

# Field Day 2022 Memorial Park





# A Fabulous Field Day!!

I would like to thank the members who contributed to making Field Day 2022 a huge success. When members show up to help in whatever way possible, regardless of their limitations, their involvement shows me that they are true FLARC supporters and deserve an applause.

Field Day is one of the biggest ham radio events in North America and it is a huge honor for us to represent FLARC. This event allows us to practice our ham radio skills by planning and implementing our ability to set up stations in the field, simulating an emergency, to make contacts on different bands and modes using emergency power.

This is the time to show our camaraderie and Elmer those who are not familiar with this process. Throughout the weekend we had four HF stations, a 6M VHF/UHF station plus a GOTA and satellite station on the air.

Special thanks to our publicity team, cooking staff, IT team, antenna crew, power distribution team and general helpers. You all did a fantastic job, and all your suggestions and efforts are greatly appreciated. Thanks to the station captains and their hospitality, allowing and assisting operators of all levels to enjoy operating their stations for them – to learn how to use different gear with the hope of making them better ham radio operators. This is the true Field Day spirit in my eyes.

We were able to achieve 14 out of 17 bonus goals which was a great team effort. The biggest improvements this year were the upgrade of the laptops for the four main stations and the network gear. Now we take what we've learned from this year's event and improve for next year.

I hope everyone had a great time and are looking forward to Field Day 2023.

73,

Noel W2MSA

FLARC Field Day Chairman

# FIELD DAY—A Smooth Setup Is the Key To Emergency Preparedness



Ahmed KD2ZOE/HC2AP and Dave KD2JIP doing setup



The 80m dipole heads up for business!!



Jim W2KNG and Ahmed KD2ZOE/HC2AP watch the setup



The OEM tent and a thank you to Ridgewood as always!!



The gateway for 28 visitors, guests, and friends.



Friday afternoon setup made for an easier Saturday.

# **Operating 4A**



Noel W2MSA and James KB2FMH 20m SSB



Van W2DLT and Bruce NJ2BK on 40m SSB



Fred W2AAB in the 40m CW tent



Steve KA2YRA and Jim W2JC on 6m FT8



Roz KD2GKA on fire on 40m SSB!!



L to R: Steve WI2W, Ken W2SCT, and Larry WA2ALY - 20m CW

Who's in charge here? <u>Band captains</u> Van W2DLT: 20/75m SSB, Noel W2MSA: 40m SSB, Steve WI2W: 20/80m CW Fred W2AAB: 40m CW, Steve KA2YRA: 6m FT8 <u>Power Distribution</u> Steve WA2BYX, Madison N5NY <u>Food</u> Skip KD2BVD, Gene WO2W, Judith KC2LTM (Sat. 3-8pm), Fred W2ABE (Sat. 3-8pm) <u>Publicity/Signs</u> Ed WX2R <u>IT/wifi/Logging Network</u> Dave KD2JIP, Jim W2JC

# Fun and Friends In The Wake of COVID-19



Dave N2AAM and Gary N2DVL



Always happiness on Field Day!



L to R: Steve WI2W, Bruck NJ2BK, and Gene WO2W



A hot day and a cool break under the pavilion



Even the Field Day Chair gets a break! Noel W2MSA



L TO R: Nomar NP4H, Gregg N2ECH and Noel W2MSA

## **Guests and Recognition**



L to R: Dave KD2MOB, Madison N5NY, Assemblywoman Lisa Swain, Ed WX2R and Fair Lawn Mayor Kurt Peluso



Red Cross official Bill Kelley NB1LL and Ed WX2R

A total of 27 visitors signed the guest log at the Publicity Tent during Field Day.



Disaster Services Technology New Jersey Region, American Red Cross Would like to acknowledge:

## Fair Lawn Amateur Radio Club W2NPT

For demonstrating the capabilities of Amateur Radio to work in less than optimal conditions

> Fair Lawn, NJ ARRL Field Day 2022

Thank you for being "Red Cross Ready"

"Assemblywoman Swain asked that I relay her gratitude for welcoming her at the Fair Lawn ARC's Field Day and for all that you do!" --Val Kologrivov, Legislative Director/38<sup>th</sup> District of New Jersey

The club also added two new members – Richard Zwebner KD2VXF and Diana Alexseyev (no call), a Fair Lawn resident. Welcome!!

## **Bonus Points Galore!**

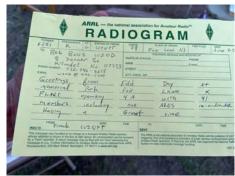
Just a few of the items that will add to our score...



Solar Power



Public Place



Message to SM – Tnx Brian KD2KLN!!



Publicity Tent



Satellite QSO - Tnx Ahmed KD2ZOE/HC2AP

Publicity in Fair Lawn / Glen Rock / Hawthorne *Tap Into*, Fair Lawn *Patch*, FLTV, *QSO Today* podcast, *Southgate Amateur Radio* listing and *Fair Lawn Municipal Announcements* 

Plus Safety submission (Tnx KC2LTM), and Social Media posts (Tnx NK2Q!)

Thanks to all who submitted photos—Nomar NP4H, Glenn KD2MDR, Gene WO2W, Bill WA2WL, George W3EH, Gio K2GIO and Ed WX2R... who did we miss??

We would also like to thank David Mitchell WB2PJH for providing the video monitors we used with the logging laptops, to provide the loggers an easier-to-read screen. He also provided some network equipment which we used for backup.

## We Even Kept Score!!

Despite mixed band conditions, the club's preliminary operating score was 4,514 points. Half (26) of all Field Day attendees operated. A thanks to our band captains for holding the stations together during the event.

CallSign Used : W2NPT Operator(s) : K2ZC, W2NPT, W2MSA, KD2MOB, N2AAM, KB2FMH, W2AAB, W2DLT, W2JC, W2KNG, W2SCT, WI2W, KD2KLN, KA2YRA, WA2BYX, NP4H, KD2GA, KD2GKA, KC2K, N2CG, K2KCC, KC2G, AJ4WD, WA2ALY, WA2FIV, WX2R

Operator Category : MULTI-OP Assisted Category : ASSISTED Band : ALL Power : LOW Mode : MIXED+DIG Default Exchange : 4A NNJ Gridsquare : FN20WX

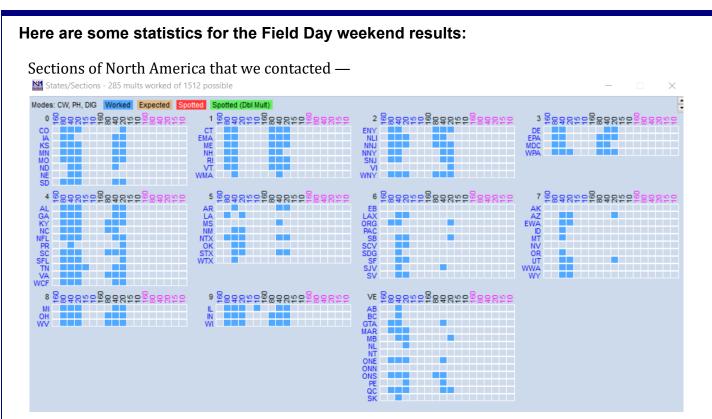
> Band Mode QSOs Pts Pt/Q 3.5 CW 194 388 2.0 3.5 LSB 57 57 1.0 7 CW 444 888 2.0 7 LSB 333 333 1.0 14 CW 176 352 2.0 14 USB 109 115 1.1 21 CW 2 2.0 1 28 CW 2 2.0 1 50 FT8 60 120 2.0 Total Both 1375 2257 1.6



Score : 4,514

A thanks to the following 52 FLARC members who took part in this year's Field Day. It's great to have so many members back and to make for a great weekend!! If we've missed anyone, our apologies and we will add you to our list!!

AD2BS	Vlad	KC2K	Stan	KD2UXF	Richard	NN2H	John	W2SCT	Ken
K2BOB	Bob	KC2LTM	Judith	KD2YEW	Mike	NP4H	Nomar	W3EH	George
K2GIO	Gio	KC2ORX	Robert	N2AAM	Dave	KD2ZOE/HC2AP	Ahmed	WA2ALY	Larry
K2KCC	Kevin	KC2TBD	Ron	N2DVL	Gary	W2AAB	Fred	WA2BYX	Steve
K2UCU	Ken	KD2BRV	Skip	N2ECH	Gregg	W2ABE	Fred	WA2DWB	Bill
K2ZC	Dave	KD2GKA	Ros	N2JLF	Jim	W2DLT	Van	WA2FIV	Robert
KA2YRA	Steve	KD2IIU	Mitch	N2VH	Mike	W2IP	Paul	WA2IIE	Paul
KB2FMH	James	KD2JIP	Dave	N5NY	Madison	W2JC	Jim	WA2WL	Bill
KB2MDR	Glenn	KD2KLN	Brian	NJ2BK	Bruce	W2KNG	Jim	WB2LUC	Faustino
KC2G	Andrew	KD2MOB	Dave	NK2Q	Dave	W2MSA	Noel	WI2W	Steve
						WX2R	Ed	WO2W	Gene



#### Contacts by band

for each operator:

File Statistics Graph								
Operator	3.5	7	14	21	28	50	Tot	Accum
AJ4WD			2				2	2
K2KCC		21					21	23
K2ZC	138		86				224	247
KA2YRA		4				55	59	306
KB2FMH		124					124	430
KC2G						5	5	435
KC2K		12					12	447
KD2GA	2						2	449
KD2GKA	4		14				18	467
KD2KLN	9	11					20	487
KD2MOB			9				9	496
N2AAM			60				60	556
N2CG			4				4	560
NP4H		14	1				15	575
W2AAB		426					426	1001
W2DLT	31	19	16				66	1067
W2JC			21				21	1088
W2KNG			13				13	1101
W2MSA	11	72	3				86	1187
W2NPT		22	7				29	1216
W2SCT	3	36	13				52	1268
WA2BYX		16	8				24	1292
WI2W	53		28	1	1		83	1375
Total	251	777	285	1	1	60	1375	1375

#### Contacts by band & mode for each operator:

Statistics for FD - 6/25/2022 6:00:00 PM - Mode & Band by Operator

Operator	CW 3.5	CW 7	CW 14	CW 21	CW 28	FT8 50	LSB 3.5	LSB 7	USB 14	Tot	Accum
AJ4WD									2	2	2
K2KCC								21	_	21	23
K2ZC	138		86							224	24
KA2YRA						55		4		59	306
KB2FMH								124		124	430
KC2G						5				5	435
KC2K								12		12	44
KD2GA							2			2	449
KD2GKA							4		14	18	46
KD2KLN							9	11		20	48
KD2MOB									9	9	49
N2AAM									60	60	55
N2CG			4							4	56
NP4H			1					14		15	57
W2AAB		426								426	100
W2DLT							31	19	16	66	106
W2JC			21							21	108
W2KNG			13							13	110
W2MSA			2				11	72	1	86	118
W2NPT		2						20	7	29	121
W2SCT	3		13					36		52	126
WA2BYX		16	8							24	129
WI2W	53		28	1	1					83	137
Total	194	444	176	1	1	60	57	333	109	1375	137





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

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www.FairLawnARC.org

July 2022

#### **Member Profile**

NAME: Avanti Borucki CALL: KC3DZG

#### What do you do/what did you do for a living?

USAF Master Sergeant Aircraft Maintenance (Retired) Now, I volunteer to serve God, my Country, my community.

#### How did you get interested in ham radio?

I explored communications in the Air Force during my aircraft maintenance experience. Also, while serving in Civil Air Patrol, it was a ham radio technician course in 2014. I went to the course and got my technician license there.

#### What parts of the hobby most interest you?

The Emergency Services capabilities. Also, speaking with others on the net. Furthermore, the hands-on portion with electric/electronic theory.

Continued on next page.

#### INSIDE THIS ISSUE

- 1 President's Message
- 1 Member Profile
- 17 VE License Testing
- 23 The Way We Were Fred Belghaus W2AAB
- 39 Around the Shack Hal Kennedy N4GG
- 42 Ed itorial Ed Efchak WX2R
- 50 SIG Report Contest Corner
- 43 SIG Report Digital Voice Modes
- 50 SIG Report DX
- 65 SIG Report Portable Ops
- 43 SIG Report Radio Monitoring
- 53 SIG Report Raspberry Pi & Arduino
- 45 SIG Report Satellites
- 45 In A Nutshell
- 52 Theoretics
- 57 Business Meeting Notes

#### **From The President**

#### Dear FLARC Family,

Well, another Field Day is in the books... I wholeheartedly want to thank EVERYONE who participated and made FD 2022 a great success. Many of you know that for FLARC, this is a very important yearly event where we can all get together, work as a team and have fun in the process. Our planning stages begin early in the year and the different elements start falling into place as the FD weekend approaches. So, to all of you who joined in, from those early stages, organizing, preparing the park, food, offering good advice, promotion, equipment, well... I mean EVERYTHING, thank you.

We had a wonderful weekend. Many had the chance to operate, get involved and even see some faces we hadn't seen in a while. I don't want to mention names, but you know who you are and how important your contributions were for this event.

I do want to mention one name though, and that's Noel, W2MSA our Field Day Chairman for this year. He took the challenge and delivered fully. His passion showed during these past few months and took the responsibility seriously, or as we say "grabbed the bull by the horns" and ran with it. We know it was tough at times, but his planning and execution along with those who worked with him gave us a Field Day we wanted and needed after two years of not having it at Memorial Park.

