QRM 70

W-8ROP REGISTERED OFFICIAL PAL

CHIEF OPERATOR **RUTH E. RAUB**
2618 PENNA. AVENUE,
ERIE, PENNA., U.S.A.

REMARKS: Info Dec 4 F.B. 20
Metro phone contact - see w.
Sonagaw. Best 88's - Ruth

Kenyon logo at bottom center.

Vertical text on right: U GAB BOY NO SENA ME W CARA. H.

Look FER ME SONDAY NOV 2 ON 28270Kc

HAM and SERVICE MEN'S PARTS and SUPPLIES

HELLO RADIO W3IXF UR SIGNAL HERE ON OCT 26 1941.

AT 500 PM CST. 10 METERS QSA 5

R 8 QRM 50M ANL LOCAL WX TEMPERATURE 70

WX VY F.B. ANT USED MULTI WIRE DOLT

REMARKS Well DOPE. 50 WATTS
Charlie we had RME 99 es DM 36
a swell QSO. Want in XYL to call
Best rag me next time
chew in. she is in
a long time Amarillo. This
will look pix is me
in our QSL at age 15 1/2

W-5WX

A J (BERT) ARNOLD
1414 HUGHES STREET, AMARILLO, TEXAS, U.S.A.

73° - "Bert"

My first reaction upon seeing this card was to wonder what "Alfred E. Neuman" of MAD Magazine fame was doing on this old QSL. Some research, however, uncovered an interesting history about the image.

The Way We Were (15)

According to Wikipedia, early forms of it can be traced as far back as 1877, and it first appeared on an advertisement for a Broadway stage play called, *The New Boy* in 1894. A slightly altered version appeared next on an advertisement for plum pudding in 1895.

The image was then copied on numerous other ads for everything from “painless dentists” to soft drinks and at least one political advertisement, one of which was used to ridicule a “typical” supporter of Franklin D. Roosevelt during his 1940 bid for re-election.

It was also the subject of an unsuccessful lawsuit filed against MAD Magazine for alleged copyright infringement. A similar figure remains their trademark image to this day. (10)

Several local amateurs had cards drawn by Otto Eppers during the 1940s and '50s. The earliest was for Stan Sears, W2PQG, who first lived in Jackson Heights, Queens, but whom we know locally as a former resident of Paramus. Here's his card from 1946. Eppers' theme includes Stan's famous phonetics, “Pints, Quarts, and Gallons,” as shown below:



The Way We Were (16)

This card for Ted Cain, W2CCC, formerly of Oradell, dates from the early 1950s:



Closer to home, is this example from W2AXC, "Hank" Johnson, who once lived on 34th Street in Fair Lawn. It dates from 1953, and confirms a contact on 2 meters. "Hank" was one the original members of Fair Lawn Civil Defense RACES:



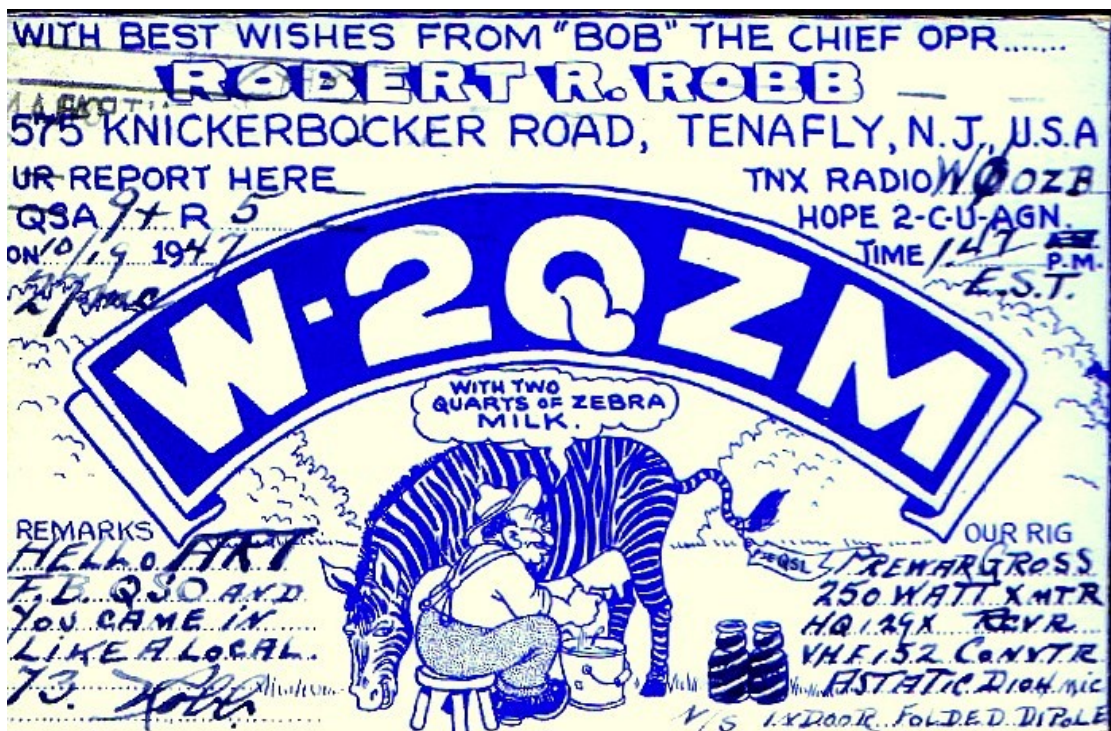
The Way We Were (17)

