The Ham Arundel News

Providing Fellowship and Community Service through Amateur Radio Since 1951

November 2017 ***39th Year of Publication***

Global Effort Under Way to Restore Dominica's Amateur Radio Capabilities

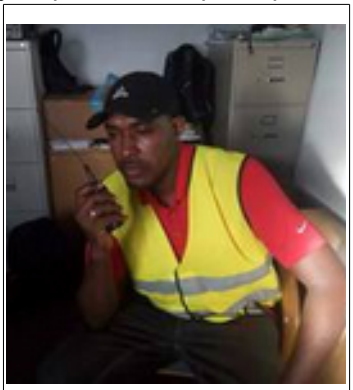
10/13/2017

(Ed. Note: This is one of the places AARC Past President Rick Creager, KK4GV (SK) visited on vacation)

The Yasme Foundation, Yaesu USA, the Foundation for Amateur International Radio Service (FAIRS), and individual GoFundMe donors have joined forces to restore country-wide Amateur Radio communication on Dominica in the aftermath of Hurricane Maria. Private pilots Brian Machesney, K1LI, and Dave Bridgham, N1AHF, are set to take off on October 14 from Vermont with a planeload of Amateur Radio gear, relief equipment, and supplies to better prepare the small Caribbean island nation for disasters. Bridgham is a volunteer for the Dominica "Angels to Eden" airlift spearheaded by round-the-world pilot Brian Lloyd, WB6RQN.

Dave Bridgham, N1AHF (left), and Brian Machesney, K1LI

"Almost a month after Hurricane Maria, there are still families waiting to hear whether their loved ones are alive or dead or in serious need of medical attention," said Michelle Guenard, Machesney's spouse and spokesperson for the joint effort. Guenard pointed out that in the aftermath of Hurricane Maria, which devastated Dominica and its telecommunications infrastructure, "the only news of their families and friends was gleaned through the transmissions of local [Amateur Radio] operators." She noted that many were able to listen to live streams of ham radio traffic via Facebook and YouTube live feeds.



Dominican Radio Amateur Marion Marie, J73MP.

Guenard explained that many Dominica expatriates now want to equip their home villages with ham radio stations, and she started a GoFundMe campaign for that purpose. "Once this equipment arrives and is installed throughout the island, we will have achieved our goal, 'to provide every human being on the island of Dominica with the ability to call for help.'"

Working with a network of contacts developed over decades of visits to Dominica, Machesney and Guenard established a partnership that has pulled together more than $30,000 worth of radio equipment and solar-powered battery-charging stations. "When fully deployed, Dominica will be part of a robust local, regional, and worldwide network of Amateur Radio stations," Machesney said.

"Many of our members lost everything in the hurricane," said Joseph Raymond, J73RJ, President of the Dominica Amateur Radio Club Inc. (DARCI). "The donated equipment will dramatically improve our near-term ability to connect towns and villages all over Dominica, and to stay connected well into the future."

Yasme President Ward Silver, N0AX, said his organization began working with the Dominica Amateur Radio Club and Dominica's National Telecommunications Regulatory Commission (NTRC) last year to recruit and equip new ham radio operators for just such an emergency. "We are grateful to Yaesu, FAIRS, and the individual donors for joining us in this effort," Silver said.

Mikio Maruya, WA6F, Executive Vice President of Engineering for Yaesu USA's Amateur Division, said Yaesu "welcomes this opportunity to assist Dominica with its recovery from the devastation of Hurricane Maria."

FAIRS President Dave Larsen, KK4WW, pointed out that access to reliable power sources for ham radio equipment is often overlooked when preparing for emergencies. "These portable off-grid systems will help expand the coverage of Dominica's surviving repeater, permit 24/7 field operations by recharging batteries on handheld radios, and supply base stations in villages that are likely to remain without commercial power for some time to come," Larsen said.

Used with permission The ARRL Letter for October 19, 2017

^^

AARC
Slate of Officers for 2018

In accordance with the bylaws, this serves to notify AARC members of the upcoming Election of Directors.

The slate for the upcoming election is as follows:

President: Rich Grace, KB3ZYO
Vice Pres: Tom Wagner. N3MGE
Secretary: Keith Miller, AE3D
Treasurer: Justin Leishman, KC3BJT

Directors: (**Vote for 3)**
Tim Nagel, KB3YQK
Mark Bova, W2PAW
Jim Wallace, N3ADF

The election will be held at the next Business Meeting, December 7, 2017, at 7:30 p.m. at the AARC Clubhouse.

AARC STAFF – 2017

OFFICERS

President:
Rich Grace, KB3ZYO 410-500-1092
yamahaturbo83@gmail.com

Vice Pres:
Tom Wagner 410-946-4564
tominmd72@aol.com

Secretary:
Keith Miller, AE3D 240-158-0423
ae3d@graykitty.net

Treasurer:
Justin Leishman /KC3BJT _____
kc3bjt@icloud.com

Directors:
Timothy Nagel / KB3YQK _____
kb3yqk@gmail.com
Mark Bova / W2PAW 240-274-6294
w2paw@markbova.com
Jim Wallace, N3ADF 301-464-0661
n3adf@arrl.net

REPRESENTATIVES

Trustee:
Dick Mayo / WW3R 410-956-5099
ww3r.maio@gmail.com
Resident Agent:
Bob Jeter / K3RSJ 410-315-9403
jeter904@verizon.net
DFRC Rep:
Milford Craig / N3WYG 301-218-8867
n3wyg@w3vpr.org
Public Relations:
Paul Bowling / W4ATN 410-934-1355
paul@w4atn.com
Assistant: Holly Bevan / N3MB 410-923-0229
n3mb@arrl.net
Program Chairman:
Rich Grace, KB3ZYO 410-500-1092
yamahaturbo83@gmail.com
ARES/RACES:
Ron Boller / N3WOF 410-956-6127
n3wof@arrl.net
Joint 440 Comm:
Gordon Davids / WJ3K 410-647-2956
g.davids@verizon.net
FAR Representative
Ed Brown / AA3EB 301-856-3317
brownmejr@comcast.net

COMMITTEE COORDINATORS

Public Service:
Erick Graves / WA3G 410-987-7670
erick.g@comcast.net
Repeater Ops:
John Williams / K8JW 410-647-7406
k8jw@verizon.net
VE Team:
Rick Steer - AB3XJ 443-871-2583
ab3xj@yahoo.com
Training:
Keith Miller / AE3D 301-805-1854
ae3d@graykitty.net
Packet Radio:
Jonathan Grafe / KB3ZVO 240-426-2664
grhear@yahoo.com
Newsletter:
Milford Craig / N3WYG 301-218-8867
newsletter@w3vpr.org
Web Page:
Mark Bova / W2PAW 240-274-6294
w2paw@markbova.com
Field Day:
Rich Grace / KB3ZYO 410-500-1092
yamahaturbo83@gmail.com
MDC QSO Party
_____ _____
_____
MD Slow Net:
Bruce Stewart / W8CPG 304-940-3076
chickenfarm9@gmail.com
ARRL MDC Section Manager :
Martin J. Pittinger / KB3MXM 410-356-7899
kb3mxm@arrl.net