Again, thank you all, and remember, with these events, we not only look to expand our knowledge in the hobby, we look to join in as friends and family to have an experience we can always look

Continued on next page.

#### From The President, continued

back and feel good about. And, we have hit the half year mark, so let's continue to keep FLARC active during the summer.

There are many things to do as a group: POTA, contests, gatherings at the clubhouse, Kawfee Tawks, etc. We hope you can be part of it and keep the mood going.

Also, coming soon, our Auction in November, and... put it in your calendars, June 10, **2023**, will be our Third Annual FLARC Hamfest. Every year it WILL get better. So save the date.

Please, be safe, stay healthy and "I'll see ya on the radio".

#### 73,

Nomar, NP4H FLARC President

#### **Testing... Testing**

On June 10<sup>th</sup> Gene WO2W decided to test a POTA setup at Memorial Park. Giving advice were Noel W2MSA, Ed WX2R, Bill WA2WL and Fred W2AAB. Lots of advice... but did it work??



L to R: W2MSA, WX2R, WO2W, WA2WL and W2AAB

#### News and Notes New FLARC Shirts Are Available

Like all the new FLARC shirts at Field Day? Want one? We know you do! Drop a note to Nomar NP4H and he will order one for you. Spiffy shirts with a pocket and your call sign. What more could you want? Order now!!

#### Welcome back!

The club had a nice surprise a few Tuesdays back with Marv N2JLZ visiting the clubhouse. He was also spotted at the Memorial Day parade. Visit more often!!

#### **Member Profile**, continued

#### What does belonging to FLARC mean to you?

Emergency services and repetition; getting on the air and working with the equipment. I'm a hands-on kind of guy.

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

It is hard for me to say as I have only recently become a member of the club.

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

I would like to become a VE and mentor others. My favorite things in the world are God & Country, people, aviation and geography.

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

None at the present time.



Avanti KC3DZG





## Special Interest Groups:

- Portable Ops: POTA, SOTA, etc.
- DX: Chase the rare ones
- Digital Voice: DMR and other digital modes
- FT8: And other WSJTX modes
- Satellite: Also, for weather GPS interests
- Monitoring: SWL and other general listening
- And others to come!!



# Plus:

- Monthly VE Testing
- An active repeater W2NPT (linked with NJ2BS)
- New equipment in the shack
- New antennas on the roof
- A five-position operating clubhouse
  - Over 72 consecutive months of speaker programs to learn and grow.

# That's why FLARC is the best club around!!

Join us in our in-person and in our Zoom Room for more activities, speakers, and projects to come! FLARC is following Covid-19 government guidance closely and all events and activities will

adhere accordingly to the latest advice.

**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, except when there is a Kawfee Tawk scheduled, from NLT 6:30 PM. Business meetings are the first Friday of the month at 7:30PM.

2022 Officers, Committees and Assignments						
President	Nomar Vizcarrando	NP4H				
Vice President	David Corsello	KD2JIP				
Treasurer	Bruce Kalogera	NJ2BK				
Secretary	David Gotlib	KD2MOB				
Trustee	Ed Efchak	WX2R				
Trustee	Fred Wawra	W2ABE				
Trustee	Brian Cirulnick	KD2KLN				
Field Day	Noel Pagan	W2MSA				
ricia Bay	Steve Rosman	KA2YRA				
Manahan Camilaaa	Steve Wraga	WA2BYX				
Member Services Health & Welfare	Judith Shaw	KC2LTM				
	Ed Efchak	WX2R				
Marketing	Nomar Vizcarrando	NP4H				
mancenny	Jim Cooper	W2JC				
	Dave Corsello	KD2JIP				
Program	Ed Efchak	WX2R				
Video/YouTube	Thom Guida	W2NZ				
Social Media	Thom Guida	W2NZ				
	Dave Marotti	NK2Q				
Photographer	Giovanni Lucero	K2GIO				
	Gene Ottenheimer	WO2W				
Community Relations	Dave Gotlib	KD2MOB				
	Ed Efchak	WX2R				
Here for the set of Arrestine	Gene Ottenheimer	WO2W				
Hamfest and Auction	Bill Leger Bruce Kalogera	WA2WL				
		NJ2BK				
Education	Bill Kelly Earle "Skip" Barker	NB1LL KD2BRV				
Education	Paul Brennan	N6FB				
Net Scheduler	Brian Cirulnick	KD2KLN				
Contests	Lowell Vant Slot	W2DLT				
FLARC Historian	Fred Belghaus	W2AAB				
Webmaster	Jim Cooper	W2JC				
Webhlaster						
	Jim Cooper Paul Cornett	W2JC W2IP				
Technical	Brad Kerber	KM2C				
	Fred Wawra	W2ABE				
RACES/ARES Director	Dave Gotlib	KD2MOB				
RACES/ARES Liaison	Steve Wraga	WA2BYX				
Newsletter Editor	Ed Efchak	WX2R				
Newsletter Publisher	Jim Cooper	W2JC				
Quartermaster	Brian Cirulnick	KD2KLN				
W2NPT Trustee	Paul Cornett	W2IP				
NK2H Trustee	Ed Efchak	WX2R				
President serves as ex officio to all committees						

### June 12<sup>th</sup> Radburn Street Fair

An iffy weather day turned into a successful day for FLARC at the (finally back again) Radburn Street Fair.

Larry WA2ALY became Morse Man, entertaining a constant flow of children and adults. Nomar NP4H ran his QRP HF station and Jim W2JC brought along his new nifty DX Engineering TW2010 portable antenna.

Joining along were Thom W2NZ, Stan KC2K, and Ed WX2R for a really busy day. Being placed alongside the Borough police and fire departments did not hurt. A great day, with the most visitors ever.

Thanks to all!!

Next Street Fair is in October on River Road.



L to R: Jim W2JC, Ed WX2R, Larry WA2ALY and Thom W2NZ



Larry WA2ALY works Morse Magic at the Street Fair



March 30, 2022Ed Efchak WX2RWin the Civil WarApril 15, 2022Sandipan Basu Mallick VU3JDXThe Union of Asian DX'ers and DX'ing From IndiaJune 22, 2022 (Wednesday)Frank Donovan6 Meter Antennas and PropagationJune 17, 2022Gordon Beattie W2TTTSetting Up Your Amateur Radio StationJuly 15, 2022Gordon Beattie W2TTTSetting Up Your Amateur Radio StationJuly 15, 2022Jose Vincennes NP4GDX'peditioningSeptember 16, 2022Howard Bernstein WB2UZEHow to learn and have fun with Morse CodeOctober 5, 2022Paul Cianciolo W1VLFRFI In Your Shack and Around The House	Date	Presenter	Program
February 26, 2022 (Saturday)Barry Feiurman K3EUINANO VNA Part 2March 18, 2022Charlie Cebula AC2ZUHow the Telegraph Helped the North Win the Civil WarMarch 30, 2022Ed Efchak WX2RThe 2022 FLARC Member SurveyApril 15, 2022Sandipan Basu Mallick VU3JDXThe Union of Asian DX'ers and DX'ing From IndiaJune 22, 2022 (Wednesday)Frank Donovan6 Meter Antennas and PropagationJune 17, 2022Gordon Beattie W2TTTSetting Up Your Amateur Radio StationJuly 15, 2022Jose Vincennes NP4GDX'peditioningSeptember 16, 2022Tom CrowleyAn Introduction to Radio AstronomyOctober 21, 2022Paul Cianciolo W1VLFRFI In Your Shack and Around The House November (Date TBD)Bob Zanotti HB9ASQThe Swiss Short-wave Merry-Go-Round	January 21, 2022 (Friday)	Bob Antoniuk N2SU	The History of Call Signs
March 18, 2022Charlie Cebula AC2ZUHow the Telegraph Helped the North Win the Civil WarMarch 30, 2022Ed Efchak WX2RThe 2022 FLARC Member SurveyApril 15, 2022Sandipan Basu Mallick VU3JDXThe Union of Asian DX'ers and DX'ing From IndiaJune 22, 2022 (Wednesday)Frank Donovan6 Meter Antennas and PropagationJune 17, 2022Gordon Beattie W2TTTSetting Up Your Amateur Radio StationJuly 15, 2022Gordon Beattie W2TTTSetting Up Your Amateur Radio StationJuly 15, 2022Jose Vincennes NP4GDX'peditioningSeptember 16, 2022Howard Bernstein WB2UZEHow to learn and have fun with Morse CodeOctober 5, 2022Tom CrowleyAn Introduction to Radio AstronomyOctober 21, 2022Paul Cianciolo W1VLFRFI In Your Shack and Around The HouseNovember (Date TBD)Bob Zanotti HB9ASQThe Swiss Short-wave Merry-Go-Round	February 18, 2022 (Friday)	Matt Heere N3NWV	POTA – Get Involved!!
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October 21, 2022Paul Cianciolo W1VLFRFI In Your Shack and Around The HouseNovember (Date TBD)Bob Zanotti HB9ASQThe Swiss Short-wave Merry-Go-Round	September 16, 2022	Howard Bernstein WB2UZE	How to learn and have fun with Morse Code
November (Date TBD) Bob Zanotti HB9ASQ The Swiss Short-wave Merry-Go-Round	October 5, 2022	Tom Crowley	An Introduction to Radio Astronomy
	October 21, 2022	Paul Cianciolo W1VLF	<b>RFI In Your Shack and Around The House</b>
December 15, 2022 TBD About The ARRL: An Update	November (Date TBD)	Bob Zanotti HB9ASQ	The Swiss Short-wave Merry-Go-Round
	December 15, 2022	TBD	About The ARRL: An Update





Hidetsugu Yagi's 130th Birthday Google Doodle

#### Follow FLARC ON THE WEB

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

Twitter: @FairLawnARC

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

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

Website: <u>http://FairLawnARC.org</u>

# SIG Group Participation as of June 30, 2022

Here is an update on the roster of Special Interest Groups...some groups have increased in size during the last month:

EMCOMM	11
Contesting	12
Digital Voice	30
Monitoring	25
DX	18
FT8	20
Satellite	17
Portable Ops	44
Raspberry pi	8

FLARC General 162

Sign up for a group... or ...

why not start one?

Contact webmaster@FairLawnARC.org if you would like to start a new Special Interest Group.

# The Clubhouse Is Open FOUR Fridays In July!! And Tuesdays also...

Date	Clubhouse Status
July 1	<b>OPEN</b> – Business Meeting
July 8	OPEN
July 15	CLOSED FOR KAWFEE TAWK
July 22	OPEN
July 29	OPEN
July 29	OPEN



# And Stand-by for Other Open Days or Evenings!

The club will follow all borough COVID-19 requirements for these events.



#### The 2022 FLARC Hamfest – "Cool by the Pool"

Perfect June weather marked the start of the second (annual) FLARC Hamfest on June 4<sup>th</sup>. We were rewarded with a record number of sellers (41), buyers (more than 250) and sponsors/donors than in 2021. In a year where hamfest attendance has been "soft," we certainly ran a contrarian event. More than a few vendors told us that we do it right and plan to return in 2023. Thanks to all our volunteers for the hard work that paid off.

So... mark your calendar — June 10, 2023. Same place and better than ever.



A busy morning with buyers!



A lucky winner with Bill WA2WL and Gene WO2W



More buyers... a record number of sellers!



L to R: KC2ORX, WX2R and NP4H at the sponsor banner



Nomar NP4H and Noel W2MSA show the club colors



Treasure or boat anchor – you decide!!



#### AMATEUR RADIO TESTING BY THE FAIR LAWN AMATEUR RADIO CLUB

On July 16, 2022 the Fair Lawn Amateur Radio Club will continue amateur radio test sessions on a modified basis.

These sessions will be held at the Fair Lawn Amateur Radio Club. The location is at 10-10 20th Street, Fair Lawn, NJ

The session starts at 9:15 AM.

A document will be provided to you prior to the date to indicate the time assigned to you.

You must have it with you to take the test.

#### Prior to Testing:

Send an email to <u>wo2w@arrl.net</u> requesting to book your spot.

## PRE-REGISTRATION IS REQUIRED - NO WALK-INS ACCEPTED.

#### Upon Arrival:

You must have a government issued ID such as a valid driver's license or passport, a filled out Form 605, and **3 filled out copies of the FCC CSCE form.** 

#### Please Bring With You:

- You MUST bring and WEAR personal PPE items including a face mask.
- 2 pens and 2 pencils. None will be provided to you, due to possible virus transmission.
- Your FRN number, and (if licensed) a copy of your ham license or a valid CSCE (Certificate of Successful Completion Exam).
- Additionally, the **\$15.00 exam fee**. This is payable in cash (exact amount is a must).



# How to Design a Ham Shack Desktop

# 2022 FLARC July 15<sup>th</sup> "Kawfee Tawk™" Series

Ever look at your shack setup and said: "I wish I could do this better!" or better yet, "How can I maximize my ham shack so that it does what I need it to do?"

On Friday, July 15th, Gordon Beatty W2TTT will walk us through the hints and kinks of good ham station design. He will be focusing on the areas where every Radio Amateur can get some benefit from a little simple human and electrical engineering for their ham station. For those of us old enough to remember, this is the kind of stuff that was in the ARRL Station and Operating Manuals back in the old days.