Fair Lawn CD RACES was established by Bill Strattan, W2KBH, who once lived on Prospect Ave. In 1953, he obtained the second station call of K2DQP, located at the building belonging to Fire Company No. 4 on Radburn Road, which became the first EOC. Until only several years ago, the remains of a quarter wave 2 meter ground plane antenna could still be seen on the left hand side of the Fire Company's roof.

Other members of the original RACES group were "Hank," W2AXC, Vito Palazzolo, W2UYR (on Jordan Road), Art Jones, W2IOU (34th Street, some houses down from W2AXC), Al Starr, W2IND (on Rutgers Terrace), Al Newland, W2IHW, of Glen Rock, and Lou Sposa, W2OMI of Saddle Brook.

As a group project, the members constructed their own 2 meter transmitters for the RACES net, designed by Al, W2IHW, which was published in QST in 1954, with pictures of the original Fair Lawn RACES group. (11)

Three other locals had cards designed by Eppers. The first is that of W2QZM, operator Bob, of Tenafly, and dating from 1947:



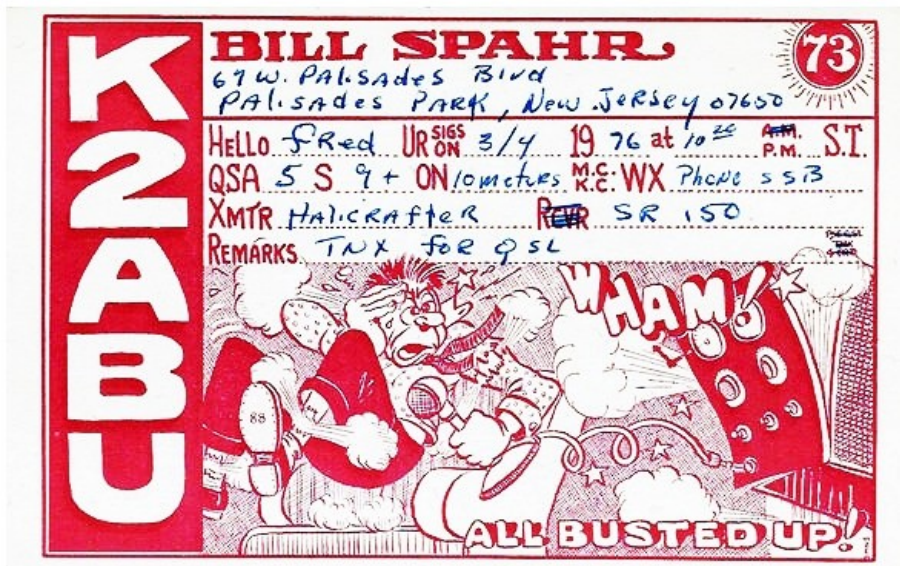
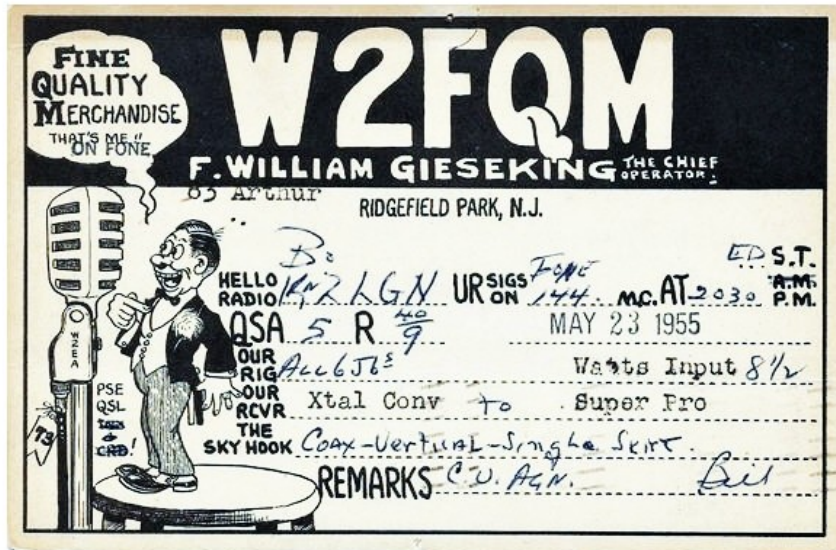
Here, as in many other examples, is a play on the operator's call, which has been given unique phonetics. In this case, they are "2 quarts of zebra milk."