^^

VE Testing Schedule

Second Saturday of each month – Noon – AARC – Steve Kelly / K3BAY 410-975-6246
Third Saturday of each month – 9AM – Laurel ARC **–** John Creel, 301-572-5124
Fourth Tuesday of each month – 6PM – MMARC – Mike Montrose / KA2JAI 443-310-4907 web site is tinyurl.com/marylandmobileers

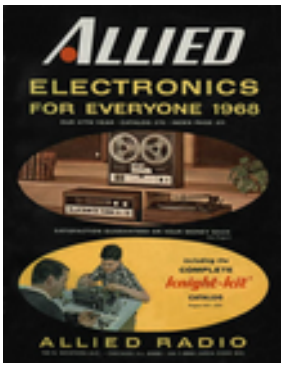
To all exams bring:

- Picture ID
- Social Security Number or FCC Registration Number (FRN)
- **ORIGINAL** and a **COPY** of current FCC amateur radio license
  ORIGINAL and a COPY of all element credits (eg., FCC letters, old licenses or unexpired Certificates of Successful Completion of Examination-CSCE)

Catalogs Are About Possibilities

By Dan Romanchik, KB6NU

When I was a kid, I used to regularly get catalogs, such as the Allied Radio and Lafayette Radio catalogs shown below, and pore over them for hours. Even if I couldn't afford to buy the latest Knight-Kit or Lafayette shortwave radio, I could imagine what it would be like.



These catalogs were chock full of possibilities.

I spent many hours poring over the Allied and Lafayette catalogs as a kid. These two are from 1968, when I was 13 years old.

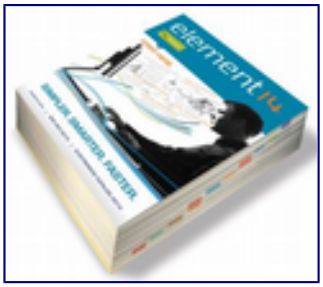
So, you can imagine how I felt when, last Thursday, I found both the Autumn/Winter 2017 DX Engineering catalog and the 2018-2019 Newark Electronics/element14 catalog in my mailbox.

DX Engineering has really taken the amateur radio world by storm over the last ten years or so. I probably don't have to tell you about that. If you're an active amateur radio operator, I'm sure that you have heard about—and probably ordered from—DX Engineering.

I think that DX Engineering did a very smart thing by investing the money in a print catalog. There's something about browsing a print catalog that is just more satisfying than browsing online.

DX Engineering has just about everything you need to have fun with amateur radio. The one glaring omission? They still don't carry my study guides!

The Newark/element14 2018-2019 catalog is a completely different beast. Amateur radio operators are only a small part of Newark/element14's market, but one nonetheless. They have, for example, attended the Dayton Hamvention for many years.



As such, the catalog is not a "ham radio" catalog, but if you build stuff at all you'll find something of interest in its 1,799 pages. It includes nearly any kind of electronic part that you might need.

The section that might you might want to start with is the "makerspace" section. In this section, you'll find Raspberry Pis, BeagleBones, and even micro:bits. They really have everything, though, including passive and active components, connectors, cable, and enclosures.

Like I say, these catalogs are all about possibilities. You can search each company's website and find the parts they carry quickly and easily, but that experience is just not the same as browsing a print catalog and daydreaming about what you might find there.

So, get your own copies—they're free—and page through them. I'd be surprised if you didn't run across something that you didn't know about before, and it gave you some ideas about your next amateur radio project.

Used with permission

^^

November 2017 Frequency Measuring Test Set

Frequency Measuring Test (FMT) manager Connie Marshall, K5CM, promised something "a little different" for the fall FMT, which begins on November 3 at 0200 UTC. Instead of measuring a single frequency, this test will measure a pair of frequencies -- a "two-tone" test. Although the two frequencies will not jump back and forth at the rate of an actual FSK signal, participants will be measuring both signals *and* the shift between them.

The test will be conducted on 80 and 40 meters. Following the call up, the test signals will begin on the announced frequency. This is the lower of the two test signal frequencies. Approximately 1 minute later, the test signal will stop and resume on the second, somewhat higher frequency. The shift between the frequencies will be approximately the same as a standard 170 Hz shift RTTY signal. Your job is to measure the frequency of the initial, lower frequency RF signal, and the audio frequency (AF) shift between the two test signals. Details are on the Frequency Measuring Tests page.

Used with permission "In Brief" The ARRL Letter for October 26, 2017

^^

NEW HF OPERATORS - THINGS TO DO

A receiving antenna can make all the difference on the lower bands, as it can provide a better the signal to noise ratio than typical transmitting antennas. Some examples that aren't too complex and don't take up too much room include a loop or flag. At times you can even use an existing antenna for a different band. For example, at my QTH during a VP8 DXpedition a few years ago the signals on 160-meters were not receivable using a dipole, but they were audible on a 40-meter vertical. The *Low-Band DXing* book by ON4UN has many fine examples of receiving antennas, and W8JI's website describes theory and practice.

Used with permission The ARRL Contest Update for October 4, 2017

^^

Repeaters and Nets

2 Meter Repeaters

Location	Frequency	Tone	Notes
Davidsonville	147.105+	107.2	AARC Repeater with morning traffic net.
Glen Burnie	147.075+	107.2	AARC repeater Located in Northern AA County.
BrandyWine	147.150+	114.8	SMARC Repeater.
Prince Frederick	145.350-	156.7	SPARC/CARC Repeater.
Laurel	147.225+	156.7	Laurel ARC Repeater.
Millersville	146.805-	107.2	Repeater.

1.25 Meter Repeaters

Location	Frequency	Tone	Notes
Davidsonville	223.880-	107.2	AARC 1.25M repeater *check to see if tied into 7.105...
Millersville	224.560-	107.2	AARC repeater Located in Northern AA County.

70cm Repeaters

Location	Frequency	Tone	Notes
Davidsonville	444.400+	107.2	AARC 70 cm Repeater.
Annapolis	442.300+	107.2	AARC 70 cm repeater
Laurel	442.500+	156.7	Laurel ARC 70 cm Repeater.
Millersville	449.125-	107.2	Maryland Mobileers Repeater.
Upper Marlboro	443.600+	103.5	SMARC 70 cm Repeater.