This is a great how-to for old and new ops. While Gordon will be using pictures from his new home QTH, he will make sure that someone with a couple of mobile rigs stacked on the edge of a windowsill of their apartment will have a familiarity with how they can better their environment.

This *Kawfee Tawk* session begins at 7:30 PM EDT and is available here:

Join Zoom Meeting			PHONE users only:
	Meeting ID:	838 6036 5555	838 6036 5555
	Passcode:	SHACK	798399

Gordon has been licensed for 47 years (his prior calls were WN2CAM, WB2CAM & N2DSY) and is an ARRL Life Member. His primary interests are VHF/UHF/Microwave weak signal work, Public Service, Amateur Radio Emergency Data Network (AREDN) mesh high-speed data networks, building, rag chewing and operating demonstration stations and activities for Scouts, other youth, and adults. Gordon operates HF, VHF and UHF at home, portable and mobile using FT8, CW, PSK31, Packet, SSB, FM, Fusion and DMR on bands through 5.8 GHz. He is also a member of the Bergen Amateur Radio Association, Fair Lawn Amateur Radio Club, the American Red Cross Amateur Radio Club, the Suwannee County, Florida ARES, the Madison County Amateur Radio Club (FL), the Columbia Amateur Radio Society (FL), the Crystal Radio Club (NY) and the Venture Crew 7373 Amateur Radio Clubs.

In addition to experimenting and rag chewing, Gordon likes to provide communications service to the public. Gordon is married to Nancy N2FWI, who holds a General Class license, and they have three adult sons James KC2SQV, John KC2NZC and Jeremy KC2VBS, who are Eagle Scouts and hold Technician Class licenses. His interest in radio and telecommunications continues as he and Nancy establish their new residence in rural Suwannee County near Live Oak, Florida where they are building a new Amateur Radio station with capabilities across the RF spectrum extending to 47 GHz. EMCOMM, experimentation and inventing are key elements of this station which will include an antenna test range and a number of towers and antennas to support these activities.

This should be an interesting and informative night and is a must for all those interested in how to operate better in great solar times. So, save the date – **Friday, JULY 15<sup>th</sup> 2022** at 7:30 PM EDT -- for this important and always timely discussion. For more information, please visit the club's website at <u>www.FairLawnARC.org</u> or call 201-791-3841.

#### When you log in, please show your FIRST NAME and your CALL SIGN.

For more information, please visit the club's website at <u>http://www.FairLawnARC.org</u> or call 201-791-3841.

#### **Ever Been to W1AW?**

We've been invited to visit ARRL Headquarters in Newington for a site visit and to operate W1AW.

If you have never been there, it is a fun day and a chance to always say that you operated there.

We have no date scheduled but are looking at something in the July-September window.

If you are interested in going, drop Ed WX2R an email at wx2r@arrl.net and he will start a list and look for a possible date.

**Special Note:** As non-profit, the IRS now requires that we disclose annually the use of paid lobbyists to our members and indicate approximately what percentage of their dues goes toward that. 0% of your 2021 dues payment will be used by the club to directly pay a lobbyist firm to lobby on behalf of all our members regarding pending legislation that impacts our hobby.

#### **FLARC News from Florida**

Here is a quick update on two works in progress.

First, regarding our proposal to become a partner or sister club with the West Palm Beach Amateur Radio Group (WBPARG). Their Board of Directors has approved the relationship and it must now go to the full membership for approval. Expected the end of June or early July.

Second, with regards to POW MIA Day in September... the club has reached out to the Borough's Veterans Liaison and we are awaiting information as to how to proceed.



#### A Donation Thank You!

A large measure of thanks to Steve Cohen of Fair Lawn for his generous donation of equipment to the club.

Steve is the son-in-law to "Hoff" Hoffman WA2KVD, a past FLARC member.

Thanks, Steve!!

#### **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://news.FairLawnARC.org http://swap.FairLawnARC.org http://tech.FairLawnARC.org http://youtube.FairLawnARC.org

#### https://groups.io/g/FairLawnARC



#### **Online License Testing!**

Are you looking to get your license or upgrade without leaving your home? All you need is a laptop computer with a video camera.

There are number of sites listed on <u>hamstudy.org/sessions</u> These folks will walk you through taking an exam online.

I have worked with both WB5QNG and AA7HW. If you have any questions, please contact me at <u>mStevenk2sab@gmail.com</u>

73, Steven Boston K2SAB

#### FLARC Enters ARRL Grants Program Competition

This year, a new ARRL Foundation Club Grants program, funded by a grant from Amateur Radio Digital Communications (ARDC), has made \$500,000 available to radio clubs through grants of up to \$25,000 for projects that advance amateur radio in the community. ARDC is a California-based foundation that makes grants to projects and organizations that follow amateur radio's practice and tradition of technical experimentation in both amateur radio and digital communication science.

I am honored to serve on the FLARC Grants Committee with two tremendously talented individuals, ARRL Affiliated Club Coordinator and FLARC member, Lee Smith KD2DRS and our club Treasurer, Bruce Kalogera, NJ2BK. We were tasked with submitting grant applications to ARRL on behalf of FLARC. A deadline of June 30 made for an extremely aggressive timeline with two other Club efforts competing for our time — the FLARC Hamfest and Field Day — but the team was up to the challenge.

Our approach was to first solicit program ideas from the FLARC Board, our Special Interest Group (SIG) leaders, and the Grants Committee, and choose ones that seemed most likely to be approved. Great ideas and guidance were offered which I look forward to seeing fleshed out in the future. But one individual rose to the occasion with a program idea that is brilliant in concept and utterly professional in presentation -- our Treasurer, Bruce Kalogera. Bruce designed a program for promoting amateur radio in our community through Technician licensing classes, follow-up training on basic operating procedures and free 2-year memberships to FLARC and ARRL. I am confident that his application will result in the requested \$25,000 being granted to the club.

Round One of the ARRL Foundation Club Grants program is now finished; it promises to be a remarkable success for FLARC. There will be a second round later this year with an application deadline of mid-September 2022. If you are a FLARC member who has an idea for a program that you feel is worthy of consideration for a club grant, please feel free to share it with me, Dave Corsello KD2JIP <u>kd2jip@gmail.com</u>. Thank you, Nomar and FLARC for the opportunity to participate in this exciting program.

https://www.arrl.org/club-grant-program

https://www.arrl.org/files/file/Foundation/Club%20Grant% 20Presentation%205-4-2022%20pdf.pdf

#### Ham Radio Is Contagious And It Won't Make You Sick!!

#### Club Apparel — Get Them While They're **RED**!

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! Great for Field Day!

Don't forget.... they're easy to order. Go to <u>www.hamthreads.com</u> or visit <u>http://apparel.FairLawnARC.org</u>

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 standard club shirt color.



It's easy to spot FLARC members with their red club shirts !

# 2022 FLARC Nets On The W2NPT Repeater:

Near and Far Net Mondays at 8PM

Health and Welfare Net Wednesdays at 7PM

W2NPT and NJ2BS Repeaters

#### Pandemic Theatre: Mid-Winter Edition

Yes, it is mid-Summer here but in the Southern Hemisphere — you guessed it. With many of us tuning into the BBC Mid-Winter Broadcast to Antarctica, it provides an opportunity to look back at one of the century's greatest explorers — Richard E Byrd. This movie was shown in 1935 and covers the Winter he spent alone in the Antarctic. About 33 minutes.

https://www.youtube.com/watch?v=fnmxsjprhM&list=PLqqqqZrD37h4x6UA7YtBiuKhDk45n8oo

#### Remember: Ham Radio Is A Contact Sport!

#### 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 as 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 is sponsored by the Borough of Fair Lawn.** The club meets every Friday, except when a Kawfee Tawk is scheduled, at 6PM 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 at the club, and on Zoom.

#### Visitors <u>ARE ALWAYS</u> 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 over one hundred fifty paid members. Dues are currently \$25 per year; \$20 for new members. Content and opinions expressed bv contributors do not necessarily reflect the policies of the Fair Lawn Amateur Radio Club, its Officers or members. Contributors grant express permission to FLARC to distribute articles in this or any issue of The Resonator. Authors also grant express permission for the use and/or repurposing of these articles, in part or in full, in other publications with credit to the original author and to The Resonator. All material is copyright ©2022. Do not copy or reproduce any of this material without the written permission of FLARC.

#### A Weekly Welfare net ...

The Health and Welfare Umbrella Net Wednesdays 7PM Local W2NPT and NJ2BS Repeaters Open To All

#### **MARKETING COMMITTEE NEWS**

The Publicity Committee is now the Marketing Committee and is working to spread the good words about FLARC and help get all members involved. Interested in joining? Drop a note to wx2r@arrl.net.



FAIR LAWN'S COMMUNICATIONS CENTER! With Our Antennas On The Roof!



## Blood Donors Needed In This Time Of Emergency

The Red Cross and related organizations are in great need for blood donations since most corporate blood drives have been cancelled. This has become acute recently. Especially in these days of Covid.

<u>Communitybloodservices.com</u> has a network of offices open during the week and would really welcome folks making appointments to donate blood.

Thanks!



#### **Certainly In My Back Yard!**

Larry, WA2ALY posted recently about his backyard radial farm.

"This is what the roto-tiller job looked like.

A diameter of 51 feet and 2 inches deep. (2043 square feet).

This was done in preparation to dig 120 trenches each 25 ft long, 2 inches deep. So as to bury 120 individual RADIAL wires."



Larry WA2ALY rototilled QTH

## FLARC June 18, 2022 VE Testing Results

With VE testing back on schedule, Gene **WO2W** reports the following results:

Name	Call	License Earned
Eric Laessig	KD2ZSJ	Technician

Testing for July will be at the Fair Lawn Recreation Center - with "Covid Restrictions."

See page Error! Bookmark not defined. of this Resonator copy, and also the

#### Ten Special Interest Groups [SIGs] Already Formed: Any Others?

Post lockdown, club interest continues to grow in the SIGs. So far, we have the Radio Monitoring Group and a Digital Voice Modes, group thanks to KD2DRS and NP4H. There is also an FT8 SIG. And a POTA SIG headed up by Noel W2MSA plus a DX SIG. Also EmComm (Emergency Communications) and the Contesting SIG, managed by Van W2DLT. And the Monitoring (SWL) SIG.

Recently formed: the Raspberry pi and Arduino SIG.

Other possible groups, from the member survey, include:

- Radio Propagation
- Antennas and how they work
- Kit building
- Ham radio software)

Anyone interested in leading any of these groups...?

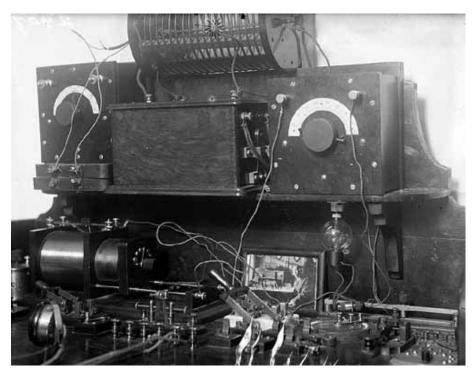
Please contact webmaster@FairLawnARC.org



## The Way We Were By Fred Belghaus W2AAB

"History is... now"

We radio amateurs have plied the airwaves for nearly 120 years. We've been allocated wavelengths as long as 2,200 meters to wavelengths as short as 0.1 centimeter or less. A lot has changed since our forefathers pounded out tiny signals with a Ford spark coil on who knows what frequency, and a wire antenna of random, often indeterminate length, straining their ears digging down in the deep sea of silence with headphones and poor semiconductor detectors without amplification, to hear other tiny signals.

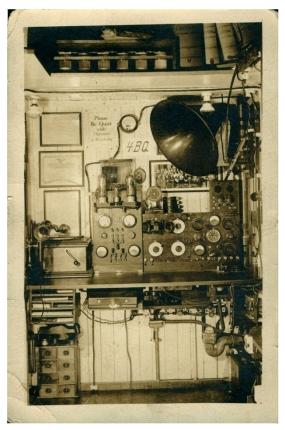


Early amateur station, ca. 1914 Image: <u>http://oldpassions.com/Ham-Radio.htm</u>

Over the years, there have been many technical developments, adding more and more modes to work with, better receivers and transmitters, many more antenna options, and many new areas of specialty in our beloved hobby. Regulations have changed,

Continued on next page.

too, with the outlawing of spark, the addition of new bands, the partial reallocation or complete elimination of others.



Station 4BQ, Gordon Hight, 1 kW, 150 to 25,000 meters, Rome, Georgia, 1922

Image: eBay



A.R.R.L. Headquarters station, W1MK, located at Brainerd Field, Connecticut, 1934.

In 1936, a flood destroyed the station, and after the death of League President Hiram P. Maxim, his call, W1AW, was obtained as a memorial, which would become the permanent call of the A.R.R.L. Headquarters station. The card is signed by operator E.V. Battey, W1UE



W2PPT, Cliff Paterno, Ozone Park, NY, 1946

By the 1940s, we see a mix of homebrew and commercial gear. The homebrew transmitter (in rack) ran a 6L6 to an 807, driving a pair of 1625s, at 82 Watts input. The receiver is a Hallicrafters SX-28 with matching Hallicrafters speaker. The antenna was a 4 element 10 meter beam.