The Way We Were (18)

Note that the transmitter is given as "Prewar Gross 250 watt." This refers to one of a series of transmitter kits first sold by Jerry Gross, W2AAE, beginning in the early 1930s. These were simple, relatively inexpensive designs, ranging from their model CW-25, a 25 watt input CW transmitter, to transmitters running several hundred watts.

Gross was the forerunner of such firms as Heathkit and Eico, offering moderately priced alternatives to the few rather expensive commercially produced transmitters available to hams in those days. Most amateurs, many of whom were teenagers, couldn't afford the expensive rigs, especially during the Great Depression, so they built their own -- frequently using parts cannibalized from old broadcast band radios, or completely home-made. It was not unusual for some young hams to build their own capacitors, resistors, RF chokes, transformers, and of course, inductors. Some actually built their own vacuum tubes!

Here are two more local Eppers cards originating from the 1950's:



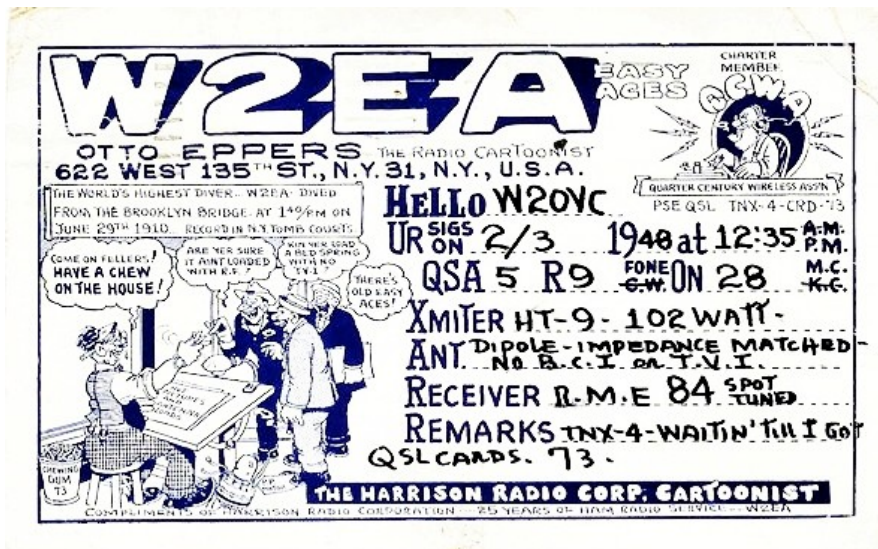
The Way We Were (19)

Here's a card from a call that old timers will quickly recognize. It confirms a CW contact, and dates from 1947:



Harry later changed his call to W2HD and was, for many years, a major figure in the A.R.R.L. Harry had been President of the League from 1972 to 1982, and President of the Quarter Century Wireless Association (Q.C.W.A.) from 1989 to 1994. In 2016, he was honored by the Q.C.W.A. for celebrating his 70th year as a licensed amateur radio operator. Dannels is the only person to have served as President of both organizations. In 2016, he was the oldest living former President of the A.R.R.L. (12) He is presently listed in public directories as being 91 years old, and a resident of Charlottesville, Virginia. (13)

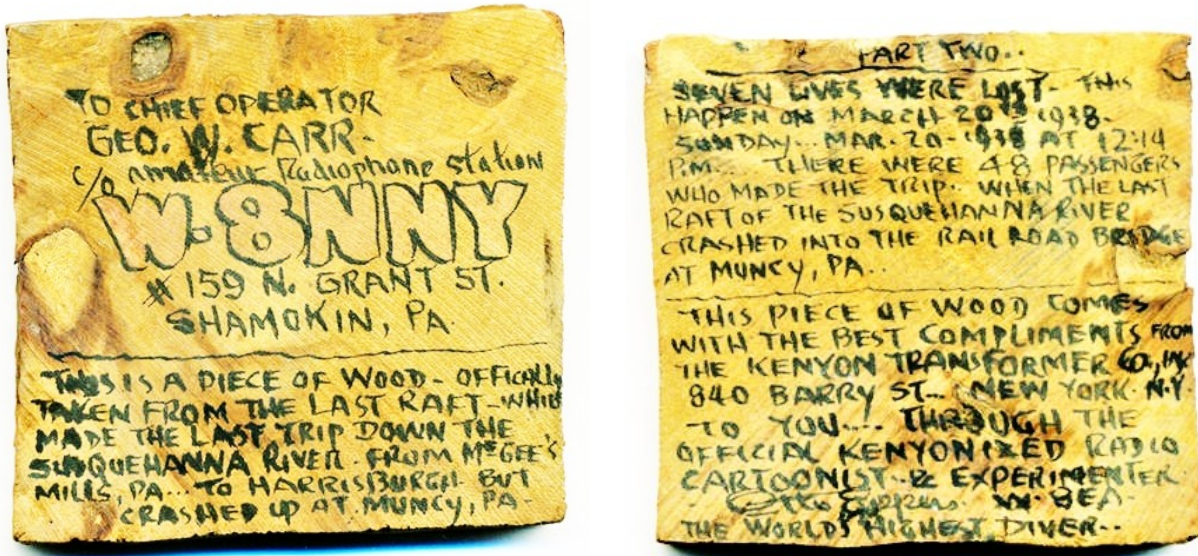
We've seen Otto's personal QSL designs, beginning with two hand-drawn efforts from 1927, and we have followed his work for many others during the 1930s and '40s. Here's an example of how his technique matured, on this later card from 1948, a technique that marked his final years of QSL work in the 1950s:



The Way We Were (20)

Notice the logo for the Q.C.W.A. at upper right. The Quarter Century Wireless Association (Q.C.W.A.) was established in 1947 by John Di Blasi, W2FX, of Little Neck, New York. Its international membership is available to any amateur who has been licensed for at least 25 years, or who was first licensed at least 25 years ago. Otto also designed their logo, which is still in use by that organization. Your author is a Life Member, and a color version of the logo appears on my own QSL card.

Our final example is that of a unique and fascinating “non-QSL” keepsake that Otto drew on a piece of wood for W8NNY in 1938:



Like Phil Gildersleeve W1CJD, Otto Eppers W2EA was one of the most legendary members of our amateur radio hobby. Otto left this world in 1955, and like Phil Gildersleeve, he is another about whom it can be truly said: he will never be replaced. Next month, a look at some other unique and interesting cards through history.

73, Fred W2AAB

NOTES:

1. Clark, Thomas, “Otto Eppers – Making Waves,” ARRL website, available at: www.arrl.org/otto-eppers-making-waves
2. Social Security Death Index listing: Maurice Hartsock
3. (Ballantine, Robert R.), W8SU, article, available at: www.oldqslcards.com/Elgin.pdf
4. Listing for W9XAM, FCC Universal Licensing System listing, available at: wireless2.fcc.gov/UlsApp/UlsSearch/license.jsp?licKey=3080072
5. A.R.R.L. Clubs Listing, available at: www.arrl.org/Groups/view/South-hills-brass-pounders-m
6. Listing for KB3BUE (ex-W3PIQ), FCC Universal Licensing System listing: wireless2.fcc.gov/UlsApp/UlsSearch/license.jsp?licKey=353945
7. (Ballantine, Robert R.), W8SU, article, “Chair Warmer’s Club,” available at: www.oldqslcards.com/CWC2.pdf
8. Kenyon Transformer Company T-Line Catalog, 1937, available at: www.bunkerofdoom.com/xfm/kenyon_T_Line_rev.pdf
9. “Early Electronic Television – Kenyon Transformer Co., Inc.,” available at: www.earlytelevision.org/kenyon.html
10. Wikipedia entry: “Alfred E. Neuman,” available at: https://en.wikipedia.org/wiki/Alfred_E_Neuman
11. Newland, Al, W2IHW, “A Simple 144 Mc Rig for CD Work,” QST, February, 1954, p. 31
12. “Quarter Century Wireless Association Honors ARRL President Emeritus Harry Dannals, W2HD,” available at: www.arrl.org/news/quarter-century-wireless-association-honors-arrl-president-emeritus-harry-dannals-w2hd
13. “Harry J. Dannals,” listing at: <https://www.truepeoplesearch.com/results/name=HARRY%20J%DANNALS&citystatezip=Virginia&rid=0x0>

Minutes of the October 2, 2018 Fair Lawn R.A.C.E.S. Meeting

The meeting was called to order at 6:32 PM by President David, KD2MOB.

Present were: Thom W2NZ, Ed WX2R, Zach KC2RSS and Karl W2KBF.

David announced that FL-RACES has been invited to make a presentation of about 30 minutes to Fair Lawn CERT on December 6. A script will be needed. Topics to be covered may include:

- a discussion of how FL-RACES can be activated and what FL-RACES can/will do when activated;
- how to use 2-way radios;
- use of repeaters to extend range;
- creation of RACES by the FCC;
- the presidential War Powers Act;
- MESH Networking (if Randy WU2S can attend).

David will invite BC-RACES Coordinator John Nashmy N2EVD and Fair Lawn Mayor Kurt Peluso. Ed pointed out that most FL-RACES members are Fair Lawn residents. It may be an opportunity to recruit people from Fair Lawn CERT to obtain Amateur Radio Licenses and join FL-RACES.

Karl wants us to be prepared to field the question of how RACES has helped in the past. Since FL-RACES is new, and has never been activated, Dave will check with John Nashmy N2EVD and/or Mike Lisenco N2YBB for info, e.g. support of NYC marathon and emergency communications in the aftermath of 9/11/2001. Also, RACES has provided local communications support during Hurricanes Francis, Irene and Sandy.