Packet Stations

Location	Frequency	Call	Notes
Davidsonville	145.050	W3VPR	AARC Club packet node running JNOS
Davidsonville	145.010	W3VPR-5	Digipeter Relay to EOC Winlink
Millersville	145.010	W3AAC-5	Digipeter Relay to EOC Winlink
Glen Burnie	145.010	W3AAC-10	EOC Winlink system and digipeter

Amateur Radio nets

Name	Frequency (in Mhz)	Day	Time
Morning Commuter Net	147.105+ PL 107.2	Weekdays	0600
AARC Talk Net	147.105+ PL 107.2	Wednesday	2000
AA County ARES Net	146.805- PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670-	Daily	1830
Boating Net	146.805- PL 107.2	Wednesday	1930
Maryland Emergency Phone Net	3.920	Daily	1800
Maryland-DC-Delaware Traffic Net	3.643	Daily	1900 and 2200
Maryland Slow Net	3.563	Daily	1930
React Net	147.105+ PL107.2	1st Sunday	1930

We use **simplex 146.430 Mhz** frequently enough that you should probably program that into your HT or mobile. This is the go-to frequency for many 5K race/walk volunteering efforts, local communication, Field Day setup, and the like when we're not using a repeater.

The *Ham Arundel News* is the monthly official publication of

The Anne Arundel Radio Club, Inc.
(ARRL Club No. 0484).

Editor: Milford Craig / N3WYG
Send newsletter articles, questions and information to **Milford** at **newsletter@w3vpr.org**
Deadline for submissions – The Saturday after the 3rd Thursday of the month

Mailing Address:
Anne Arundel Radio Club
Post Office Box 308
Davidsonville, MD 21035

Meetings:
General Business 1st Thursday at 7:30 PM
Board Meeting 2nd Thursday at 7:30 PM
Program/Activity 3rd Thursday at 7:30 PM

Dues:
$30 per year, payable December 1st
Discounts available for family members and students

World Wide Web: **www.w3vpr.org**

AARC Supports The Maryland Slow Net:
3.563 MHz CW 7:30 P. M. Daily

^^

Free Money for AARC!
ARRL Membership Reminder

ARRL affiliated clubs receive a commission for every new ARRL membership and renewal they submit to ARRL Headquarters. Clubs retain a portion of the dues for each regular or senior membership submitted to ARRL Headquarters:

Clubs retain $15 for each new membership OR lapsed membership (of two years or more).
Clubs retain $2 for each renewal,
A RENEWING MEMBER can renew at any time, even before their current membership expires.

Send your application and payment (made out to AARC) to the club treasurer.

Mark Your Calendars

REGULAR ACTIVITIES

Club Meetings are held on the first and third Thursdays of the month from 7:30 to 9PM at the clubhouse located at the Davidsonville Family Recreation Center in Davidsonville, MD

Free License Exams every 2nd Saturday of the Month - Check in at Noon, Exams at 1PM - At the clubhouse - Contact Steve/K3BAY k3bay@w3vpr.org

Weekly AARC 2-Meter Net on 147.105 (Typically linked to 147.075 and 444.400) every Wednesday at 8 PM - All Welcome

2 meter Morning Commuter Net on 147.105 (Typically linked to 147.075 and 444.400) every morning 6:30 am to 9:00 am.This is the famous Holly-net. Pre-Holly-net starts at 5 AM or so.

EVENT SCHEDULE

Thursday, November 2 7:30pm
AARC Club meeting, newcomers always welcome.

Thursday, November 9 7:30pm
AARC board meeting

Saturday, November 11 8:00am
AARC (support) Annapolis Striders - Veteran's Day 50K Run

Thursday, November 16 7:30pm
AARC Club meeting, newcomers always welcome.

Sunday, November 19 7:00am
AARC (support) Cold Turkey 10k

NOTICE:
The club has a new Google Calendar under test. The trial is open to anybody who understands the address may change at some point in the future. Get the latest AARC events on your Gmail calendar, iPhone, or Android device.

Amateur Radio Volunteers in Puerto Rico Meet a Variety of Communication Needs

The Amateur Radio volunteers who deployed as American Red Cross volunteers to Puerto Rico as part of the "Force of 50" this past weekend have been focusing their efforts where their help is most needed. ARRL CEO Tom Gallagher, NY2RF, said the volunteers, in general, will provide communications for local law enforcement and utility managers, island-to-mainland health-and-welfare traffic, and contact with the island's more remote areas.

ARRL Emergency Preparedness Manager Mike Corey, KI1U, said arriving volunteers initially gathered at the Convention Center in San Juan, which is now serving as Puerto Rico Emergency Management Agency (PREMA) Headquarters. Their first night, a local church offered accommodations, he said, and volunteers slept on pews that had been pushed together.

Since the storm struck Puerto Rico on September 20, ARRL Section Manager Oscar Resto, KP4RF, and other volunteers have staffed VHF and HF nets at the American Red Cross temporary headquarters in San Juan, despite damage to their own homes. The 24/7 net covers nearly two-thirds of the island and has been handling traffic to and from the power company, Autoridad de Energía Eléctrica (Electric Power Authority -- AEE), and state and local authorities. The electric distribution infrastructure suffered extreme storm damage, and only about 9% of customers have power. Twelve team members were assigned to provide communication for engineers involved in repairing power distribution centers.

"My station will be QRT for a long time," said Alfredo (Al) Velez Ramos, WP3C/NP4DX.

An Amateur Radio station has been installed and an operator embedded at the Puerto Rico Emergency Operations Center (PREOC). Radio amateurs also were asked to establish VHF communication capabilities at 51 hospitals throughout the island, so they can have direct contact with the EOC.

Volunteer Val Hotzfeld, NV9L, told ARRL in an October 4 update that the team on the ground has recruited three local hams to handle Amateur Radio communications at hospitals in Jayuya, Humacau, and Caguas. "They were on site and began handling hospital traffic today," she said in her October 4 situation report. "We successfully received and forwarded traffic from three hospitals needing water and fuel."

Puerto Rico volunteers and local hams alike have successfully passed "lots of traffic" to net control, which has been forwarded on to the appropriate agencies. Some examples included getting an oxygen tank to a nursing home resident and insulin to a diabetic youth.

A local radio amateur was recruited to handle hospital communications at Centro Medico. "This is the main hospital on the island and needs communication to handle transfers from the other hospitals and medical centers," she said. The Puerto Rico team has begun checking with hospitals to see which ones have telephone service, before dispatching additinal operators.

Hotzfeld said they've received a request from AEE, which operates the precarious Guajataca hydroelectric dam, to deploy another operator to the dam and assist those fixing the channel that delivers water to about 350,000 in the Quebradilla and Isabella area. "We are now also being tasked with doing the same for all the police departments in Puerto Rico," she added. "We are gathering information on roads that are open from the EOC and providing it to the Red Cross for their missions."

The Amateur Radio liaison at the EOC is working with federal officials to co-locate Amateur Radio repeaters on tower sites now being restored to improve communication island-wide. The volunteer team was approached by the Southern Baptist disaster team to discuss the possibility of utilizing a few of their team members who hams to help with communication tasks.