By the 1950s, most amateur gear was commercial. Here, Jack Williams K2JFV of Rochester, NY proudly displays his Central Electronics 20A, an early SSB exciter, along with an Astatic D-104 "lollipop" microphone, a Hallicrafters SX-99 receiver and an E.F. Johnson Ranger I. Also in the shack is a Paco 'scope.



Harry, WA2LYT was originally only on AM phone. By 1963, he had acquired a Hallicrafters HT-32 SSB exciter, paired with Hammarlund HQ-180 and Drake 2-B receivers, and with an E.F. Johnson "Desktop Kilowatt" to provide that big signal he once had. There isn't a single piece of homebrew equipment in sight. Harry was a "fixture" on 75 meters in the early '60s.

Jumping ahead to the present, here's the station of VY2NX, Prince Edward Island, a recent contact on 6 meter SSB:



VY2NX's station, on qrz.com

By now, we see not only all commercial equipment, but a strange interloper in this ham shack... a computer... with four screens!

Despite these changes, the nature of amateur radio has not fundamentally changed. We still enjoy communicating with other human beings by radio.

\*\*\*\*\*

In early June, I read a posting on the QRP-L Mailing List, an email group devoted to low power operating using 5 Watts or less on CW and 10 Watts or less on phone. The posting was rather unconventional, but it was well written and held my interest all the way to the author's concluding remarks. I contacted the author, expressing my appreciation for his insights and writing skills, and obtained his permission to reproduce it here.

So, this month, I'm stepping back from the spotlight for awhile, and allowing the author of that posting to take center stage. I'm sharing his thoughts with you in the hope that they will spark some further thought and discussion.

You may recognize the author's name and call, and well you should. He's Wayne Burdick, N6KR. But if you don't know him, here's his bio:

Wayne is Chief Technology Officer for Elecraft, and principal designer of the Elecraft transceivers K1, K2, K3, K4, KX1, KX2, and KX3, (so he's hardly a "Luddite.") Prior to founding Elecraft with Eric Swarz, WA6HHQ, Wayne created the Wilderness Radio kits (NorCal 40A, Sierra, and SST), refinements of his NorCal QRP Club designs. Wayne and Eric have both been inducted into the QRP Hall of Fame, and jointly received the A.R.R.L.'s Technical Excellence Award in 2001 for their Elecraft designs. Wayne holds a degree in Cognitive Science from U.C. San Diego, and has worked for many years as a software/hardware engineer, specializing in user interface design. In his spare time he writes fiction, goes on long hikes, and plays acoustic guitar.

Now, let's hear from Wayne. I just added some pictures to his original post...

#### **COLLECTING STAMPS VS. SEASHELLS**

And why this is not wildly Off Topic

During my childhood, I watched my dad indulge his hobby: collecting stamps.

Most of the time his collection hibernated in two large photo albums on a shelf in the family room, seemingly forgotten.

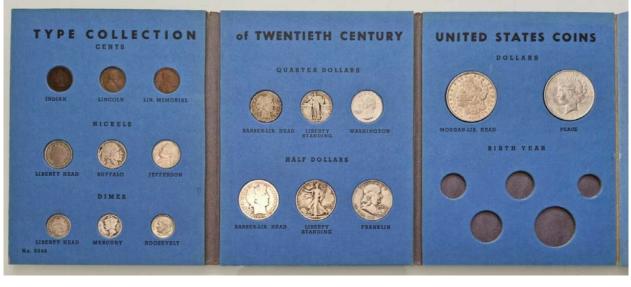
Then once month, by prior а arrangement, he'd receive a package of envelopes and postcards in the mail. Each item sported one or more cancelled Dad would fill a bowl with stamps. water, soak the stamps until they floated free, then lay them on a piece of wood by a window to dry in the hot San Diego sunshine. Once they were dry enough to handle, he'd pull out the albums and cement the stamps to blank pages in perfect rows and columns. One album held foreign stamps, the other domestic. I'd admire their colors and artwork.



Page from old stamp album - Image: eBay

Sometimes I'd ask him questions about their monarchs, palaces, and currency denominations. But dad seemed most interested in the fact that they were each slightly different—their social, political, or geographical nature was secondary.

When I was six or seven I started collecting coins in binders, emulating the lazy rhythm of my dad's pastime. This didn't last long, because I was soon consumed by an obsession with seashells in their varied species.



Blue coin binder, early 1960's - Image: eBay

I lived in the perfect place for it. San Diego is famous for its beaches and coves, and I took full advantage of both. On summer weekends, my mother would take my friend Jeff and me to La Jolla, then let us roam while she stretched out on a lawn chair to read and tan. She was oblivious to the risks we were taking.

We found three effective ways to collect shells in their native environment, with escalating levels of difficulty.



Image: eBay

First, you could arrive at the beach earlier than anyone else, at low tide, and scavenge for shells among the piles of pebbles and seaweed. This you would do barefoot, while dodging sharp stones, jellyfish, and rogue waves.





Second, you might wander far out onto the sandstone formations to find tide pools that hadn't been raided. The substrate was slippery with moss pockmarked with littoral snails, mussels, and keyhole limpets; and periodically doused by breakers.

Yet with luck you might reach deep into a bucket-sized hollow and find a wellpolished chestnut cowrie among the anemones and hermit crabs. Indians used these egg-shaped cowries as wampum, and considering their beauty and diversity of form, it's easy to see why.



Image: eBay

These two methods soon gave way to what Jeff and I really craved: searching the ocean floor itself for living mollusks. Once we'd both acquired masks, snorkels and fins, there was nothing to stop us, and no one to teach us how to do it right.

We learned the hard way, swallowing seawater and popping our eardrums in pursuit of the deepest free dives we dared attempt. This was probably no more than 15 or 20 feet. But when you're ten years old, this made you the next Jacques Cousteau. We swam with bright orange garibaldis, snapper, and the occasional bat ray as we scanned the coral shelves for whelks, queen's tops, turrets, cones, and other spectacular univalves.



Image: eBay

Now, we could have collected shells the easy way, by simply purchasing them from the Cove Gift Shop like everyone else. We considered this cheating, though, taking pride in our arduous adventures. Our treasure was hard-won.

A few years later, armed with a ham license, I began a new collection. I worked stations all over the world first in CW mode, then SSB. Even as a teen I drew a parallel between seashells and DX, not just in terms of rarity or diversity, but in the visceral nature of the hunt.

CW is not an easy skill to master. SSB also requires considerable skill with equipment, on-air technique, timing, and etiquette. Both allow the freedom to carry on short or long QSOs, over wide segments of spectrum, while expressing your individual style. Both can be pursued at home or in the field, even operating handheld, no computer required.

CW and SSB signals are there if you know where and when to look. They're hidden within atmospheric noise, like colorful shells of all sizes hidden by grains of sand. The hunt is still rewarding these days, but more difficult, thanks to other preoccupations.

Speaking of which, if you get tired of collecting stamps, let's say with your VFO parked at 14.074 MHz, wander up or down the band and take a crack at doing things the hard way, using other modes. Listen. Search. Wade knee-deep among the hazards, taking chances, employing new skills.

Better yet, become a mollusk. Get outdoors and call CQ from a wild, windy perch. Or from home, aim your beam in a new direction and pound some old brass.

*Let everyone else collect you.* 

73,

Wayne, N6KR

#### \*\*\*\*\*

And that's the way it's been with me, too. I started collecting stamps, coins, and paper money of the world. I started reading serious books when I was ten years old, along with technical magazines about radio and electronics. But once I discovered the beauty and diversity of *old books*, I became a bibliophile. I began collecting beautifully bound volumes from the 19<sup>th</sup> Century, their pages filled with gorgeous engravings, their gold stamped bindings adding a certain dignity to my book shelves that modern books, especially those awful, cheap paperbacks don't have.

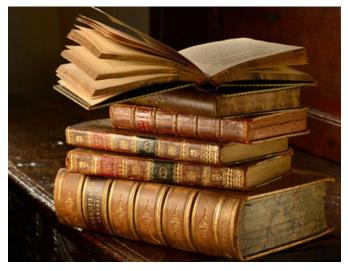


Image: https://stringfixer.com/tags/casebound

Of course, I didn't just collect them, I devoured their content. I was transported back to earlier times, and gained an appreciation for past ages and for the artistry and craftsmanship of those who didn't have our "modern tools" of mass production. I even dabbled a little in the beauty of medieval manuscripts, written by hand on parchment; at least, a leaf from a 15<sup>th</sup> Century Psalter, which was all that I could afford. I studied typography, and the art of the book. I discovered a vast universe that most people don't know exists. I swam deep in the waters of the past, and, through readings in history, literature, and early science, learned to appreciate the work of giants who came before, and whose work led to things that today, we take for granted.

But the greatest thrill was the hunt itself. I scoured the second hand bookstores, traveling to New York's "Fourth Avenue Book Row" with my dad, to go on a hunt for ancient treasure. I rummaged about, down narrow corridors of dusty books, and climbed rickety ladders to the tops of shelves, where I'd slowly work my way down to floor level, seeing an interesting looking brown leather book now and then, some dating from the 1700s, and carefully opening it, to see what mysteries it held. One store, long gone, was Schulte's. He specialized in "fine bindings" and 19<sup>th</sup> Century illustrated editions, and I was in my glory.

Vacationing in New England, I hit the antique shops for my searches, sometimes finding treasure, but finally hitting pay dirt in a red, wood frame building in Rutland, Vermont, by the name of Charles E. Tuttle Co. Here, were row upon row, room upon room, floor upon floor of books dating back to the 1600s, a bit dusty, but otherwise in good condition, at prices that would be considered ridiculously low, today.



Dad and me, Tuttle's Book Store, Rutland, Vermont, 1961

I delved into the stacks, spending hours there, enjoying the ambience, the texture, the distinctly musky aroma of books hand bound in brown leather. After I had accumulated a large carton of treasures, I was obliged to shorten my stay only because my dad's feet were killing him from standing all those hours. The volume in my hand in the picture, by the way, is *History of the Republic of America*, published in New York City in 1831. I still have it.

We take too much for granted today. We turn on our state-of-the-art plastic box, most of us having no idea what's inside it and what complex electronic wizardry is being performed there. Yet, we boast of having the "top license," and keep a colorful certificate on the wall testifying to our "great achievement." But too many of us don't even know Ohm's Law, or think it's the name of a TV cop show. It's so easy, now; much too easy. We've lost touch with reality. Ham radio has become little more than an abstraction—a concept—a means to an end, the end of which is to make DXCC in a few days with no effort, no pain, and with nothing learned.

Some of us are old enough to remember when things were different. As Novices, we struggled with a 75 Watt input power limit, which meant that if we were lucky, we might be able to squeeze about 50 Watts out of an old, second hand transmitter that chirped, buzzed, and sputtered, with key clicks and second harmonics that put us on forbidden frequencies if we weren't careful.

A decent receiver cost about \$200, a worse one around \$100, and the worst of them, \$50 or less. Sometimes, we couldn't even afford that, so we built our own receivers, or used World War II surplus that had to be modified and converted. It was the same with transmitters. In the 1950s and early '60s, it wasn't uncommon to work a weak station running a homemade one tube transmitter built on a cigar box, and a homemade regenerative receiver that overloaded on transmit, and drifted way off frequency when the operator placed a hand near it.

But by building our own equipment, we learned. Often, what we learned would later prove useful in our professional lives.

Like the first Novices, we had to hurry up and get on the air and be proficient enough at code to pass the General exam. We had only one year to do so. After that, we had to go QRT, and lose our original call. If we changed address or "upgraded" in the interim, we'd sometimes get a new call anyway. The F.C.C. wasn't nostalgic about our calls. Their computers spit them out in order of processing. If a bureaucrat was lazy, sitting on our application, we might wait months before we got our new license, by then, assigned a totally different call. I've known people to whom that happened, including one of my cousins.

As late as the 1960s, not many DX stations could afford commercial equipment. Many QSLs from those days list homebrew transmitters and receivers. Most often, these were in "Iron Curtain" countries in Eastern Europe. I well remember the characteristic chirpy, buzzsaw notes emanating from stations in SP, HA, YO, YU, DM, OK, and "U" land: (Poland, Hungary, Romania, Yugoslavia, East Germany, Czechoslovakia and the U.S.S.R.). And yet, they were very active, the 20 meter band often filled with their signals, making lots of contacts with those of us fortunate enough to live in relative freedom and far less poverty.

Here's a typical example, from DM4YPL, Siegfried, in Glashuette (Saxony), East Germany, in 1965:



Except for a few pieces of ex-Military equipment (including what looks like an American National Radio Company "HRO," or a copy), much of his station is homebrew. His transmitter, by the way, consisted of six stages, and ran 80 Watts input. Getting parts was a challenge in Iron Curtain countries, and operating itself had its challenges. You had to be careful about what you said over the air, too, for you were under the watchful eyes and ears of the Stasi (Secret Police, or their equivalents in the other Iron Curtain countries). If you said the wrong thing, you could be awakened at 4 o'clock in the morning by the sound of pounding on your door.

Opening it, you would be met by a couple of tough guys in uniforms who would whisk you away in your night clothes, for "questioning." You might not come back for months or years from the clink, or you might never come back at all, as the former "guest" of one of those famous prisons in the Socialist Worker's Paradise of the "German Democratic Republic," as it was laughingly called.