Other Business

Dave thanked Ed for obtaining quotes for FL-RACES shirts. Ten have been ordered. David noted that member participation in FL-RACES activities needs to be improved and is looking for suggestions. Karl suggested that FL-RACES contact Ramsey RACES to find out how they keep their members motivated. Ed suggested recruiting Fair Lawn residents from the FLARC roster.

David noted that the next FL-RACES net will take place on November 14.

Ed moved to adjourn. Thom seconded the motion. David closed the meeting at 7:01 PM.

Submitted by Karl W2KBF,
FL-RACES Secretary

Stan Ekiert K3KKH "A Wireless 3 Way Antenna Switch and Display" To Open FLARC 2019 Speaker Series

The FLARC 2019 Speaker Series opens the New Year with an interesting antenna discussion that has relevance for nearly all amateurs.

Stan Ekiert K3KKH will present his work with a discussion on Friday, January 18, 2019 at the Fair Lawn Senior Center, 11-05 Gardiner Road at 7PM.

All are invited and refreshments will be served.

The presentation describes a home brew project in which a 2 channel wireless receiver and transmitter is used to remotely select one of the three antennas (two dipoles and a wideband vertical) ; switch a balun between the dipoles; and perform all of this from the comfort of his shack. The unit is designed to handle 1500 watts (SSB) and operates reliably from his below-ground shack to a switching panel located in the woods 55 feet away.

Also described will be an in-shack display that uses a second wireless receiver and transmitter to activate LEDs that display which antenna was selected.

A FLARC member, Stan was first licensed as a Novice in 1960 as KN3KKH. Stan later passed the General license to become K3KKH. In 1961 he earned a commercial, First Class Radio Telephone Operators License. He has a BSEE and MSEE from the University of Pittsburgh.

Stan worked for Eastman Kodak Co. in Rochester, NY for over 30 years on government sponsored programs involving imaging sensors and systems for satellites, high-flying aircraft, and under water vehicles operating in coastal and abyssal waters. He demonstrated solid state imaging using photodiode arrays in 1970. The demonstration led to Kodak's entry into CCD imaging sensors and solid state cameras. In 1998 he joined ITT Corp, now Harris Corp, in Clifton, NJ where he worked on SINGARS radio enhancements, GPS navigation payloads, and electronic warfare programs until retiring at the end of 2012. After a 50 year hiatus he returned to the airwaves in 2014 and is thoroughly enjoying QSOs on 80 through 6 meters.

He has published two articles in QST, "A Stealthy Vertical Array", QST, Aug 2016, pp 37-40, and "Weatherproofing a Coaxial Switch", Hints and Kinks, QST, Feb 2017, pp 70-71. A third article entitled "A Simple Way to Cut Light-Gauge Aluminum Sheet" will be published in the February 2019 edition of QST's Hints and Hacks column.

Stop in and learn from an expert!! See you on January !!



QUA

Fair Lawn Amateur Radio Club

1992 Club Officers

President: Lee Bowgren, WK2T
Vice President: Mike Zadoroznyj, KB2HMK
Secretary: Ed Efchak, WX2R
Treasurer: Frank Magyer, N2NHK
Trustee: Harvey Hoffman, WA1YCP (1993)
Trustee: Frank Terranella, N2IGO (1994)
Trustee: Tony Walker, KA2TAM (1992)
Newsletter: Ed Efchak, WX2R



Sponsored by the Fair Lawn Recreation Department

DECEMBER 1992

NUMBER 12

MEETING NOTICE

The December meeting of the Fair Lawn Amateur Radio Club will be held on Friday, December 4th at the Old Library Theatre on River Road beginning at 8:00 PM. Election of officers and trustees for the 1993 year will be held.

ELECTION OF OFFICERS

The December meeting marks the election of officers for the year 1993 and for one trustee vacancy of three years duration. Nominations may again be made during the business meeting prior to balloting. Only currently paid up members of the club have voting rights, pursuant to the club's bylaws.

NOVEMBER MEETING NOTES

The November meeting was called to order at 8:00 PM by President Lee Bowgren (WK2T) with 37 members present. Minutes of the October meeting were read and corrections made to two callsigns before approval. The Treasurer's report was read and approved.

There were no expenses brought forward and there was no correspondence with the club during the preceding month.

Committee Reports: Chris (N2MFH) reported the satellite committee's work nearly done with the antenna installed and some final work regarding equipment acquisition and installation. It was expected that costs for this project would be held within funding guidelines.

Old Business: Tony (KA2TAM) pursued the issue of the purchase of a generator for the club and the inherent need. Chris (N2MFH) questioned the need and mentioned other possibilities for future purchase such as a workbench for construction or for equipment that improved digital communication. President Bowgren asked for discussion with the result that a plans committee for 1993 expenses be established. Chris (N2MFH), Matt (N2QOJ) and Ben (KF2ID) agreed to serve on this committee.