A FEMA vehicle navigates a muddy back road, where trees and foliage have been stripped bare. [FEMA photo]

Volunteers Jeremy Dougherty, NS0S, and Bobby Price, KB4ROR, are in Yauco. "We installed our rigs in the fire truck and gave them our handhelds. It left us no other radio for local contact," the pair reported on October 3. They reached out to Marcos Pereda, KP3CA, in Yauco, who loaned the team his FTM-100DR.

They didn't have an antenna that would offer sufficient range, so they improvised, fashioning a "tape measure" five-element Yagi, using supplies from a local hardware store and a coax jumper from their extra HF radio. "We installed everything and made contact with N5TGL and N0CSM, who are 50 miles away, [using] the repeater between us," they said.

Volunteers Jeremy Dougherty, NS0S (left), and Bobby Price, KB4ROR, and their tape-measure Yagi.

There have been problems filling resource requests from remote areas of the island. A message was relayed on

WinLink by Juan Sepulveda, KP3CR, from volunteer team members in Mayagüez on behalf of Lares Mayor Roberto Pagán, who had put out an urgent call for water for the town of some 5,000.

According to one FEMA official, the White House situation room is extremely pleased and enthusiastic about the service Amateur Radio volunteers are providing in Puerto Rico.

An HF station with *Winlink* capability and a VHF/UHF station have been set up in the FEMA disaster field office, and volunteers have been reporting in by radio from around the island to post situation reports. Four volunteers were positioned to accompany and provide VHF communication at Red Cross distribution centers on a daily basis. Two volunteers also were sent to Culebra Island to establish VHF and HF communication there, the first since the storm.

Used with permission The ARRL Letter for October 5, 2017

^^

ARRL Expresses Gratitude for Outpouring of Ham Aid Donations

ARRL thanks the Amateur Radio community for its generosity in support of the ARRL Ham Aid Fund, which is making it possible to provide relief and recovery communications in Puerto Rico. Overall, there have been more than 600 donations to the Ham Aid program in response to a call from ARRL President Rick Roderick, K5UR, and nearly $125,000 has come in from clubs and individuals. Several Amateur Radio retailers and manufacturers also have stepped up to donate needed equipment. Roderick said he was amazed at the overwhelming response, including those who answered his call to join the "Force of 50" now deployed in Puerto Rico.

"The Amateur Radio community really came together in providing donations of equipment, funding, and personnel in response to the great need in Puerto Rico," Roderick said. "The scale of these efforts and the response is making history. This has got to be one of Amateur Radio's greatest moments. Our sincere thanks go to all involved."

The list of those offering their generosity and support is long and growing. Contributors include International Amateur Radio Union Region 2 (IARU R2), which donated two Ham Aid kits in addition to a monetary donation; the Yasme Foundation, which made a monetary contribution to the Ham Aid Fund and donated critical equipment, and the Northern California DX Foundation (NCDXF). Donations also came from the Orlando Amateur Radio Club (OARC) and from Orlando HamCation®.

Amateur Radio dealers and retailers have made in-kind donations. Quicksilver Radio (QSR) has contributed antennas and accessories, Radiowavz has provided antennas, and Heil Sound Ltd. has donated headsets with cables. Other corporate and retail in-kind contributors include ABR Industries, AT&T, Icom America, Yaesu, Ham Radio Outlet (HRO), and DX Engineering.

Monetary donations also have arrived from the CW Operators Club (CWops); the SouthEastern DX and Contesting Organization (SEDCO), sponsor of W4DXCC; the Northern California Contest Club (NCCC); the Fort Myers Amateur Radio Club (FMARC); the Wahkiakum Amateur Radio Club; the North Shore Radio Club (NSARC), and the Steel City Amateur Radio Club (W3KWH).

Ham Aid was created in 2005 in response to the need for equipment and resources to support the Amateur Radio response to hurricanes in the US and the Caribbean, and Ham Aid kits are in use throughout Puerto Rico for the Hurricane Maria relief and recovery effort.

Ham Aid equipment will be needed for future disasters. "Your donation to Ham Aid will help us now, and contributions to Ham Aid are 100% tax deductible," President Roderick said.

You can donate online (select "Ham Aid" from the Donation Form list), or by mail by printing a donation form and mailing it with your check payable to ARRL, noting "Ham Aid" on the memo line, to ARRL, 225 Main St., Newington, CT 06111 USA.

Used with permission The ARRL Letter for October 12, 2017 I

^^

QCWA Honors William Orr, W8NPU, with its 80th Anniversary Award

The Quarter Century Wireless Association (QCWA) has honored centenarian and ARRL member William (Bill) Orr, W8NPU, of Columbus, Ohio, with its 80th Anniversary Award. QCWA member Don Fuhr, K8KSM, presented Orr with the framed award certificate. Orr has been licensed for 82 years. While he is no relation to *the* Bill Orr, W6SAI, his story nonetheless is an interesting one. According to the QCWA, Orr earned his commercial 2nd class radiotelephone license at age 18 in 1935 and began a lengthy career in radio and television broadcast engineering. On the basis of his success in obtaining the 2nd class commercial ticket, he also was granted a Class A Amateur Radio license. Orr previously held WA6NKM. The QCWA award presentation took place at Orr's home, which he shares with his wife, Mary. -- *Thanks to Ken Oelke, VE6AFO, QCWA*

Used with permission "In Brief" The ARRL Letter for October 26, 2017

^^

Revised ARRL Frequency Chart Now Available

An updated ARRL frequency chart is now available for printing and downloading. The chart has been updated to include our new bands at 2,200 and 630 meters.

The new chart is available as PDFs in these formats: 8.5 × 11 grayscale; 8.5 × 11 black and white; 8.5 × 11 color, and 11 × 17 color.

Used with permission The ARRL Letter for October 5, 2017

^^

ARRL Expresses Gratitude for Outpouring of Ham Aid Donations

ARRL thanks the Amateur Radio community for its generosity in support of the ARRL Ham Aid Fund, which is making it possible to provide relief and recovery communications in Puerto Rico. Overall, there have been more than 600 donations to the Ham Aid program in response to a call from ARRL President Rick Roderick, K5UR, and nearly $125,000 has come in from clubs and individuals. Several Amateur Radio retailers and manufacturers also have stepped up to donate needed equipment. Roderick said he was amazed at the overwhelming response, including those who answered his call to join the "Force of 50" now deployed in Puerto Rico.

"The Amateur Radio community really came together in providing donations of equipment, funding, and personnel in response to the great need in Puerto Rico," Roderick said. "The scale of these efforts and the response is making history. This has got to be one of Amateur Radio's greatest moments. Our sincere thanks go to all involved."