But for all of us using simple equipment there was one consolation. Whatever DX we worked had meaning for us. It was fully satisfying to make DX contacts, knowing that we had done the work required to complete the contact. We had to learn to copy weak, fluttery signals in QRM, QRN, and deal with the frustrations of QSB and the mysterious whims of propagation. When we got a QSL card from a DX station, it was a welcome addition to our shack wall. We knew we had earned the privilege of receiving that card by being skilled radio operators.

When we worked a new, exotic DX entity, it was common to consult a World Atlas to learn more about it. We'd look at the map, see pictures of their largest city and countryside, learn about their climate, their official language, principal exports, unit of currency, form of government, and official religion. In so doing, we were enriched in more ways than one.

People exchanged real QSL cards then, each one reflecting something of the personality of the operator. Many were plain, just containing the essential facts of the contact. Some included interesting graphics; photos of their shack, their major city, a map of the country, and portraits of their national heroes. On the back of the card, there would usually be a short description of "who and what" was on the front of the card. A space for comments would be filled with handwritten words from the operator, and even signed, thus adding a personal touch. No two cards would be completely identical, because no two human beings are completely identical.

Today, many hams "confirm" their contacts by entering data by computer keyboard on somebody's website. These entries carry only the essentials of the contact, but without any graphics, and without any personal touch. And yet, people think this is okay; why, I do not know. I suppose that if all you want is credit for an award, the humanity of the operator is unimportant, but not to me.

If you are so removed from reality that you find no problem with automated "QSOs" and data entries counting as "confirmations," then what will be next? Why not do away with the real-time element of radio communication entirely, and just post your call on a website and wait for other calls to appear there making "contact" with you merely by seeing your call? I have no doubt that this would appeal to a certain percentage of today's hams, too. No need to copy anything by your own ears or efforts, no QRM, QRN, QSB or worries about propagation. No need for radio equipment at all, or an antenna. You don't have to develop any skills. You don't have to learn anything. But you could make 1,000 "QSOs" in a few days and make DXCC without even turning on a radio. But you will take no pride whatever in this. If you are a reasonably normal, well-adjusted human being, you will quickly become bored with this, and go back to your stamp collection; hunting sea shells the hard way being too arduous a task for you.

I'm told that such innovations are "progress," and that one must never fight "progress," because, I'm also told, "progress" is good.

This all reminds me of the billionaire who owned a mansion on the Hudson. His oak paneled study was decorated with the heads of a variety of big game mounted on plaques on the wall. There were lions, tigers, impalas, a wildebeest, not to mention a zebra or two. One day, the billionaire showed off his trophies to a guest. The guest asked the billionaire what type gun he used to bag each of them.

"You don't understand. I can't even fire a gun, nor would I wish to. It's a tiresome business, anyway, too hot in the jungle, and it gets one's hands dirty. I simply send my man Buckley on African safaris, and he does the shooting. Then, he sends the animals to the taxidermist, who cleans, preserves, and mounts them. Then, Buckley simply hangs them on the wall."

A bit perplexed, the guest says, "But you haven't earned those trophies. You've contributed nothing to the effort, only taken the rewards."

"Again, you don't understand. That's progress, old man, progress, and we must change with the times, you know."

Is it possible to recover a sense of accomplishment in amateur radio, too? Yes, and it's much more fun, as well as being much more fulfilling. You don't need 1500 Watts, you don't need an expensive, "state-of the-art" transceiver, nor monster beams on monster towers that scrape the clouds. You could use these tools, of course, but I'd like to propose an alternative. Running just 100 Watts, or even with just a few Watts, you'd be surprised what you can work. And you don't need a computer or any software. You can do it all by yourself, the way hams have been doing for some 120 years.

### The Way We Were, continued.

But it means making an effort; but isn't that what amateur radio is all about—individual effort by human beings to communicate with other human beings? It means you'll either have to learn the code and become reasonably proficient at it, or learn proper microphone technique on SSB, or even better, both. You'll have to learn to dig down in the QRM, QRN, and the weird noises infesting our bands from a variety of "smart" devices in your home and your neighbor's. You'll have to suffer the occasional loss of words due to QSB, and you'll have to ask for repeats. You'll also be subject to the whims of propagation. But after all, that's what real radio operators have always done, and still have to do.

You don't have to run QRP, of course. But if you do, you'll be adding an additional dimension to the challenge, and to your sense of accomplishment. And if you want to have an even greater sense of accomplishment, how about building your own transmitter? It doesn't cost a fortune, and all you'll need is a handful of well chosen parts. There are lots of simple transmitter circuits in the ham magazines and online, so do some digging. Of course, you'll first have to learn how to read a schematic, and maybe that's too much to ask, too.

But even if you're too lazy to learn to read a schematic or even learn how to solder, there are lots of QRP transmitters and matching receivers out there that you can buy, including complete transceivers. Some are kits, and with a little effort, they can be built for less than \$100. A few cost even less, so do some searching online.

You might also consider making your own antennas, too. Many books and websites can guide you through the theory and provide practical information on making everything from a simple HF dipole to multi-element beams for HF, VHF, and UHF.

It doesn't matter if you talk with another human being from New Zealand or with someone in the next town. You can dive into the waters of the ionosphere, hunt those rare mollusks, like Wayne and his pal Jeff, or like me hunting old books in dusty old buildings, and you, too, can enjoy the satisfaction of finding something interesting, memorable, possibly beautiful, and completely unique—in the form of another human being; a living creation with a soul, suffering "all the natural shocks that flesh is heir to," to borrow words from the Bard of Avon.

If you really do this—really make the *effort* to be a true radio amateur, learning, building, and operating using your own skills, it will make you feel good. Possibly better than you've ever felt from anything else you've done with your amateur radio license. It will reaffirm your humanity and the humanity of others. It will remind you that without another human at the other end of that contact, talking to you in real time with all the QRM, QRN, and other annoyances that you have to copy through, you might just as well play a video game and exist solely in the artificial, fantasy world of an algorithm trapped in a microchip, which is its sole and only reality.

I don't know about you, but I think human beings are far more interesting creations than robots and the canned, automated responses from a machine. Think about it.

Until next month, 73, Fred W2AAB

# **2022 FLARC ACTIVITY CALENDAR**

J	July	July 9	Independence Day Fireworks	
/	August	TBD	Vintage Night (tentative)	
F	Friday	September 16	POW-MIA Day Event	
9	Sunday	October 16	River Road Street Fair	
(	October	TBD	Portable Day with BARA	
F	Friday	December 30	Youth on The Air Contest (tentative)	

If in doubt about any event, consult our calendar at https://fairlawnarc.groups.io/g/main/calendar

# FLARC Member Part of POTA DXpedition to Alaska!

In case you missed this, James Gallo KB2FMH will be part of the team activating K2K, the very rare Kiska Island in Alaska, during the last week of July.

Check out details of this incredible expedition by one of our local heroes, and consider making a donation to help support their efforts. Here are the details:

https://www.qrz.com/db/K7K?fbclid=IwAR1xga4rHtk\_OfGyiwAKNIoDCL7tXfw8xKouTfwYnf7TP3f98YgNeE5I5d8

Work him and this QSL can be yours!! 73 ES GL James!!



# Around the Shack

Hal Kennedy N4GG/4

# Hints and Kinks - The N4GG Woodstock Station Part One

All good things must come to an end. N4GG was QRV from Woodstock, GA from mid-2003 until May, 2022. During that time over 400 contests were entered and 300-plus DXCC entities were worked on 1.8 through 50 MHz. The walls are covered with plaques; the QSL card cabinet is overflowing. The gear is for sale or already sold.

This is not, however, a nostalgia piece. There will be a next N4GG – it just won't be as grand. As the disassembly of N4GG has progressed I've run across items I designed, built and installed outdoors over a decade ago. I've decided to photograph them and write about them here before they become scattered and my memory is gone for good. I'll try to cover one a month for the next few months.

N4GG was a state-of-the-art SO2R (single op, two radio) contest and DXing station. The design objective was to make everything as good as it could be while acknowledging the antennas were subject to HOA restrictions. Modest antennas *were not* a reason to have a modest shack or a modest signal. It was quite the opposite. The design mantra: Make up for whatever was lacking outside with quality inside.

The station was designed for electrical efficiency (less heat) and operating efficiency (less fatigue). Operating efficiency was the independent variable when making design choices. Everything from the layout of the desktop to the comfortable chair (Herman Miller Aeron) was thought through. The design requirements were:

- Ease of simultaneous use of two radios on any combination of two of the six HF contest bands.
- Ease of operation with minimal fatigue for long operating periods, e.g. the 20 hours of ARRL Sweepstakes.
- Fully functional for daily DXing on 160 through 6 meters, with no configuration changes needed to move between contesting and DXing.
- Best signal possible, legally. No more than 1,500 watts. No less than 1,500 watts very often either.
- Automated antenna and bandpass filter switching ONLY where it made sense. No automation for automation's sake. Nothing digital for the sake of being digital.
- Maximum reliability. The station had to stay on the air with no failures, at full power, for the full 48 hours of a major contest.
- Durability: The station had to meet the reliability goal for a decade or more without downtime and with minimal maintenance.
- No changes once built. Use the best gear, layout and practices and then leave it alone. Time was to be spent operating, not loading an infinite stream of firmware updates. Buy from manufacturers that supply finished products rather than those who use their customers as alpha and beta testers.
- Maximize lightning protection. Goal: A direct hit on any antenna causes no damage inside. That's a tough one!

### Around the Shack, continued

As the station has come apart, I've been reminded of components and designs chosen to meet the above requirements. A lot of hardware was installed then remained untouched for as long as 17 years. Some of the ideas offered in prior *Around the Shack* columns actually work!

To start off this series of columns let's look at an outdoor relay box I used to switch the balanced feed line of a 20 meter folded dipole between use on 20 meters and use as a resonant 160 meter vertical. Figure 1 is a photo of the inside of the box after 17 years outdoors. The interior is caked with mud. It looks terrible. It still works fine. For reference, Figure 2 shows a new, unused relay.



Figure 1. An antenna relay box after 17 years outdoors.

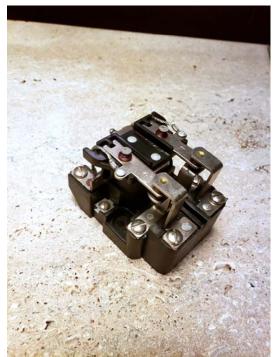


Figure 2. A new, unused antenna relay.

The box is a 4 X 4 inch NEMA electrical enclosure. These are readily available at home goods stores in a variety of sizes. You can also find a wide selection on Amazon. I used a NEMA box because they are inexpensive, non-conductive (the PVC version) and have a gasketed cover that provides a good seal. They are designed to protect electrical equipment outdoors. Note however, and as mentioned in a prior column, these and other boxes are not "waterproof" despite sometimes being advertised as such.

One of the considerations with NEMA boxes is the PVC they're made of creeps under compression. This makes it difficult to keep thru-bolted connections tight over time. Split washers and wave washers are helpful but the best approach is to design and build in such a way that loosening of thrubolt connecting hardware does not loosen the connection. It's easier than it sounds.

Take a close look at Figure 1. RF enters and exits the box via thru-bolts at the top and bottom of the box. The bolts are brass, not stainless steel (SS) as one might expect. Brass can be soldered to and conducts RF better than SS. Inside the box, connections to the thru-bolts were made with heavy stranded wire, soldered to the heads of the bolts. This precluded problems later from "loose connections."

At the outside of the box the bolts were secured against the box with a washer, a lock washer and an SS nut. The bolt and nut will loosen over time as the PVC relaxes, though not enough to cause

### Around the Shack, continued

mechanical issues. External connections to the thru-bolts at the bottom of the box were made with ring terminals and a second nut. The nut-on-nut approach won't loosen or become electrically intermittent over time.

Connection to the top thru-bolts used wing nuts to secure the antenna's balanced transmission line between two washers and against the first nut. The box was three feet above the ground, mounted to a U-Post. The transmission line's antenna end was 80 feet above the ground and the line was "flapping in the breeze." The wing nuts were tightened enough to secure the transmission line in a moderate breeze, but loose enough to allow the connections to break away in a strong wind. Stranded wire was chosen for the connections inside the box to allow for wind-induced "wiggling" of the connections.

It's hard to see, but wire was used to carry RF for 160 meters through holes in the bottom of the box. The holes were a pathway for the wires and served as drain holes. Note the interior of the box has only minor surface rust on the steel components of the relay. Over 17 years the relay was never exposed to water, just humidity.

So, why was the box full of mud? Ants, that's why. Ants, earwigs and other small critters think NEMA boxes make a great house. They bring in what they need to make a house a home. As much as I had wanted N4GG to be a zero-maintenance station, sometimes it wasn't possible. Spraying insecticide on the outside of the outdoor NEMA boxes became part of bi-annual maintenance.

Next month we will take a look at another NEMA box that was used as a control cable junction point as well as a critical part of the lightning protection system.

In March, 2020 I suggested every bolt, nut, washer, fuse, etc., etc. should be thought through when building a station. I hope this example illustrates attention to detail pays big dividends over time.

73,

Hal N4GG

The A index = LOW is GOOD 1 to 6 is BEST 7 to 9 is OK 11 or more is BAD

SFI index: HIGH is GOOD. 70 NOT GOOD 80 GOOD 90 BETTER 100+ BEST

K index: LOW is GOOD. 0 or 1 is BEST 2 is OK 3 or more is BAD 5 is VERY VERY BAD



Captain Larry WA2ALY ready to show the kids, and their parents, a "new secret language" – the Morse Code – at the Fair Lawn Radburn Street Fair.