Questions were raised regarding the town's possible purchase of a generator or possible having one to donate based on the club's service to the town in case of an emergency. Pete (K2MHP)

thought that the town did not have equipment to spare but that the town should be queried through Tom Metzler, OEM Chief, about a resolution as well as the Recreation Commission. Ed (WX2R) to follow-up with letters to both

New Business: The holiday party was discussed with date to follow at the December meeting. Ed (WX2R), Harvey (WA1YCP), Steve (N2KBD) and Millie (KB2NGH) among others will coordinate.

Pete (K2MHP) discussed changes in the VE testing program including new rules regarding novice exams and testing of disabled candidates. He also discussed BARA's test dates with FLARC for 1993 and that club's continued support for FLARC's providing testing facilities to enable this to be one of the area's strongest testing programs.

Discussion was held on whether to acquire new callbooks or to go to CD ROM with attendant equipment. Costs, capabilities, and needs were discussed with the matter tabled until more information was acquired. (See accompanying article -ed)

Following new business, nominations for officers for the year 1993 were made. Candidates presented were:

Trustee (3 year term):

Ben Sterman	KF2ID
Matt Ehlers	N2RQX ✓

Treasurer:

Frank Magyer N2NHK

Secretary:

John Cuomo	N2OHT
Matt Ehlers	N2RQX

Vice President:

Al Savio N2OBH

President:

Chris Pappas	N2MFH
Mike Zadoroznyj	KB2HMK

Yes, it was December 1992. It wasn't *The Resonator* back then, it was *QUA*. A lot has happened in over a quarter of a century, but *FLARC* remains the best club around.

A Look Back (2)

NOTES ON THE NET

The Fair Lawn ARC net meets weekly on the ten meter band on 28.350 +/- QRM on Tuesday night at 8:00PM or 0100 UTC. Interest in the net has been flagging. During the week of November 10, the net was really a QSO between John (N2OHT), net control, and myself. I urge the Techs without code to upgrade so that they may participate in the net. Without your support, the net cannot continue. So please, check in...

(Tony—KA2PPO)

DON'T FORGET DUES... A GENTLE REMINDER

December is a time for giving and one must not forget the greatest gift of all — your twelve bucks in dues to support this club. While you may act like Scrooge at this time of year and spend money the rest of it, now is the time to dust out the old wallet or checkbook and help out the accounts receivable department here at old FLARC. Do it NOW, while you're thinking about it. Need a little prodding? What type of slogan works best for you? Perhaps... "only a dollar a month for dues"; "one gift works many wonders"; "thanks to you it works for all of us"; or "pay up or shut up", the plea is the same: please stay current or Ben (KB2EJY) will cut you from the rolls and keep you from reading this newsletter. Twelve dollars...payable to "FLARC"...via Frank (N2NHK)/TNX

DECEMBER VE TESTING DATE

The Crystal Radio Club will sponsor VE testing on December 8 (Note: date may be December 9, call to confirm - ed) from 7-9 PM at the Rockland Fire Training Center, Fireman's Memorial Drive, in Pomona, NY (Rockland County). Walk-in's are ok. Don't forget the usual—two forms of ID, your original and one copy of your current ticket, your original and one copy of outstanding CSCE's and \$5.40 for the exam (except novice). The center is off exit 12 of the PIP—Route 45 to Pomona Rd. to Fireman's Drive. Call Steve at 914-357-0712 or Bill at 914-268-6235 for more information.

The 10-70 Repeater association will hold VE Testing at Don Bosco Prep on Franklin Turnpike, Ramsey on December 12 from 9 AM to 12 Noon. Call Andy - WB2RQX at 201-445-5924 for more information.

Good luck...

CLUB BADGES STILL AVAILABLE

Paul (N2PBZ) reminds the membership that he can still make call badges available for just five dollars. Many members have taken advantage of this offer, a price that is mucho cheaper than what other clubs or fleas charge. Hey, such a deal. Paul reminds that all kinds of badges are possible, not just the call-variety, so see him about it, packet him via KF2GG or N2AUL-4, or give him a call. (Please: Paul needs at least five orders to ensure

placement, and no orders during November or December/TNX)

SOME CLARIFICATION ABOUT HAMCALL

November's meeting got around to discussing the Callbook vs. Buckmaster (in its various forms) so included in this month's letter is some detail on their on-line and CD ROM accessing system and

their most recent prices. While the club does not plug nor endorse specific products, the questions and ensuing discussion almost begs for a clarification in advance of the upcoming meeting.

ALSO INCLUDED IN THIS MONTH'S BAG OF GOODIES...

If you've ever gotten questions about your shack by visitors, the attached certificate (suitable for framing) should handle most, if not all, of the questions.

NO UPGRADES OR CALLSIGN CHANGES THIS MONTH!

CHECKING INTO COMPUSERVE

Don't know how many of you are aware, but CompuServe offers a Hamnet bulletin board on the "Hobbies" subdirectory. It's pretty lively and offers a library of some pretty good software to download. If you use the service, why not drop me a line with your id (I'm 70762,1477) and we'll create a directory.