The list of those offering their generosity and support is long and growing. Contributors include International Amateur Radio Union Region 2 (IARU R2), which donated two Ham Aid kits in addition to a monetary donation; the Yasme Foundation, which made a monetary contribution to the Ham Aid Fund and donated critical equipment, and the Northern California DX Foundation (NCDXF). Donations also came from the Orlando Amateur Radio Club (OARC) and from Orlando HamCation®.

Amateur Radio dealers and retailers have made in-kind donations. Quicksilver Radio (QSR) has contributed antennas and accessories, Radiowavz has provided antennas, and Heil Sound Ltd. has donated headsets with cables. Other corporate and retail in-kind contributors include ABR Industries, AT&T, Icom America, Yaesu, Ham Radio Outlet (HRO), and DX Engineering.

Monetary donations also have arrived from the CW Operators Club (CWops); the SouthEastern DX and Contesting Organization (SEDCO), sponsor of W4DXCC; the Northern California Contest Club (NCCC); the Fort Myers Amateur Radio Club (FMARC); the Wahkiakum Amateur Radio Club; the North Shore Radio Club (NSARC), and the Steel City Amateur Radio Club (W3KWH).

Ham Aid was created in 2005 in response to the need for equipment and resources to support the Amateur Radio response to hurricanes in the US and the Caribbean, and Ham Aid kits are in use throughout Puerto Rico for the Hurricane Maria relief and recovery effort.

Ham Aid equipment will be needed for future disasters. "Your donation to Ham Aid will help us now, and contributions to Ham Aid are 100% tax deductible," President Roderick said.

You can donate online (select "Ham Aid" from the Donation Form list), or by mail by printing a donation form and mailing it with your check payable to ARRL, noting "Ham Aid" on the memo line, to ARRL, 225 Main St., Newington, CT 06111 USA.

Used with permission The ARRL Letter for October 12, 2017

^^

Update: Secure Forms on the ARRL Website

The security of your information on the ARRL website is extremely important to the League. ARRL has taken steps to encrypt/secure all forms on the site that contain personal or account information by using Hyper Text Transfer Protocol Secure (HTTPS).This includes the Shopping Cart checkout, the ARRL Donation Form, the site Login form, the Edit your Profile form, and New User registrations.

To verify that a web page is secure, look for the green closed padlock icon near the web address at the top of the browser window. The Google Chrome (v. 62) web browser will display a "Not Secure" warning when users enter text in a form on an unencrypted/insecure web page (HTTP). (Chrome already marks HTTP pages as "Not secure," if they have password or credit card fields.).

The ARRL website does have numerous user-input forms on the site that are currently not encrypted. These include the site search, license class and exam searches, and several others. These forms do not contain any sensitive information and can be filled out safely, despite the updated warning from Chrome. ARRL is working toward securing all forms to provide a better visitor experience in the future. Contact the ARRL Circulation Department with any questions or concerns.

Used with permission The ARRL Letter for October 5, 2017

^^

Chinese CAS-4A and CAS-4B Amateur Radio Satellite Transponders Activated

The Amateur Radio linear (SSB/CW) inverting transponders on the CAS-4A and CAS-4B satellites were activated on October 18. CAMSAT's Amateur Radio payloads piggybacked on the optical remote-sensing micro-satellites OVS-1A (CAS-4A) and OVS-1B (CAS-4B), launched on June 15. CAS-4A (call sign BJ1SK) has a CW telemetry beacon on 145.855 MHz, and 4.8 kB GMSK telemetry on 145.835 MHz. The uplink is 435.220 MHz, the downlink is 145.870 MHz (20 kHz passband). CAS-4B (call sign BJ1SL) has a CW telemetry beacon on 145.910 MHz, and 4.8 kB GMSK telemetry at 145.890 MHz. The uplink is 435.280 MHz, the downlink is 145.925 MHz (20 kHz passband). -- *Thanks to Southgate Amateur Radio News via AMSAT-UK*

Used with permission “In Brief” The ARRL Letter for October 26, 2017

^^

Communications Interoperability Training with Amateur Radio Community Set

Elements of the US Department of Defense will conduct a "communications interoperability" training exercise November 4-6, once again simulating a "very bad day" scenario. Amateur Radio and MARS organizations will take part.

"This exercise will begin with a notional massive coronal mass ejection event which will impact the national power grid as well as all forms of traditional communication, including landline telephone, cellphone, satellite, and internet connectivity," Army MARS Program Manager Paul English, WD8DBY, explained in an announcement.

During the exercise, a designated DOD Headquarters entity will request county-by-county status reports for the 3,143 US counties and county equivalents, in order to gain situational awareness and to determine the extent of impact of the scenario. Army and Air Force MARS organizations will work in conjunction with the Amateur Radio community, primarily on the 60-meter interoperability channels as well as on HF NVIS frequencies and local VHF and UHF, non-internet linked Amateur Radio repeaters.

Again this year, a military station on the east coast and the Fort Huachuca, Arizona, HF station will conduct a high-power broadcast on 60-meter channel 1 (5,330.5 kHz) on Saturday from 0300 to 0315 UTC. New this year will be an informational broadcast on Sunday, on 13,483.5 kHz USB from 1600 to 1615 UTC. Amateur Radio operators should monitor these broadcasts for more information about the exercise and how they can participate in this communications exercise, English said.

"We want to continue building on the outstanding cooperative working relationship with ARRL and the Amateur Radio community," English said. "We want to expand the use of the 60-meter interop channels between the military and amateur community for emergency communications, and we hope the Amateur Radio community will give us some good feedback on the use of both the 5-MHz interop and the new 13-MHz broadcast channels as a means of information dissemination during a "very bad day" scenario.

Contact English for more information or questions about this exercise.

Used with permission The ARRL Letter for October 26, 2017

^^

NEW HF OPERATORS - THINGS TO DO

A receiving antenna can make all the difference on the lower bands, as it can provide a better the signal to noise ratio than typical transmitting antennas. Some examples that aren't too complex and don't take up too much room include a loop or flag. At times you can even use an existing antenna for a different band. For example, at my QTH during a VP8 DXpedition a few years ago the signals on 160-meters were not receivable using a dipole, but they were audible on a 40-meter vertical. The *Low-Band DXing* book by ON4UN has many fine examples of receiving antennas, and W8JI's website describes theory and practice.

Used with permission The ARRL Contest Update for October 4, 2017

^^

November 2017 Frequency Measuring Test Set

Frequency Measuring Test (FMT) manager Connie Marshall, K5CM, promised something "a little different" for the fall FMT, which begins on November 3 at 0200 UTC. Instead of measuring a single frequency, this test will measure a pair of frequencies -- a "two-tone" test. Although the two frequencies will not jump back and forth at the rate of an actual FSK signal, participants will be measuring both signals *and* the shift between them.