### Ed - itorial : Hamfests R Us

# – by Ed WX2R

For a club that, before 2021 had never done a hamfest, the encore to last year's inaugural effort continued to surpass expectations. The club had a larger gate of more than 250 visitors and had 46 vendors: more than a quarter more than last year. To top that off, our sponsors and donors more than doubled our 2021 effort and to all of them, we say thank you.

What is interesting is the environment in which FLARC operated. From all we have heard, hamfests are changing and not for the better.

Attendance, for one. Orlando Hamcation was down. Dayton was down, even with pent-up demand and having been closed for two years. Local hamfests have not fared much better. Add to that an aging demographic, E-Bay, and a dearth of younger hams seeking older equipment ("where can I buy a boat anchor?") makes for an increasingly turgid stew of potential prospects.

Maybe we have been lucky. Maybe we have been smart. As one vendor told me, "You guys seem to know what you are doing... you are not the same old tired club doing the same thing as last year and waiting for a miracle".

From my years in marketing, Step 2 is never "...and then a miracle occurs." I can't help but think that we did a couple of things right:

- We had a plan. We did a post-mortem after 2021 and had some nice objectives to go into this year.
- Good leadership. Gene WO2W and Bill WA2WL are world-class. Sure, we kid them and beat them up at times, but they got it done.
- Good rapport with the Borough. Never to be understated, having town government supporting you goes a long way to obtaining operational and financial success. A look at other club's efforts in working with other towns shows the value of a solid partnership.

# Ed - itorial, continued.

- Innovation. The website made registration seamless and contemporary. One wag noted to me that "you guys most have a savvy programmer who knows what he is doing." Indeed, and thanks to Dave KD2JIP for making it happen.
- Volunteers. And lots of them. Frankly I was pleasantly surprised by the number of volunteers on Hamfest Day. And the high number of other club members who helped along the way or who showed up as buyers. Lots of red shirts making customers happy. Thank you!
- An investment in marketing. Ham club? Marketing? Yes, the two are not oxymorons. We spend money on signs, banners, and QST to get the word out. The numerous emails were "free" but the investment in time, sweat equity and creativity paid off. Never forget, while it may be a club and it may be a non-profit, it still is a business.
- We said: "Thank You" to our customers, vendors, sponsors, and donors.
- We have a plan. Did I say that? We have already met since June 4<sup>th</sup> to look at what went wrong and right in 2022 and we have built improvements into our 2023 outline; er, business plan.

So, are we lucky?

Remember that luck is always built into any process. And time is of the essence.

Put June 10, 2023 on your calendar.

# The Great FLARC Hamfest #3.

It's only eleven months away.

Ed WX2R

### Digital Voice SIG Update



DigiVoice@FairLawnARC.groups.io

A Special Interest Group SIG for those interested in Digital Voice modes (Digital Mobile Radio) communications and software.

DMR nets have been in low attendance on Bradmeister TalkGroup 310015, Tuesday evenings at 7:00pm.

If others would like to be net control, join the group and send a message.

We would like to thank Brad for the use of TG 310015.

There is also a FLARC "digital-voice" channel on slack.

For those interested in joining all the Digital Voice excitement! Contact Bob H. <u>KD2BKD@optonline.net</u> for information on the Digital Voice SIG.

Or just go to the club website <u>http://FairLawnARC.org</u> and use the "Join Special Interest Group(s)" link on the left.



# Radio Monitoring Special Interest Group Update

monitoring@FairLawnARC.groups.io

A Special Interest Group SIG for those interested in SWL and other radio communications monitoring.

I've got a bit of a potpourri for you this time.

Summer has started and that means the sporadic E propagation on the FM broadcast band, VHF Low Band, and television channels two through 6 is in full affect.

Sporadic E propagation is characterized by extremely loud signals with extreme fading over very short time intervals.

Over the years I have observed single, double, and even triple hop E skip, with signals ranging from one thousand to over four thousand miles.

If you still have an old analog TV, you can do an interesting experiment. Turn it on and set it on channel two and leave it there. You don't need a roof top antenna for this experiment – a built-in antenna or even a set of "rabbit ears" will do.

All the analog TV stations in the US have been taken off the air when the nation made the transition to digital TV a few years ago. This will give the astute DXer the opportunity to see television signals from the <u>countries</u> that still have analog stations on air.

This includes plenty of nations in range of our part of the US when the E skip is in. You will have a good chance of seeing signals from Mexico, Central America, northern South America and the Caribbean area.

Continued on next page.

### Radio Monitoring SIGroup Update, continued.

I personally have experienced E skip as high in frequency as our two-meter band. When I lived in Clifton, I worked N5KW in Oklahoma on two-meter SSB with ten watts using nothing but the infamous Ringo Ranger vertical. In addition, I have heard loads of stations on the FM broadcast band. One particular incident comes to mind. Back in the mid 70s when I was in college at Seton Hall University in South Orange, while walking across campus, I heard a station in Mississippi on the FM broadcast band. This was particularly noteworthy as I was virtually on top of our college radio station WSOU which was putting out several kilowatts at 89.5MHZ and the radio I was using had rather poor rejection of strong signals.

E skip conditions were so good last summer that a DXer in Northern Ireland was able to hear stations in Newfoundland Canada on the FM broadcast band.

Another phenomenon to look for this time of year is tropospheric ducting, particularly on the VHF and UHF bands. This is characterized by strong signals that fade over a period of several minutes. A duct can bring loads of distant signals for several hours or even in extreme cases for several days.

These ducts can take several forms. The most common type in this area is the coastal duct that follows the eastern seaboard from new England down to Virginia and the Carolinas.

Once in a while someone writes a book with radio monitoring as a key component and I thought I would include a small review here. Actually, it is a series of two books written by historian Matt Zullo.

"The U.S. Navy's On-The-Roof Gang" series — "Prelude to War" and "War In The Pacific" — is the gripping story of the start of the U.S. Navy's radio monitoring and crypto departments.

The On the Roof Gang was a school for radio operators and cryptologists who would go on to deploy on ships and to overseas bases and collect foreign signals intelligence and communications intelligence to monitor the movements and operations, and intercept the message traffic, of foreign navies.

In 1928 the Chief of Naval Operations understood that a group of formally trained operators was needed in the Pacific Fleet to monitor Japanese naval communications. There existed a small group of self-taught operators in the Pacific theater, and two of them were selected to become instructors in the "On the Roof Gang."

The books are replete with details about early radio direction finding equipment and procedures. In addition, they delve into the biographies and personal histories of the key individuals involved. Several were radio amateurs and shortwave listeners.

In my opinion the books are a compelling, interesting read and well worth your time.

You can get them on Amazon.

73 good DX'ing and happy reading.

De N2AAM

https://www.goodreads.com/author/show/20453200.Matt Zullo

# Satellite Special Interest Group Update

Satellite-SIG@FairLawnARC.groups.io

A Special Interest Group SIG for those interested in amateur radio satellites, as well as others like weather, GPS, etc.,

We welcome all interested in all types of satellite communications. Some interests are AMSAT, ARISS, receiving weather maps from satellites, APRS via ISS, and much more.

There is a new FLARC "satellites" channel on slack.

The ARISS is in Cross-Band Repeater Mode on frequencies (145.990 MHz up {PL 67} & 437.800 MHz down) at the time of this writing. For help on how to talk up to the ARISS join the SIG and new "satellites" slack channel and ask for assistance. Next mode change will be packet operation (APRS) but no specific date/time has been scheduled at the time of this writing. ARISS is powered OFF during docking and undocking maneuvers.

For those interested in joining all the Space Radio excitement! Contact Bob H. <u>KD2BKD@optonline.net</u> for information on the Satellite-SIG. Or just go to the club website <u>www.FairLawnARC.org</u> and use the "Join Special Interest Group(s)" link on left.







The big news is that club members have participated in events in the past months including the Memorial Day Parade, Parks on The Air and Field Day 2022. There have also been several *Kawfee Talks* on interesting subjects. [they are available on the club's You Tube channel].

Now is the time to upgrade antennas if necessary and to do those outside repairs on equipment and safety checks on electrical and RF connections.

Speaking of safety, make sure your antennas and power to your linear amplifier are disconnected when not in use. The new solid state linear amplifiers can be damaged by power surges during storms! According to the newest information, lightening can strike from four hundred miles away, so better safe than sorry.

Get on the air and TALK to SOMEONE. You can make friends all over the world through ham radio. And lastly get out to a swap meet or ham fest to pick up or sell some goodies but more importantly you can talk to your fellow hams or be an 'Elmer' to a new or prospective new ham – especially someone of the younger set.

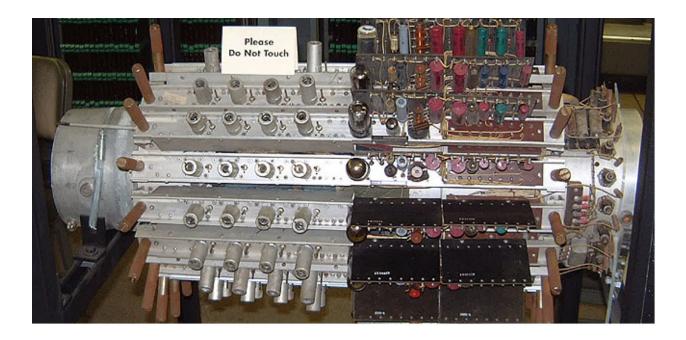
Have some fun doing a club activity and you will get to make new friends. Enjoy what you are doing.

Fred Wawra, W2ABE, 73.



What Is It? – Answer To Last Month's Question

# **By: Fred Belghaus W2AAB**



This was a good one, stumping almost all of you. But not Bill Leger, WA2WL. Bill amazed me by making an educated guess which turned out to be close enough to be right. Bill reasoned that the round shape of the assembly was to make the interconnecting leads between circuit modules as short as possible, "and that implies speed," Bill wrote. His first thought was that it was the memory part of an early computer, and that the modules were flip flops. Bingo, Bill!

It is, indeed, a Mercury Memory module from a Sperry UNIVAC made in 1951. The name UNIVAC was derived from the words UNIVersal Automatic Computer. [1] Early development of UNIVAC began in 1946 by John Eckert and John Mauchly, while operating their company, Eckert and Mauchly Computer Corporation.

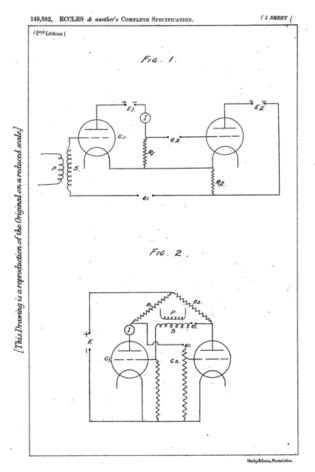
These men had first developed ENIAC (Electronic and Numerical Integrator And Computer) during World War II while working on a team at the University of Pennsylvania. ENIAC was used by the U.S. Military for improving the accuracy of artillery fire. [2]

Eckert and Mauchly sold their company to Remington Rand in 1950, where they were able to fully develop UNIVAC into a practical commercial computer, and sold their first model to the U.S. Census Bureau in 1951. [3] One year later, CBS-TV used a UNIVAC to successfully predict the outcome of the 1952 Presidential Election [4] of Dwight Eisenhower, contrary to the Gallup Poll, which predicted a victory for Adlai Stevenson. [5]

# What Is It? - Answer To Last Month's Question, continued

Unlike other early computers, using punch cards (such as those made by IBM), UNIVAC had the first memory storage feature. The Mercury Memory module (shown above), was one of these. It used delay lines consisting of tubes of mercury to store the data. There were actually many of these modules to make up one UNIVAC computer.

The flip-flops, originally designed and patented by William Henry Eccles and Frank Wilfred Jordan in 1920, used triode vacuum tubes, originally known as the Eccles-Jordan Trigger Circuit, and sometimes referred to as a "multivibrator." But it wasn't until 1948 that their use in computers was conceived by Claude Shannon, who concluded that a flip-flop was capable of storing one bit of information, using Boolean algebra (AND, OR, and NOT). [6]



Eccles-Jordan Flip-Flop Patent, 1920 Image: Wikipedia

Of course, these triodes were later replaced by tape, core memory, transistors, integrated circuits, magnetic and optical disks, solid state and external storage devices.

I can remember vividly searching Radio Row for electronic goodies in the 1960s and finding piles and piles of former computer memory modules using miniature tubes, stacked up for sale at very low prices.

# What Is It? - Answer To Last Month's Question, continued

Here's one example:



Image: Wikiwand.com

I never bought any, though. Even though there were lots of low cost tubes and tube sockets in them, what would I do with all those resistors with short leads?

73,

Fred W2AAB

NOTES:

[1] "UNIVAC," Engineering and Technology History Wiki, at: https://ethw.org/UNIVAC

[2] Ibid.

[3] Ibid.

