

# Ham Chatter



Volume 55 Issue 5

An Official BARC, W4AMC, Publication

June 2021

Editor, Mark Raysin, KG4GVJ

Email: [hamchatter@w4amc.com](mailto:hamchatter@w4amc.com)

## BARC STARTING IN-PERSON General Meetings

### Hawaiian Special Event

A June special event will commemorate Hawaii's King Kamehameha and the history of the 50th state. K6K will be on the air from 1600 UTC on June 11 until 0800 UTC the next day. Those working K6K are eligible to receive a full-color K6K: King Kamehameha Celebration certificate.



### Field Day 2021 to be at the Oakwood School.

Field day is Friday June 18 to Sunday June 20, 2021. The Ladies have Planning Authority this year. The plan is a couple of operating stations in the school room and one out in the trailer for those not comfortable inside. It's believed that most of us will have our SHOT's by then, providing a safer environment for us all.

### Camp Lejeune Classes update

Another round of classes and testing has occurred with 18 out of 20 passing their test.

Good job!



### BARC's Next Meeting On ZOOM and in Person!

June 8, 2021, 7 PM

The meeting will be on ZOOM. See front page article in the April, 2020 *Ham Chatter* for details on setting up and signing in. Contact Peter Van Houten, **N4PVH**, for details if you are having trouble setting up.

**In Person** will be at the Oakwood School, in the Music Room. 4000 MacGregor Rd, Greenville, NC.

Subject will be Field day.

*All members, families and guests are invited to attend.*

**Board Meeting - June 29, 2021**  
The meeting will be on ZOOM at 7:00 PM. All members invited.

**BARC Emergency Communication Workgroup (BECW)**  
Zoom 7pm, June 15.

**Used Items now available in the Ham Ads**

## VE News

### NEXT VE Testing session

Will be XXXXXXXX, 2021. Space is limited and reservations is required. Go to the ARRL website and lookup for testing in your neighborhood and lookup Gerald KN4CKL.

You can practice at "Ham Test Online"

The contents of this Newsletter doesn't necessarily express the opinion or views of Brightleaf Amateur Radio Club or it's members. No offence is intended.



## Happy Birthday

Brightleaf Amateur Radio Club members birthdays in May:

06-11 WA4SLC Bill Dawson  
 06-12 n/c Lindalee Hanrahan  
 06-20 KN4VJR David Meeks  
 06-27 W4JNC Richard Campbell  
 Please let me know of any additions or corrections. If yours is missing, I don't have it! Please, please email [hamchatter@w4amc.com](mailto:hamchatter@w4amc.com)

## Presentation Ideas Needed

Who do you want to see or hear giving a Presentation at the Meetings? Let Byron know. Email him at: [bhighland@nc.rr.com](mailto:bhighland@nc.rr.com)

**Missing out on seeing folks in person at the meetings? We're Starting up again!**

Join us on ZOOM or in person. We miss seeing you too.

### Login for BARC meeting on Zoom

Peter Van Houten, N4PVH, will be running Zoom for the meeting. To join, use his Zoom number, 699-723-8982. The password will be sent via email. If you have problems, call or email Peter or another club member.

## Well Wishes

Thoughts and Prayers go out to the following:

*Please inform the Vice President and Ham Chatter of any changes or needs.*



## Next VE Session

**Regular SESSIONS CANCELLED DUE TO COVID-19?**

Study material at: <http://www.arrl.org/courses-training>. Please bring to the Test the following, required:

- Photo ID (drivers license)
- Original Amateur Radio License
- Copy of Amateur Radio License
- Original CSCE's
- Copy of CSCE
- Test fee is \$15.00 .
- ♦ • Proof of Tech Plus if before 3/21/87 and doing paper upgrade to
- ♦ FRN number is required. \*
- ♦ A valid Email address will need to be provided.

Go to <http://www.w4amc.com/barcinfo.html#VE> for more information.

## In This Issue

ARRL News	12
Next Meetings	1
Presidents Corner - N4PVH	3
Next VE Session - <b>SEE ABOVE</b>	3
Yabba-Dabba-Doo from Mark	7
Other Club's News	7
ARES/AUXCOMM News	8
AUXCOMM Training	9
HAM ADS	29
NET's	12
Hurricane Nets to know	27
AUXCOMM Matters	24
Board, BARC EmComm Minutes	4
BARC Calendar of Events	30