The test will be conducted on 80 and 40 meters. Following the call up, the test signals will begin on the announced frequency. This is the lower of the two test signal frequencies. Approximately 1 minute later, the test signal will stop and resume on the second, somewhat higher frequency. The shift between the frequencies will be approximately the same as a standard 170 Hz shift RTTY signal. Your job is to measure the frequency of the initial, lower frequency RF signal, and the audio frequency (AF) shift between the two test signals. Details are on the Frequency Measuring Tests page.

Used with permission "In Brief" The ARRL Letter for October 26, 2017

^^

ARRL Mryland-DC Section Reflectors

We introduced a new MDC Section reflector, ARRL MDC Section Winlink Training Group for P2P and Hybrid networks, or MDCQRV for short. Please make use of this tool to sharpen skills and fine tune your configuration files. The URL is: <https://groups.yahoo.com/neo/groups/MDCQRV/info>.

The new ARRLMDCSection Yahoo Reflector is now available. If you are not a member. . .you should be!! We now have 86 members this month, same as last month. I encourage you to use this to inform or keep intouch with he rest of your fellow members. With the wide distribution of the "MDC Section News" coming out only once a month, this Yahoo Site with keep you up to date with late breaking news, including a possible disaster call up.

There is very little traffic to clog your in box. You can join at: <https://groups.yahoo.com/neo/groups/ARRLMDCSECTION/info>.

Used with permission 7MDC Section News, October 12, 2017

ARRL Foundation Accepting Scholarship Applications

The ARRL Foundation Scholarship program is now accepting applications from eligible applicants. The deadline to submit applications is January 31, 2018. *All* applicants must be FCC-licensed radio amateurs, and many scholarships have other specific requirements, such as intended area of study, ARRL Division, Section, or state, and license class.This year, the Foundation Board of Directors is offering several new scholarships. These include The Old Man International Sideband Society Scholarship; The K6GO Gale Olson and NA6MB Mike Bender Scholarship; The Harry A. Hodges, W6YOO, Scholarship; the Medical Amateur Radio Council (MARCO) Scholarship, and The Ladies Amateur Radio Association of Orange County Scholarship.

Applicants should review all scholarship descriptions and check off the ones for which they are eligible. More information is on the ARRL Foundation Scholarship Program page.

Used with permission The ARRL Letter for October 12, 2017

^^

ARRL Foundation Announces the NEAR-Fest Memorial Scholarship

A new scholarship is available to radio amateurs. The New England Amateur Radio Festival (NEAR-Fest) Memorial Scholarship, administered by the ARRL Foundation, commemorates NEAR-Fest team members who have become Silent Keys, and is intended to provide funding toward the educational expenses of a currently licensed Amateur Radio operator who is pursuing a post-secondary education.

Applicants must be US citizens or permanent residents, reside in the ARRL New England Division (Maine, New Hampshire, Vermont, Rhode Island, Connecticut, Massachusetts), and have held an Amateur Radio license for at least 1 year prior to the date of application. Preference will be given in descending order of license class as well as to applicants pursuing full-time studies at a 4-year undergraduate degree-granting institution, pursuing post-graduate studies (any degree), or enrolled in radio communications at a 2-year technical school.

The initial scholarship will be awarded for the 2018-2019 academic year. Scholarships are for the exclusive use of the winner to be applied to tuition, books, mandatory fees, on-campus housing, and other bona fide educational expenses.

The ARRL Foundation is currently accepting applications from eligible radio amateurs pursuing higher education. More than 80 scholarships ranging from $500 to $5,000 will be awarded in 2018. All applicants must submit a completed online application. Transcripts are due by February 15, 2018.

Used with permission The ARRL Letter for October 26, 2017

^^

Ham Radio Bridging the Gap in Wildfire-Stricken California

More than a dozen wildfires in Northern California have damaged or destroyed cellular telephone and Internet infrastructure in some areas, and Amateur Radio has helped to fill the communication gap. Mendocino County Sheriff Thomas Allman **told news media** on October 10 that damage to cell towers and fiber optic telephone phone and computer lines had left officials relying on Amateur Radio operators to communicate with area hospitals.

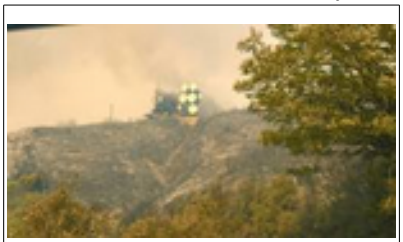
ARRL contacted Robin Carter, a resident of the Willits area in Mendocino County, who confirmed to ARRL that ham radio operators until midweek were stationed at all North County hospitals and large nursing homes, supplementing the county's emergency communication system. She said cell and landline telephone service was knocked out at her home, along with the fiber optic Internet connection, although the family has satellite Internet, and conventional Internet service was at least temporarily restored on Wednesday.

Fire on the mountain: Solano County, California. [Elana Leoni photo]

Her husband Mike Carter, KC6MGM, a Mendocino County Community Emergency Response Team (**CERT**) volunteer, had until Wednesday been staffing a station at Howard Memorial Hospital in Willits for 12 hours a day.

Radio amateurs also assisted with communication at Ukiah Valley Medical Center in Ukiah; Northbrook nursing home in Willits; the Mendocino Coast Hospital in Fort Bragg, and Red Cross shelters at Ukiah High School and Willits High School, Robin Carter said.

The Redwood Complex Fire, the northernmost of the fires, was responsible for the Mendocino Countyoutages. The Atlas Fire in Solano and Napa counties is the largest and most disastrous wildfire. It covers more than 42,300 acres and was only 3% contained as of October 11.



Fires have damaged or destroyed telecommunications infrastructure in California.

In Sonoma County, Sonoma County Radio Amateurs (**SCRA**) has been conducting an ARES Fire Watch Net to relay fire and emergency information on its repeater. Auxiliary Communication Service (ACS) Radio

Officer Dan Ethen, WA6CRB, said a controlled **Sonoma County Fire and Emergency Services** RACES/ACS net is also active.

Steve Fischer, K6ETA, told ARRL that the Sonoma County ACS has been continuously supporting shelters in Petaluma since Monday morning, and an operator is at the area Emergency Operations Center (EOC). "I have personally worked 32 hours in the EOC since Monday, and expect to continue through Friday," Fischer told ARRL. "Our efforts helped coordinate the delivery of over 500 cots, breakfasts from the Redwood Empire Food Bank, and many donation and volunteer offers."

Radio amateurs are reported to be supporting shelter operations in Solano County as well.

The fast-moving, wind-driven blazes — 18 large fires in all, according to FEMA — have driven thousands from their homes, killed at least 2 dozen people, and destroyed more than 1,300 homes. FEMA said the fires cover some 150,000 acres in all. Some towns have been virtually leveled. Most of the wildfires are clustered around Santa Rosa, north of San Francisco. According to FEMA, some 106,000 residents are under mandatory evacuation orders, more than 36,500 homes are threatened, and 59 Red Cross and independent shelters are open with 5,117 evacuees.