[4] "Sperry Corporation, UNIVAC Division photographs and audio-visual materials 1985.261," at: <u>https://hagley-aspace-pdf.s3.amazonaws.com/1985.261.pdf</u>

[5] "Dwight D. Eisenhower: First Term as President of Dwight D. Eisenhower," *Britannica*, at: <u>https://www.britannica.com/biography/Dwight-D-Eisenhower</u>

[6] "Eccles and Jordan Invent the Flip-Flop Circuit, the Basis For Electronic Memory," at: <a href="https://www.historyofinformation.com/detail.php?id=3606">https://www.historyofinformation.com/detail.php?id=3606</a>

# What Is It? – July, 2022

# By: Fred Belghaus W2AAB



Well, here's something a little different. A few clues: It was made in 1953. It is used with a transmitter. It requires a battery power source rated at 12 Volts. It was supposed to be tested every day, but with the station transmitter shut down. It is something the operator hopes he never has to activate for its intended purpose, but if needed, it could save his life and many other lives.

Too easy? We'll see.

73,

Fred W2AAB

### **DX Special Interest Group Update**



I'm stunned !! It's 01:00 local time ... I was editing the Resonator and had 20m FT8 running in the background. Took a moment to look at what stations were being decoded and saw 3D2AJT (in Fiji) with a fair (-04db) signal. So I clicked on the call, clicked on [Enable TX] and 30 seconds later the Special Event Station was calling ME and sending me a report of +01db ... I do love that hex beam!

SES? I didn't even know it was one until JTalert looked it up and said so. And a quick click on the [Q] button in JTalert takes me to the QRZ.com page, which tells me it is a station in Nadi, Fiji Islands -- commemorating the life and death of JH1AJT. Ham radio, the radio waves and FT8 never cease to amaze and educate me!



https://www.qrz.com/db/3D2AJT

Jim W2JC

#### UPCOMING CONTESTS TO CONSIDER:

- ✓ Marconi Memorial Contest
  − 1400Z July 2 to 1400Z July 3
- ✓ Walk for th Bacon QRP Contest July 7<sup>th</sup> 0000Z-0100Z
- ✓ IARU HF World Championship
  − 1200Z July 9 to 1200Z July 10<sup>th</sup>
- ✓ VHF-UHF FT8 Activity Contest 1700Z-2000Z July 13<sup>th</sup>
- North American QSO Party RTTY – 1800Z July 16 to 0Z July 17<sup>th</sup>

Go get 'em .....

# Contest Corner



- Van W2DLT



As you read this, Field Day 2022 will have come and gone. It was our first event since Covid released its grip and it was a real delight to see everyone in person once again. Call it a CONTEST, or call it an EXERCISE, or call it just plain FUN. We were all there, picked up a couple of new members and introduced our wonderful hobby to a number of visitors, some of whom expressed a real interest in learning more...

Speaking of Contesting.... If you are SERIOUSLY interested in Contesting (SSB, CW or Digital) Frankford Radio Contesting Club (FRC) may be for you... They hold monthly meetings in person in Lansdale, PA (also on ZOOM) and publish a great newsletter. They have a Reflector where you can post/ask about anything Contest related and one or more of over 400 members will most likely answer with a specific answer for you. There are NO dues, but you must be voted into membership. Beginners with a sincere interest in becoming a serious Contester are welcome. Email me for details. Many FLARC members also are FRC members. Their motto is:

### "PROFICIENCY THROUGH COMPETITION!"



# Radio conditions are getting better, and so is the weather ...

Think about 10 meters... NOW... Recently, propagation on 10 meters has been worldwide – and Technician class can use SSB voice between 28.300 to 28.500MHz. The Fall should be great for 10 meters, for contesting AND for DXing. Get those antennas up NOW – don't wait for the snow to fly to think about it...

Continued on next page.

### **Contest Corner, continued**



# 13 Colonies Special Event – July 1 to 7, 2022

http://www.13colonies.us

While not a "contest" per se. It is a worthwhile endeavor and might yield the award shown on the right for your wall. The Annual 13 Colonies Special Event runs from July 1 (9AM Eastern) to July 7 (Midnight Eastern), (July 1, 2022-1300 UTC to July 8, 2022-0400 UTC). 2022's theme is Land Battles of the Revolution.

All HF bands will be in play, including the WARC bands, with the exception of 60 meters. Simplex on 2 meters and 6 meters is encouraged. The Special Event stations are on the east coast and are very close to each other. It will be harder for these states to contact each other, so use of 40m-160m is encouraged. All modes of operation may be represented - SSB, CW, RTTY, Digital, etc. The mode of operation is up to the individual colony state station.

The exchange for this event is: CALL SIGN RS / RST / RSQ plus STATE / PROVINCE or COUNTRY. Please refer to the State information pages for details. See QSL info in the Menu for the list of states and bonus stations. <u>http://www.13colonies.us</u> You do not need all 13 Colonies to get the certificate, and you do not need the two bonus stations for a clean sweep.

Members of the Holmesburg ARC, Phil-Mont Mobile Radio, Pottstown Area ARC, the Philadelphia Digital Radio Association, and Villanova University Amateur Radio Club will celebrate Independence Week from the city where independence was declared: Philadelphia, PA. They operate a special event bonus station using the club call WM3PEN. See their operating details and QSL info on their 13 Colonies page. In keeping with the theme, the WM3PEN QSL card will feature the Battle of Germantown. WM3PEN will be on D-STAR - Ref 063 Module A from 8-10 PM EDT (0000Z - 0200Z).

The 13 Colonies Special Event is a not for profit event. All donations are used to fund the next year's event, and to defray any expenses occurred. All donations are used for operating costs, supplies, equipment, and 13 Colony Group initiatives. Donation is voluntary. Learn more about the 13 Colonies Special Event: <u>http://www.13colonies.us</u>

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### 3YØJ DXpedition to Bouvet Island , January 2023

Progress is being made for the 13 operators to activate 3YOJ DXpedition to Bouvet Island, which is billed as: "The most remote uninhabited place on Earth" and the #2 Most Wanted Entity in the world.

Bouvet is a small Norwegian inactive volcanic island, half the size of Manhattan, covered almost entirely by snow and ice... Because of its remoteness it has rightfully gained the title of "the most remote island on earth." That makes if, for the ham radio world, the equivalent of Mount Everest of the DXCC entities. They're still planning on making 200,000 QSOs during their stay on the Island during January 2023.

Technically this is not a contest, but when you are in the "pile up" of stations calling the DXpedition you will feel like you are in a real serious contest!

To Bouvet, the team will bring with us 6500 kg of equipment, which includes several tons of fuel and food. Our contract allows for 22 days on the island, but we have food for 30 days and a plan for rationing should we have to stay beyond 22 days (due to weather or other problems).

You can follow the plans from our website and the 3YØJ Facebook pages: <u>http://www.3y0j.no</u> https://www.facebook.com/groups/3093983840726129



### **Theoretics Demystified**

Last month the subject was magnetism which leads us further into a discussion on the atom and more exactly the stabilizing component of the atom -- the electron. More specifically, the *electron* binds atoms together to form molecules.

As we discussed last month the electron is instrumental in magnetism and electricity. The electron, like light, acts like a wave and a particle [sometimes called *wavicles*]. In other words, it acts like a wave and acts like a particle. The electron is a member of the LEPTON family. There are three *neutrinos* with no electrical charge in the lepton family and three electrons which have a charge in the lepton family of particles. We are talking about the 'plain' electron. There are also *muon and tau electrons* which we are not focusing on.

The electron is made up of ten *neutrinos* in a stable tetrahedron configuration. There are ten 'wave centers' that form the tetrahedron [a triangular pyramid—there are NO parallel faces] which is stable in three dimensions. The ten neutrinos [wave centers] are solid particles, but what is measured as energy or mass is its standing wave structure -- hence both the particle and the wave characteristics. There is an involvement of waves [assumed to be energy] at the ten wave centers which make up the electron and there are incoming and outgoing waves which produce standing waves.

Remember that these waves move at the speed of light and since we cannot see electrons, it is important to know that much of the above is theory born out of experimental scientific observation. There is much more to all of this, but the scope of this column is to bring to the nontechnical a basic understanding of a given monthly subject.

To form matter there is atomic bonding which is either *covalent bonding* when atoms share electrons in their outer orbits and the other is *ionic bonding* where atoms give up electrons to another atom and bonding can only happen if there is room to share or receive the extra Theoretics Demystified, continued

accounts for magnetism when the net charge on the electron is positive—constructive waves adding up. [The charge of an electron is wave amplitude and constructive—wave adding up, or destructive—waves cancelling each other].

This brings us to *electricity*. Electrons in the outer orbits do not have a powerful force of attraction to their protons [think atom nucleus] and therefore applying an external force such as connecting a battery in a circuit can make the electrons shift from atom to atom and we call the resulting action electricity!!

Copper has loosely bound electrons which make it a suitable conductor of electricity, but the electron spin has a neutral 'charge' and therefore copper is nonferrous in nature. When a current is flowing through a copper wire, that produces a magnetic field; but copper itself is nonmagnetic.

There is also heat produced as the energy is transmitted along the wire. It is like having a long tube with ping pong balls inside, push one in on one end and one comes out the other end.

We call that electro motive force!!

EDEN \A/A\A/DA \A/7ADE 731

If readers have any questions or comments regarding the explanations in the above article, please contact the author directly at <u>wawra1@optonline.net</u>

# Pandemic Theatre II: Field Day 1948

This <u>radio broadcast coverage of the 1948 ARRL</u> <u>Field Day</u> comes from an archived transcription disk in the library of the Morse Telegraph Club.

Thanks to the Morse Telegraph Club archive.

https://radio-relay.org/arrl-field-daycoverage-in-1948/?fbclid=IwAR2CsRB-MZ4A90Lh0gha99VXtGdHAyV CkgVBSCJgqifJ6 kU Gr4d9eA7Zk

# FLARC To Hold VE Testing On July 16<sup>th</sup>

**On July 16, 2022** Fair Lawn Amateur Radio Club will continue amateur radio test sessions.

The location is at:

The Fair Lawn Recreation Center 10-10 20<sup>th</sup> Street Fair Lawn, NJ

Covid-19 related incidents will cancel testing.

### Prior to Testing:

Send an email to <u>wo2w@arrl.net</u> requesting to book your spot. Pre-registration is REQUIRED.

### Please Bring With You:

- You MUST bring and WEAR personal PPE items including a face mask
- 2 pens and 2 pencils. None will be provided to you due to possible virus transmission
- Your FRN number, and (if licensed) a copy of your ham license or a valid CSCE (Certificate of Successful Completion Exam)
- A completed Form 605 (which will be sent to you ahead of your test session, along with your assigned test time.)
- Additionally, the \$15.00 exam fee. This is payable in cash (exact amount is a must); *new rule:* a fee of \$35 must be paid to FCC directly after passing the test (get details from Examiner).
- 3 copies of the CSCE form which will be sent to you ahead of your test session

Additional scheduled testing dates are: August 13, 2022 and September 17, 2022.

FLARC is following government Covid-19 guidance closely and all events will adhere accordingly to the latest advice.



# Raspberry Pi and Arduino Special Interest Group Update

Rpi-Arduino@FairLawnARC.groups.io

A Special Interest Group SIG for those wanting to learn about and use Raspberry Pi, and Arduino, modules - with special interest, of course, for ham radio projects...

FLARC has a new SIG for those who experiment and build Ham Radio equipment with Raspberry Pi and Arduino boards or would like to learn. See last month Ham Clock project for an easy and very nice addition to your radio room.

There is also a FLARC "raspberry\_pi\_and\_arduino" channel on Slack.

For those interested in joining all the Rpi-Arduino excitement, contact Bob H. by email at KD2BKD@optonline.net for more information.

Or just go to the club website FairLawnARC.org and use the "Join Special Interest Group(s)" link on left.



# **2022 Member Profiles**

Here are this year's member profiles. An index of previous years can be found elsewhere in this issue. All profiles can be found in the newsletter archives on the FLARC website.

Month	Name	Callsign
January 2022	James	KB2FMH
February	Brian	N2BTD
March	Luisa	KD2YWX
April	Ria	N2RJ
May	Telly	WW2SPY
June	Ken	W2SCT
July	Avanti	AC3DZG
August		
September		
October		
November		
December		







# Lori & Van W2DLT are hosting:



# Sunday July 17, 2021 - Noon to 5 ---after the Sussex Hamfest---

Hey Fair Lawn Amateur Radio Club (FLARC), FRC and friends... You're invited - for FOOD-FUN-RELAX-RADIO -whether you are going to the Sussex Hamfest or not...

But, if you are going to the Sussex Hamfest, <u>you're 3/4 of the way</u> to Lori & my home/hamshack at 124 Lakeview Terrace, Hemlock Farms, Lords Valley, Blooming Grove Township, PA (Carpool together from the hamfest - save \$)

<u>To plan & let the gate know ur coming, YOU MUST **RSVP by FRIDAY JULY 15th**</u> Cell/text 201-207-3346, House 570-775-0738 or email vanw2dlt@yahoo.com

- ---- Family/Kids Welcome - we have a large fenced-in deck and gazebo overlooking the lake ---- We have a hot-tub on the deck. Swimming in the lake and/or outdoor-indoor pools ---- Hiking/Fishing (PA license required 16 and over available on-line) ---- Ham Radio OF COURSE! AND A FOXHUNT TOO!

Bring something to share if you like, not required -

let me know though so we don't end up with 50# of potato salad!

BTW: Lori and Van are triple vaccinated and we have room to social distance here.

Masks optional, since we'll be outdoors most of the time.