PUBLISHED MONTHLY BY THE BRIGHTLEAF ARC, P. O. BOX 8387, GREENVILLE, NC 27835 \* NON-COPY - RIGHT MATERIAL CONTAINED HEREIN MAY BE REPRINTED WITHOUT PRIOR PERMISSION WITH CREDIT GIVEN TO THIS PUBLICATION \* PRESIDENT - PETER VAN HOUTEN, N4PVH \* 1ST VICE PRESIDENT - DAVE LANGLEY, W4YDY \* 2ND VICE PRESIDENT - BYRON HIGHLAND, K4BMH \* SECRETARY - BETH GONZALEZ, KN4FZB, \* TREASURER - JIM LOWE, AC4JL, \* BOARD MEMBER - DAVE WOOD, W4EJ \* VE LIAISON - GARY CORIELL, KK4GC \* PUBLIC RELATIONS/PUBLIC SERVICE COORDINATOR - VACANT \* W4AMC/W1VOA/W4UHS TRUSTEE, BILL DAWSON, WA4SLC \* HAM CHATTER EDITOR - MARK RAYSIN, KG4GVJ \* WEBMASTER - PETER VAN HOUTEN, N4PVH \* EMAIL ADDRESSES ON BARC WEB SITE \* OPINIONS BY WRITERS MAY NOT NECESSARILY BE THAT OF THE BRIGHTLEAF ARC \* CONTRIBUTIONS ARE TAX DEDUCTIBLE. .

## President's Corner, Peter Van Houten, N4PVH



.Dear Members:

Hard to believe where the time goes. I remember when the pandemic started and we went into lock down mode, when I thought to myself: "Wow, now I have the time to learn a programming language, write some programs and organize my life." None of that happened and now we are coming out of lock down 15 month later! Where did the time go? To that end, we are approaching Field Day quickly at the end of the month (June 26-27) and need to think about how that will take place. Discussions with the board produced the following ideas:

1. We will have FD at Oakwood School like we did 2 years ago. (4000 MACGREGOR DOWNS ROAD, Greenville, NC). We will get together at 8am Saturday morning to start the set up.

2. Masks are optional but encouraged as the mask mandate has been changed by the Governor. At one of our recent meeting, a random poll revealed about a 63% vaccination rate for members of the club making us close to "heard immunity" of 70%. We can be socially distanced by putting the stations at least 6' apart. We will limit the number of people in the room to 10 (2 at each station and 4 others). We respectfully request that persons gathering and one on one rag chewing (with masks on) be done in the hallway or outside. This allows the operators to be able to concen-

trate on their contacts rather than the noise in the room. We will have a GOTA/Isolated Station in the ARES trailer outside for those that do not want to enter the room with others running the other stations. It is possible to be socially distanced when setting up the antennas and running the stations.

3. Coming to Field Day exposes you to others and puts you at a small risk of contracting the virus. This has been made small by the use of masks, socially distancing, and being vaccinated. If you have an immune problem or other serious health issue, then stay home and work Field Day as we did last year as those "Home" classes are still valid this year (check the ARRL rules at <http://www.arrl.org/field-day-rules>).

4. We are going to have fun! We are going to get together (safely) and have a grand time and have dubbed this FD as a "**Sadie Hawkins FD**" where the YL's of the club are the bosses and tell the men what to do! By this action, I hope to encourage the YL's of the world to join in the fun of Amateur Radio.

---

# President's Corner

Continued

5. The next club meeting on June 8th at 7pm will be at Oakwood School to talk about Field Day but will also be on Zoom simultaneously (I hope). Judy Taber W3JUU is our illustrious FD Chairperson so please give her all you cooperation and support.  
73, Peter N4PVH

## BARC EmComm Team Meeting May 18, 2021

In Attendance: Beth González KN4FZB, Bob Hanrahan AF4QY, Mark Raysin KG4GVJ, Peter Van Houten N4PVH.

Business: Peter tested generators. Yamaha starts and runs, but still needs to be tested for RFI. Old Ironsides did not start, but later Peter got it to start.

Peter also replaced flat tire on ARES trailer.

Bob was tasked with developing a comprehensive repeater list for the area to be included in the jump kits.

The group will continue to work on familiarization with WinLink, Varia and other systems that may be appropriate.

Group will develop a list of emergency and radio "tips" to have on the blog and to be announced on the nets.

Group will generate a list of jump kit items.

Consider inviting Mike Langley as July presenter to present what to pack for a "Go Bag". - Item for Byron to decide. We all need to make a "Go Bag" and have it ready.

Familiarized group with BARC page on Wordpress P2 site that is a password secured web page for members to put documents and communicate.

73 Beth, KN4FZB

## Starting an Antenna Design and Testing Course



Brainstorming with David Sourdis (HK1A) while on my drive to see my parents in Maryland produced the following idea: Why not offer a short course on antenna modeling with **4Nec2** (<https://www.filecroco.com/download-4nec2/>) free antenna modeling software (PC only) over a few weeks via zoom and then meet at a certain location to actually build these antennas and test them with lab grade equipment to see how well we modeled the antenna with the software and how well the antennas performed. If you are interested in this activity, please send your name and email to [info@w4amc.com](mailto:info@w4amc.com) so that we can contact you.