A state of emergency exists in Napa, Sonoma, Butte, Lake, Solano, Mendocino, Nevada, Orange, and Yuba counties. The California Emergency Operations Center is partially activated.

California Department of Forestry and Fire Protection mobile communications centers (MCCs) are equipped with Amateur Radio stations, but it's not known if any hams have been deployed on any MCCs in the field for the current spate of wildfires.

ARRL East Bay Section Manager John Rabold, KS6M, said their thoughts are with the victims of the wildfire disaster to the north. "Many of us Amateur Radio licensees find ourselves wanting to help," he said, advising that no one should self-deploy to the disaster area.

"Members of the public, including hams, should respond to the area only as recognized members of agencies who are active in the response or at the explicit request of those agencies," he said. "At this point, the Red Cross has not made a request for support from the [East Bay and San Francisco] sections. However, disaster response continues."

Used with permission The ARRL Letter for October 12, 2017

^^

ARRL Maryland / DC Section
TRAFFIC MANAGER'S REPORT

For September, 2017
MDC NTS NETS:

MEPN 1709 W3YVQ QND/30 QNI/428 QTC/44 MINS/793
BTN 1709 AB3WG QND/30 QNI/497 QTC/40 MINS/689
MDD 1709 AA3SB QND/60 QNI/361 QTC/108 MINS/606
MSN 1709 W8CPG QND/30 QNI/131 QTC/25 MINS/696

PSHR: K3IN 145, KK3F 140, W3YVQ 135, W3CB 133, NI2W 122, WB4FDT 110, AA3SB 100, WB3FTQ 95, N3ZOC 90, AB3WG 72;

TFC: KK3F 2496, K3IN 181, WB4FDT 146, AA3SB 105, WB3FTQ 87, W3YVQ 58, N3ZOC 45, AB3WG 25, NI2W 22, W3CB 19

==========

HF PROPAGATION

HF NVIS propagation on MEPN (3820 KHz) was functional throughout August, 2017, except for some degradation during two X-class solar flare events, and a number of M and C class flares, from some very active sunspots. There were local HF blackouts, particularly at sub-solar points and over polar regions. Propagation on 80 meters was affected on those and a few following days, but the MEPN was able to conduct business. As the month progressed we began to see improved fall-like early net propagation, but a few nights on which the MUF dropped below the band adversely affecting the late MDD Net with very weak signals.

MDC RADIOGRAMS AND OTHER MESSAGING

Outlets in each ARES® jurisdiction are needed for daily Radiogram and Radio-email traffic for served agencies, and also for messaging welcoming new hams to the Amateur Service. Join the MEPN, BTN, or MDD nets daily to find out more about how to contribute.

BTN LOCAL NTS TRAFFIC AND TRAINING NET

The BTN continues to meet on 145.33/R (no tone) daily at 6:30PM local time and continues to welcome new amateurs. The availability of an active directed traffic net of the NTS on VHF is exactly why the BTN was established, providing a welcoming place for newcomers to the Amateur Service. Thanks to all the BTN stations checking into the MEPN via Echolink.

MEPN ECHOLINK

MEPN representatives check for Echolink check-ins starting at net call daily via the WB3GXW-L link node (or ***WASH_DC*** conference node backup if the -L node is not available). A number of BTN and MEPN members, as well as stations outside the area, have used Echolink to check in when HF is not available to them. Thanks to all.

MSN CW TRAINING

Remember that the MSN provides CW training daily for newcomers to the mode, or those wishing to refresh their skills, daily at 7:30 PM on 3563 kHz. Each trainee works with an assigned instructor off the net frequency to receive radiograms containing training information. Instructors work with each student at their own desired speed and check-in schedule. All are encouraged to master the art of CW via this net or personal training in order to support and join the ranks of our MDD Section CW net. Robin, AA3SB, MDD NM, and the veteran staff, will be glad to help you advance to the evening CW full Cycle 4 of the NTS.

Thanks to all the Section traffic net NCS stations, DTN/RRI and WL2K stations, liaisons, and traffic handlers

for the continuing effort to keep the nets running and traffic moving.

Thank you for your continued support of MDC integrated ARES® and NTS operations.

73, W3YVQ, MDC ASM, STM

w3yvq atsign arrl dot net

w3yvq atsign winlink dot org from WL2K

Used with permission MDC Section News,October 12, 2017

^^

New Ham Bands Spring to Life; Veteran LF Experimenter Denied Amateur Access to 2200 Meters

10/17/2017

Amateur Radio's two newest bands came to life on Friday the 13th. Both 630 meters (472-479 kHz) and 2200 meters (135.7-137.8 kHz) now are available to radio amateurs who have notified the Utilities Technology Council (**UTC**) of their intention to operate and did not hear anything back during the ensuing 30 days.

"Many of us filed notices with the Utilities Technology Council on September 15, the day the notification procedure was announced," said Fritz Raab, W1FR, who coordinated the ARRL **WD2XSH 630-Meter Experiment**. "We did not expect to hear from the UTC unless they were objecting to amateur operation. Much to our surprise, on Friday, October 13, a number of operators received 'okay' notices. So, the first amateur operations commenced that night."

Some Denied Access to 2200 Meters

UTC e-mails went out to an undermined number of US radio amateurs who had notified the Council, but not everyone got the thumbs up. One of those thwarted in his hopes of operating under his Amateur Radio license on 2200 meters was John Andrews, W1TAG, a long-wave veteran with thousands of hours on the band over the past 15 years or so under his FCC Part 5 Experimental license.

Andrews, who also participated in the ARRL's 630-Meter Experiment, said UTC denied his request because he was within 1 kilometer of a power line using PLC (power line communication). Raab said another who did not pass UTC muster for 2200 meters was Alabamian Dave Guthrie, KN4OK, who is hoping to give 630 meters a try. UTC also told Guthrie that he was within 1 kilometer of a power line using PLC, and that operation on 2200 meters could cause interference, but added, "We encourage you to reapply and select only the '472-479 kHz' range, as it is much more free of interference from utilities."

Awash with Signals

Raab said a few operators reported making contacts on 630 meters the first night, although noise levels were high, and a geomagnetic storm was in progress. Saturday night, October 14, "was a bust," he said. The next evening, however, things broke open. "The band was awash with CW and digital signals," Raab said. "Operating modes included CW, JT9, SSB, and WSPR. Many operators were new to the band and not previously experimental licensees."

Various Reverse Beacon Network (RBN) nodes heard W7IUV, AH6EZ/W7, N6TV, N6LF, KB5NJD, AA4VV, WZ7I, WA1ZMS, K4EJQ, K4LY VE6WZ, VE6JY, VE7AB, VE9WZ, and VE7CNF, among others. W0YSE/7 reported making JT9 QSOs with W7IUV, VE7CNF, W7RNB, and VE7VV, and CW QSOs with W7IUV, K7SF, N6LF, and VE7CNF.