(Ed-WX2R)

HOPE IT'S NOT TOO LATE...

An item that missed the November deadline: in the category of Swap and Shop; one used PK-232 TNC without cables for \$200...see Coz (N2KWE) via Major Armstrong repeater (222.640 in/224.24 out; PL 107.2 (W2VH)

HAPPY NEW YEAR!!!

No, not yet, but it's not too soon to be thinking about next year's hamfests, the first being the Metro 70cm flea at Lincoln HS, Kneeland Ave, Yonkers, on January 17, 1993 from 9 AM to 3 PM. There are VE exams, and (if you're still hung-over, FREE coffee). It's four bucks to see the junkie, harmonics are FREE, and it'll be warm inside. Talk-in on 440.425 PL 156.7; 223.760 PL 67.0; and 443.350 PL 156.7.

SPEAKING OF HAMFESTS... ANOTHER EDITION OF N2PBZ AND N2QBM "HIT THE ROAD"

The date: October 17. The time: 0700. The place: Dunkin Donuts, Paterson. I contacted N2QBM and after coffee we were off to the Tri-County Radio Assoc. hamfest. While we were the only two FLARC's in attendance, there were hams from BARA, 10-70, and Split Rock in attendance. Nice to see Gene (KJI) there and nice to donate at FT-411E for the grand prize. The wx was good and it was a good show and I can recommend it.

With the hamflea season coming to a close and the holidays approaching, it has been fun and enjoyable for me to write this column for the FLARC bulletin. I can't wait 'till the Spring to get the pen out again and "hit the road". Don't forget Metro 70 in January and BARA on June 5 for starters.

73's and enjoy the hobby and holidays— Paul (N2PBZ)

A Look Back (3)

(Editors note: Thanks Paul for the fine contribution; I've still got one review that hasn't been published and we'll run it in the depths of winter to get the fleamarket blood flowing again. Best.)

FINALLY...A NOTE FROM THE EDITOR

Thanks to all who helped make this year's editions of the newsletter enjoyable to write and, hopefully, fun to read. And a thanks to all who helped produce, reproduce, collate, and distribute the final results. The FLARC letter is not the production of one person; there are others; many, many others who keep me in line (as in deadline) and then there are the unsung heroes in getting it to you every month. Clubs live or die with their letters, it seems...they keep the club up front to its members, and give a feeling of their vibrancy to hams in other clubs or to those without clubs. But final editions are just the result of the editor; the copy must come from the membership so that it reflects the spirit and goodwill of the club. At times, this year's twelve issues have been a fun thing to write; at others (particularly spaced around salt-mine requirements and travel) it's been not so good. The goal for 1993 is to make this the best club bulletin in the area, so thanks in advance for your input and best wishes to you all for the upcoming holiday season.

73 de WX2R

...AND THE PUBLISHER

We gratefully accept all contributions to the newsletter. We prefer them to be in machine

readable form. I can read MS DOS 3 1/2 and 5 1/4 formats, MACINTOSH High Density Disks (1.44 MB), Some CP/M formats (for those who still use them) and can accept copy via modem. I have a Courier Dual Standard Modem that will accept 300 through 14400 bps. Modem transfers can be made by prior arrangement.

I also can receive copy via packet. You can send me a message at N2DZZ-4 on the ROSE Network. The connect paths are:

On N2KBD-3 - 145.51:C N2DZZ-4 V N2KBD-3,201595
On N2DZZ-3 - 144.97:C N2DZZ-4 V N2DZZ-3,201595

N2DZZ-4 is accessible from all ROSE Nodes. If there is a closer node than those mentioned above, please use it and connect using the same format.

After connecting to the BBS send me the copy via a private message using the following command:

SP N2KBD@N2DZZ

You will be asked for the title followed by the text. If you have any questions, please give me a call.

If packet is used, please observe FCC rules regarding content.

We look forward to receiving your contributions to the FLARC Newsletter.

73 de N2KBD

Published by Steve - N2KBD

Fair Lawn Amateur Radio Club
12-56 River Road
Fair Lawn, NJ 07410

The Fabulous FLARC Auction Does It Again!

The day after Thanksgiving is known for shopping -- ham radio, that is! As we go to press it looks as though this year's edition of the auction may have been the best one yet with more than some profit in the till. A total of more than 100 buyers and 23 sellers attending. Twenty-two FLARC members helped to work the floor, kitchen, and reception tables. And a special thanks to Gene WO2W for being both organizer and auctioneer.

Some guests remarked that our little show is not only the best auction but also the social event of the year for many -- a destination to meet, greet, and get the holiday season underway. A special thanks to all who took part!!



L to R: Brad KM2C, Gene WO2W and Zack KC2RSS



The house is packed!!



Brian KD2KLN and Dave KB2JIP manned the food cash registers.



Gene WO2W leads the bidding



Jim W2JC and Judith KC2LTM logged in buyers and sellers



"We have something of real value here...can I get \$1"

Tech Talk

Mr. Watson — Come here — I want to see you.