DIRECTIONS: From Sussex Hamfest - Turn right on Route 206 North, follow Route 206 past Stokes State Forest. Watch for Route 560 on left (doesn't go to right - vacant restaurant on far left corner). Turn left on Route 560 and cross Dingman's Ferry Bridge. Pay the nice man \$1 and thank him for letting you use his bridge (no EzPass). After the bridge, Route 560 becomes PA Route 739. Follow it 13 miles. You'll see a traffic light and a Weis Market. Just past the light, turn left into Hemlock Farms, keep right up the hill to the gate. Visitor Gate Keeper will provide a map or WAZE app will bring you right to the house. Or, someone can come get you and lead you in, if necessary.

ADVENTURESOME? If you're feeling adventuresome - after you get your pass at the gate, proceed straight on Hemlock Farms Road about 1/2 mile until you start down a LARGE DIP. At the BOTTOM of the dip turn left on Mountain View Drive. Follow it to the end at Forest Drive, Turn left and follow it until you see a small gatehouse ahead. Before you get to the gatehouse turn left on Lakeview Terrace. Look for 124 Lakeview Terrace (a green house, with lot of cars and balloons around). You're here. I will monitor 146.535 simplex.

# YOU MUST LET ME KNOW IN ADVANCE WHO AND HOW MANY ARE COMING (FOR FOOD PLANNING) AND WHO THE DRIVER IS, SINCE HIS/HER NAME WILL BE THE ONE REGISTERED. **OTHERWISE YOU MAY BE DELAYED AT THE GATE....** LAST MINUTE DECISION?

THAT'S OK TOO, BUT YOU MUST LET ME KNOW, AS SOON AS YOU KNOW YOU'RE COMING.





For FLARC membership info and renewal/application form please visit:

membership.FairLawnARC.org

# FLARC Dues, new and renewal, (and even donations!) can now be made on-line ...

[Please note that this is a temporary improvement while Dave KD2JIP works on a real, full-fledged web page for filling out the membership/renewal form and submitting that and payment on-line.]

Payments can be made using either PayPal or Zelle. Here's how –

# Using PayPal —

Log into your PayPal account at

### https://www.paypal.com

At top right, select "My PayPal"

Under Quick links, select "Send Money"

In the window showing

Name, email or mobile number enter this email address:

# 1947xyzabc1947@gmail.com

### Clickon [Next]

Enter \$ amount you are sending, & in "add a note" area type in your CALL SIGN and which year (2020 or 2021) the dues are for, & any other explanation.

2	1947xyzabc1947@gmail.com
	° 0.00
	(USD ~)
∥ Add a note	
Eligible purchases	are covered by PayPal Purchase Protection
View PayPal po	ilicies and your payment method rights.

Cance

Clickon [Continue] Clickon the [Change] button Clickon "Sending to a friend" link

CONTINUED IN NEXT COLUMN ->



No fee to use bank or balance to send to friends and family in the U.S.

You will see a summary of your transaction; if no changes are required, click on

[Send Payment Now]

to complete your transaction.

### \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

# Using Zelle —

If you are using Zelle through your bank account, just send your dues to the following number: 201-240-9317

Don't forget to add in the note/message section your callsign and that it is for your 2020 and/or 2021 dues.

**OR** you can still use a good <u>ol</u>' Check or Money Order payable to FLARC - always put your Call Sign and "dues for 2020" (or 2021) on the check. MAIL TO:

> Bruce <u>Kalogera</u>, NJ2BS 163 Meadow Lane Secaucus, NJ 07094



# Fair Lawn Amateur Radio Club

Fuir Lawn Recreation and Community Center 10-10 20th Street Fair Lawn, N.J. 07410

### MEMBERSHIP/RENEWAL FORM

Name	Call			
	BoxSte./Apt			
CitySta				
	published Phone #			
Roster Published EMAIL				
ARRL Member ? RACES Member ?	ARES Member ?	CIGRT ? VE ?		
Additional Family Members (In same household) -				
Name		Call		
Name		Call		
Introductory and Student Membership (Students umber the age of 18 eligible for student membership (Introductory membership open to new members or not a member in lost 7 yrs)	9 S 20	s		
Associate Membership *	(No Fee)			
A Open to Fair Lawn Residents Only. No voting rights or othe	r privileges.			
Renewal of Corrent Membership	\$ 25	s		
Three Year Renewal Incentive	\$ 65	8		
(Single memberships only, family memberships excluded)				
Additional Family Members #at	S 5 each	8		
Life Membership	S 625	s		
Senior Life Membership (65 yrs. of age or over)	S 250	S		
Equipment Fund Donation, above regular membership d	ues	S		
	Total submitted	s		

I hereby acknowledge the By laws and rules and regulations of the club and will ahide by them as amended

Please Note: Memberships are NOT Pro-Rated. Membership is from Jan 1<sup>87</sup> to Dec. 31<sup>51</sup> of any given year unless documented otherwise.

Please make your dues check payable to the "Fair Lown Amateur Radio Club" and remit to the following address:

#### Bruce Kalogera NJ2BK 163 Meadow Lane

Secaucus, NJ 07094

Mail sent to the clubhouse will be delayed due to

Covid. See website for other membership options.

The Only Newsletter In The World That Gives A Damn About FLARC

Date

# July 2022 FLARC Business Meeting

Fair Lawn Amateur Radio Club Secretary's Minutes Prepared by David KD2MOB Business Meeting of July 1, 2022

The Meeting was called to order by Nomar NP4H, at the Fair Lawn Community Center. The meeting was held via Zoom video teleconference as well and began at 7:30 PM and concluded at 8:15 PM.

The Pledge of Allegiance was recited at 7:31 PM

Nomar NP4H facilitated a roll call and a quorum was established.

President -	Nomar Vizcarrando,	NP4H	
V. President -	David Corsello,	KD2JIP	
Treasurer -	Bruce Kalogera,	NJ2BK	- Excused Absence
Secretary -	David Gotlib,	KD2MOB	- Absent
Trustees (3) -	Ed Efchak, Fred Wawra, Brian Cirulnick,	WX2R W2ABE KD2KLN	

Opening remarks by Nomar NP4H. We have a quorum. Happy Canada Day! June's meeting minutes are located in the updated June Resonator.

Motion to accept the Minutes - Skip KD2BRV, Seconded by Jim N2JLF

Treasurer Report by Nomar NP4H through Bruce NJ2BK Motion to accept the Treasurer Report as presented - Brian KD2KLN, Seconded by Bob N2SU

**Committee Reports** 

**Technical Committee** - Paul W2IP - No new updates. Rooftop antenna work will be performed. Jim W2JC - No news.

### Marketing Committee - Ed WX2R -

Programming -

Kawfee Tawks

July 15: Gordon Beattie W2TTT Setting up a ham radio station

August19: Jose Vincennes NP4G: DXpeditioning

Sept. 16: Howard Bernstein WB2UZE: "How to learn and have fun with Morse Code"

October 5: An Intro to Radio Astronomy

Tom Crowley KT4XN, Society of Radio Amateur Astronomy

October 21: Paul Cianciolo W1VLF "RFI in the shack and around the house"

November 18 (date may change): The Swiss Shortwave Merry Go Round: Bob Zanotti HB9ASQ December 16: An ARRL Update and more Events -

Continued on next page.

# July 2022 FLARC Business Meeting, continued

POW-MIA Recognition Day :Sept 16th , We will participate as K4MIA/2 (approved)Street Fair:October 23rdOther -West Palm Beach club partnership

### Website Committee - Jim W2JC -

- The IO calendar is updated. Fireworks Night is July 9th.
- The current roster has been converted to a .pdf format and is available in the FILES area of our groups.io website.
- Rough score for Field Day at least 26 operators, 4,514 points not including bonuses, 1,375 QSOs, various contacts using voice, CW and FT8 on various bands was stated.
- The Newsletter will be delayed.

Nomar NP4H thanked all for coming out on Field Day and stated that we are all united. Nomar thanked those involved for getting Field Day up and running and thanked Noel N2MSA for chairing and organizing it.

### Field Day - Noel W2MSA

• Field Day was a challenge; a bit of a bumpy road putting up the antennas. Many members were supportive, gave encouragement and insight on Field Day. Noel wrote a thank you message in the upcoming Resonator and thanked everyone for making Field Day possible - the technical staff building the network, food preparation and the station captains. There are no regrets. Noel had a great time and is looking forward to refining a couple things next year.

• Ed WX2R mentioned that the club obtained two new members on Field Day, possibly three new members.

### RACES / ARES - No report -

VE Sessions - Gene WO2W -

- Five people were registered for the last VE session. Three were no shows. One passed the Technician exam, the other didn't pass an exam.
- The next session is on July 16th at 9:00 AM;

Social Media Committee - W2NZ - No report -

Continued on next page.

# July 2022 FLARC

# **Business Meeting, continued**

• After the meeting Tom W2NZ provided the following update:

15 new subscribers, watch time is 216.5 hours and 1,389 views in the last 28 days. Per Thom, this is about average.

=	Studio	Q, Search acrois your channel	4
	FAIR LAWN	Channel analytics Overview Content Audience Research	ADVANCED MODE Jan 4 - Jar1, 2022 Last 28 days
	Your channel FaltownARC.org	Your channel got 1,389 views in the last 28 days	Realtime • Updating live
- 22	Deshboard		852
ø	Content	Views      Watch time (hears)      Babscribers        1.4K ⊘      216.5 ⊘      +15 ⊘	Subscribers SEE LIVE COUNT
=	Playlists.	Alout the same as usual About the same as usual About the same as usual	
			97 Views - Last 48 hours
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٥	Settings	Your top content in this period	Latest content
<b>13</b>	Send feedback	Content Views	Roots William & Composition for Sing they - Wittens

### **Old Business -**

• Dave KD2JIP thanked Bruce NJ2BK and Lee KD2DRS for their involvement in requesting a grant for the club. The paperwork has been submitted. Dave KD2JIP explained that \$500,000 in grants up to \$25k each can be awarded to various clubs through the ARRL for ham radio projects and he thanked members of the club and Board for providing grant ideas. Bruce NJ2BK came up with a great idea / program - to bring in new hams from the community and give them 2 years' member-ship to FLARC and the ARRL. Training / classes to obtain the license will be provided by Bill NB1LL. There will also be ongoing training. Dave KD2JIP is very confident in Bruce's work and is hopeful that the League will approve his application... He's applying for a \$25,000 grant. Part of the costs covered by that amount will be \$7,840.00 in ARRL memberships, which we will pay back to the League.

• A question was asked - How many people will be accepted for this? Answer - up to 22 candidates; the number of club members needed will be determined later.

• Nomar NP4H expressed his gratitude.

### **New Business -**

# July 2022 FLARC

### **Business Meeting, continued**

• Gene WO2W – Regarding the Auction, Gene has been in touch with Bill WA2WL - Auction Chairman. An email was also sent to Jimmy Graf about saving the date at the Senior Center, like in past years. Nomar NP4H mentioned lots of volunteers will be needed. Dave KD2JIP stated that he will need people to work the payment desk, use software and have a dry run.

- Brian KD2KLN Requested permission to throw out junk in the blue cart in the basement. Permission was granted.
- Noel N2MSA organized some stuff in the basement including two black power cables.

• Dave KD2JIP - asked if he should return the spool of CAT5 network cable which wasn't used on Field Day. This would amount to an \$85 return. Consensus was to return for refund; we can always purchase again if needed.

• Steve KD2BYX asked if a network cable going to the roof can be installed. Paul W2IP responded that it is not feasible.

### **Health and Welfare**

- Nomar will be getting a CT scan sometime next week.
- Judith KC2LTM stated that Nancy Beatie was sent a get well card.

Nomar stated the Piscataway Hamfest is next week, followed by the Sussex Hamfest and Vanfest on July 17th and the Antique Radio Show is on July 24th and July 25th at the shore.

8:15 PM - Motion to Adjourn -

Motion to close the meeting by Skip KD2BRV, Seconded by Gene WO2W.

Respectfully submitted on July 2, 2022 by David KD2MOB. 73.



### **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	КС2КСС
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	W2KBF and
	Susan	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!!!

### **2019-20 Member Profiles**

The year is now complete and here is a list of the 2019 monthly profiles. See past profiles elsewhere in *The Resonator* to check back in the archives to see each featured member's background.

Month	Name	Call Sign
January 2019	Dave	KD2JIP
February	Jim	K2ZO
March	Zach	KC2RSS
April	Bob	N2SU
May	Stan	КС2К
June	Steve	WA2BYX
July	Roger	K2RRB
August	Judith	KC2LTM
September	Chris	W2TU
October	Bob	N2SU
November	Bob	WA2ISE
December	Carol	KD2NMV
January 2020	Gordon	W2TTT
February	Chris	KD2JQZ
March	Glenn	KD2MDR
April	Steve	K2SAB
May	Ahmed	NJ8Y
June	Charlie	AC2ZU
July	Jim	N2JLF
August	Walt	K3DQB
September	Gregg	N2ECH
October	Jim	W2KNG
November	Dave	KD2SGM
December	Bill	NB1ILL

# **2021 Member Profiles**

Here is a list of the 2021 monthly profiles.

Month	Name	Call Sign
January 2021	Ed	KD2TVT
February	John	W2USN
March	Noel	W2MSA
April	Gene	KD2VNI
Мау	Berlotte	KD2MYF
June	Noel	N2OEL
July	Roy	KD2VMX
August	Jeremy	K2GRI
September	Bill	WA2WL
October	Nomar	NP4H
November	David	AC2GL
December	Paul Brennan	N6FB/MØJOV