WA1ZMS: SSB QSOs with NO3M and KL4Y. NO3M: CW: K4LY, K4EJQ, N4PY, WA1ZMS, K9MRI, KB5NJD, W0RW, WA9ETW (cross band 1805) JT9: K4LY, K2BLA FT8: K3RWR, VE3CIQ SSB: K4LY, WA1ZMS.

"Many were on 630 meters last night [October 15], and one highlight for me was an SSB QSO with K4LY," Brian Justin, WA1ZMS, told ARRL. He and K4LY both worked NO3M, who also reported working K4EJQ, N4PY, K9MRI, KB5NJD, W0RW, and WA9ETW on CW. He made some JT9 and FT8 contacts too.

On October 17, W7IUV and VK4YB completed a JT9 contact, possibly the first US-to-DX contact between radio amateurs on 630 meters.

Getting on 2200 meters can be a bit more involved than getting on 630 meters. This LF antenna tuning unit was constructed by John Andrews, W1TAG/WD2XES.

No Interference Reported

Andrews said he was an early applicant for a Part 5 license in 2003, after the FCC turned away from its own proposal to allocate a band on 2200 meters. He's renewed his WD2XES license every 2 years since, operating "extensively" on 2200 meters between 2004 and 2016 and estimates that he has racked up 11,000 hours of transmit time. His license specified 1 W ERP, and his antenna was a 500-foot perimeter loop in the vertical plane, which he called "horribly inefficient." Andrews told ARRL that it took about 500 W of transmitter output to generate the 1 W ERP, based on actual field-strength measurements.

Andrews said that national grid distribution lines feed and traverse his town of Holden, Massachusetts. "I was never notified of any interference problem other than a neighbor trying to run outdoor security cameras with CAT 3

network cable," he said. "While 2200 meters is a pretty tortured part of the radio spectrum for receiving over-the-air signals, there was nothing audible that suggested PLC use."

He said he responded to the UTC indicating that he would comply with their denial, and he included information about his many hours of WD2XES operation. He plans to apply for permission to operate on 630 meters from Massachusetts, and his notification for permission to operate on both bands at his summer home in Maine has not been denied.

FCC Rules

Section 97.313(g)(2) of the Amateur Service rules requires that, prior to starting operation on either band, radio amateurs must **notify** UTC that they intend to operate by submitting their call signs, intended band(s) of operation, and the coordinates of their antenna's fixed location. The new rules do not permit any mobile operation.

"Amateur stations will be permitted to commence operations after a 30-day period, unless UTC notifies the station that its fixed location is located within 1 kilometer [approximately 0.62 mile] of power line carrier (PLC) systems operating on the same or overlapping frequencies," the FCC said in announcing approval of the notification system on September 15.

More Information

Laurence Howell, **KL7L**, in Wasilla, Alaska, who holds FCC Part 5 Experimental license WE2XPQ, has posted **a video** that walks through his 630-meter station. It discusses the various components he uses to get a decent signal on the new band and includes some pointers on equipment that newcomers might use, and the conditions that could influence operating on this band.

Online discussions prepared by Andrews and Jay Rusgrove, W1VD, offer test data and suggestions on repurposing AF amplifiers (in this case, Hafler stereo amps) for use on both **2200 meters** and **630 meters**. The principles can be applied to other AF amplifiers, and the conversion involves removing audio transformers and low-pass filters.

Used with permission The ARRL Letter for October 19, 2017
^^

Comments From the ARRL Maryland – DC Section Manager

Greetings,

I work with the survivors of disaster and have been deployed to many areas over last couple of months - working 12 to 16 hour days.

I would like to thank ASMs Jim Montgomery, WB3KAS, Wanda Montgomery, KA3AHI, and Al Brown, KZ3AB, as well as the Atlantic Division Director Tom, W3TOM, for picking up my SM duties while I am unavailable.

I especially want to thank Jim, WB3KAS, and his XYL Wanda, KA3AHI, for all their splendid work on the October 7th Section Emergency Test. Photos may be viewed at: <https://flic.kr/s/aHsm5ki3rz>

Our First Responders and Disaster Relief workers are doing monumental work to help so very, very many – as they are away from their families, friends and home.

Please make your contributions count – support disaster relief in impacted communities.

I hope to be back in the Section Manager's saddle very soon.

73 best regards,
Marty KB3MXM
Used with permission 7MDC Section News, October 12, 2017
^^

UPCOMING HAMFESTS

This is a list of hamfests in the Maryland-DC Section area.

I am including hamfests in nearby Pennsylvania, northern Virginia, West Virginia and Delaware as a courtesy to our neighboring Section Managers.

I, as your MDC Section Manager, Marty Pittinger, KB3MXM, and/or a designated ARRL representative(s) plan to attend all hamfests in the ARRL Maryland-DC Section.

We hope to see you all there.

Second Annual American Legion PGCERA SantaFest
Date: Saturday, December 9, 2017
Location: American Legion Youth Camp, 9201 Surratts Road, Cheltenham, MD 20623
Website: pgares.org/santafest/index.html
Sponsor: American Legion and Prince Georges County, Emergency Repeater Association
Talk-In: 145.230 (CTCSS: 110.9 Hz)
Public Contact: Charles Hallock, AA3WS, 16203 Manning Road, West Accokeek, MD 20607
Phone: 301-535-1666
E-mail: selbynet@hotmail.com

Used with permission MDC Section News, October 12, 2017
^^

From the Officers and Directors
of the Anne Arundel Radio Club

REPEATER FREQUENCIES

Davidsonville	Millersville	Glen Burnie	Annapolis
147.105+		147.075+	
223.880-	224.560-		
444.400+			442.300+

PL: 107.2 for all repeaters
The 147.105 and 147.075 repeaters are frequently linked. Please leave an extra second after the courtesy beep to allow the link to reset as well.

Visitors are welcome *to all meetings and nets.*
Meetings are held in the Clubhouse at the
Davidsonville Family Recreation Center,
Queen Anne Bridge and Wayson Roads off
MD Route 214 near Davidsonville, MD.
For en-route directions,make initial contact on the 147.105 repeater.

Wednesday Night Talk Net -- All are welcome

8PM, On the AARC Repeater 147.105

Other Amateur Radio nets

Name	Frequency	Day	Time
Morning Commuter Net	147.105+Mhz PL 107.2	Weekdays	0600
AA County ARES Net	146.805- Mhz PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670- Mhz	Daily	1830
Maryland Emergency Phone Net	3.820Mhz	Daily	1800
MD-DC-DE Traffic Net	3.557Mhz	Daily	1900 and 2200
Maryland Mobileers Net	146.805 PL107.2	Monday	1930
Maryland Slow Net	3.563 MHz	Daily	1930
REACT Net	442.300+Mhz PL107.2	1st Sunday	1930