The modern telephone is a remarkable instrument that has changed our lives in many ways. Most hams carry a Smartphone and use it for voice and data communications.

Some of us, particularly hams who operate mesh networks, are very creative in building private PBXs and telephone networks. For instance, with the help of Mark N2MH, I set up my own PBX (private branch exchange). This PBX computer connects me to my Voice over IP (VoIP) telephones and to the phones and PBXs of other hams in the U.S, Canada and elsewhere.

Mark runs a weekly Monday night conference, call it a “net” if you will, for AREDN mesh operators who have VoIP phones on their systems. The topics are always far-ranging and interesting – just like most amateur radio nets.

Recently, Mark established a connection to another kind of ham radio telephone system – Hamshack Hotline. We talked with two proponents of this project – Denis KD1HA and Willis KB1JFG.

Their website describes the project best: “Hamshack Hotline (HH) is a FREE dedicated VoIP telecom service for the Ham Radio community. Typically, phones are established in hamshacks, EOCs, Clubs & club members, ARES, and other Ham related areas and functions.”

It is not the intention of HH to replace traffic carried over radio in an emergency or other tactical operation, but rather to augment it, by offloading managerial tactical operations and providing a full duplex path for such communications when spectrum is occupied, conditions diminished, or otherwise unavailable.

Tech Talk (Continued)

“HH also supports FAXing of information (with appropriate equipment) which allows tactical offices to share documents & data between tactical locations. In a non-tactical use, HH is an effective resource for off-air troubleshooting when you need to coordinate a troubleshoot of a radio circuit off-air and between multiple SMEs. In addition to all this, conference bridges on the HH network allow large groups of Hams to coordinate & meet in real time anywhere in the world.”

What do you need to join Hamshack Hotline? You need a supported VoIP phone and you need to send a request to the organization with your call sign, the phone model and the phone MAC address. They will issue you a phone number on the Hamshack Hotline network.

The project has an active Facebook group as well.

73,
Randy WU2S



References:

1. Hamshack Hotline: <https://hamshackhotline.com/>

Winter Field Day Is January 26-27 Stay Tuned!



Winter Field Day -- not us, thankfully.

More Check-Ins For The Near and Far Net

Our list gets longer so we need another page --

Name	Call
Aly	AL0Y
Bob	N2HIP
Judith	KC2LTM
Fred	W2ABE
Paul	W2IP
Chris	W2TU
Stan	KC2K
John	K2BIX
Harry	KB3PQP
Paul	K2PJC
Noel	N2OEL
Tony	KA2TAM
Tommy	KD2OBY
Tom	N2AXX
Benjamin	KD2QHI
Marco	KC2ZMA
Nomar	NP4H
Bruce	NJ2BK
Ros	KD2GKA
Tony	N2SIQ
Larry	KD2QFI
Bob	W2REC
Bob	KD2OPT
Bill	KW2H
Dennis	K2DJS
Bill	K2WH
Glenn	KB2MDR
Dave	KB2JIP
Ed	KC8HDI
Ron	WB2JAI
Pat	KD2QLM
Mike	K3FEF

In a Nutshell

What a nutshell, what a year! A visit to W1AW, the earth day remote operating station, winter field day, two street fair participations, summer field day, the complete rebuild of the tower antennas on the Rec Center roof, and just recently our annual ham radio auction. What a year and thanks to EVERYONE in the Club who made this all possible. And we are now the largest radio club in the state! This is all because of all of the unsung heroes who have worked so diligently to make this all happen, not to mention the great team of officers we have with their different areas of expertise. Nuff said, have a great holiday and a safe new year. DE Fred W2ABE

Gene WO2W Recognized With FLARC 2018 Achievement Award

Gene Ottenheimer WO2W was recognized at the 2018 FLARC annual meeting with the first *W2NPT Memorial Award in honor of Frank Leonard* for his long service and dedication to the club. In presenting the award, Van W2DLT noted that "Gene, who knows this club inside and out, remains a mainstay and is much deserving of the award."

Congratulations !!



Gene WO2W receives the W2NPT award from Van W2DLT as Brad KM2C and Randy WU2S look on.

Farewell To Volume 3

Thus we close the final issue of the 2018 Resonator series. My thanks to all who have contributed on a monthly basis -- W2AAB, W2ABE, WU2S, KM2C, KD2KLN and N4GG and contributors who have provided timely copy such as W2KBF, KD2MOB and KD2BMX. Thanks to N2PRT and W3EH and others for many, many pix. And a thanks to all our monthly profiled members who have made deadline and contributed much to the life of this club. Who have I forgotten??

A special thanks to my proof-reader. Jim W2JC, who keeps me honest and grammatically correct. He reads a lot of copy... a lot! Any errors that remain are mine and mine alone. We have come a long way in 36 issues... pushing almost 50 pages of club-generated content. Thanks to you it's easy.

Best wishes for the New Year. Thanks for reading each issue!

DE Ed WX2R