If you want a preview of the software, David did a BARC meeting presentation on the software last year and you can see the video here:

<https://vimeo.com/353973679>

There is a blog page about this at our BARC web page:

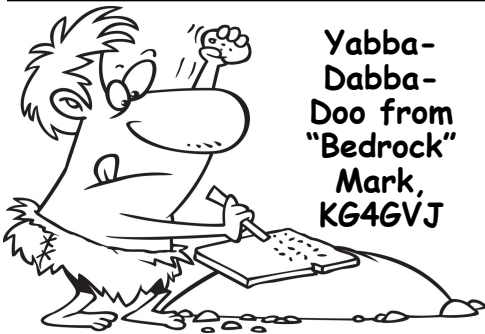
<https://w4amc.com/2021/05/22/starting-an-antenna-design-and-testing-course/>

and it has a short survey to gauge the interest in having a class like this. Please answer the first question and for those that want to participate, leave your name and email address and we will get back to you. The class would be on Zoom in the evening on a week day and the antenna testing would be on one week end at the end of the class, probably in the fall. This would not start until after Field Day. Doing it on Zoom will

allow us to see directly how the instructor uses the program. We would then build these antennas on our own and then get together to go out into the field one week end to test them. This would allow us to improve our antennas and test new designs. Hopefully we would all gain significant insight into how antenna design can make a difference in performance. All this will take a few months to accomplish but should be a lot of fun! Let us know if you are interested!

73 Peter N4PVH, David HK1A.





## Other Club's Zoom Meetings and News

### Forsyth Amateur Radio Club (FARC) W4NC

Like us, FARC is also having to deal with the Virus these days. They meet on the 2nd Monday of the month on ZOOM at 7:30 PM. The Log on is 294 418 122 with the Password being the club call in lower case.

**ARES/Auxcomm** training is on the 3rd Thursdays at 8:30 PM at 897-9792-5844.

**Tech-Talk** is on Wednesdays at 7:30 PM (informal) 549 621 524.

Password is their Call sign.

From FARC website.



Hi again folks. Say "HI" to June 2021. Field Day and the FIRST in-person meeting will be held this year. I hope you all have or will have the vaccine and we all can meet together with no problems. Oakwood School is allowing us to use their Music room to meet on Tuesday June 8. The main topic will be Field Day. There may be some discussion on another location offered for the future meetings. Hopefully there will be no problems running the ZOOM part of the meeting for those who don't come to it.

In the mean time, I'm still trying to sell some old but usable radio's. Which means going thru boxes for items I'm sure I had when the radios were bought (Used). Nothing like having a spare bed covered with Radio's and parts or other items for them stacked together with the proper radio. I'm also going to need to Photograph and box them for shipping so I can Ebay them if your not interested in them.

### Help the Editor.

Do you have something to say or post? Want to right a article? Any ideas? Comments and notice's of help needed (Personal or club needs or activities. Can be BARC related or other club's). Have interesting photo's or articles? Done something related to radio? Please let us know and we may add them to the Ham Chatter and web page Blog.

Send it along to the Editor at Ham Chatter. We will see if we can fit it in.

By the way, My sister and I joke about me being a "Ape in the Zoo".

## ARES/AUXCOMM News



**The five USB channelized 60-meter frequencies are available for interoperability (communication between services). By convention, Channel 1 is designated the calling channel. This convention is established to train the amateur radio community to reach out on Channel 1 in times of national emergency, for information from the federal government. The amateur radio community uses 60 meters on a secondary basis with federal agencies. This and similar 60-meter interoperability exercises are**

**conducted during the first full week of each month. More information [here](#). - ARRL News**

Check out the [New England ARES Academy](#) channel on YouTube for a series of excellent training videos.

*Comm Academy 2021 Live Event Held April 10-11 A Success -- Comm Academy 2021 has been archived and is available as a [YouTube playlist](#) on the [Comm Academy YouTube Channel](#). Subscribe to stay up to date on extra content, and future videos. In addition, all session slides and supporting material will be available shortly on the academy's [Archives Page](#). You can browse the archives of previous Comm Academy events there also. Continue the conversation year*

round in the [Cascadia Radio Shack](#). Organizers thanked attendees: "Thank you to all of our attendees! We have had an amazing turnout and we couldn't be happier with how the event went."

[St. Vincent Radio Amateurs on Alert During Volcano Emergency](#). - ARRL News

## **BARC Needs YOU!**

**BARC** needs to know where You think we should go as a Club. Service the Community, Contesting, Teaching, Elmering, What? Give us your thoughts. Contact Peter or the Ham Chatter.

ment is desirable, but is not a requirement for membership.

How to Get Involved in ARES: Fill out the [ARES Registration form](#) and submit it to your local Emergency Coordinator.

## ARES Resources

- [Download the ARES Manual \[PDF\]](#)
- [ARES Field Resources Manual \[PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Fillable PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Word\]](#)
- [ARES Plan](#)
- [ARES Group Registration](#)
- [Emergency Communications Training](#)

The Amateur Radio Emergen-

cy Service<sup>®</sup> (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an amateur radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equip-

## AUXCOMM Training

### REQUIRED TRAINING

The State of North Carolina has mandated that all personnel performing any functions within any Emergency Operations Center, forward Command Post, or any Incident where Incident Command System (ICS) is used have completed basic ICS training. This training is available via the FEMA Learning Institute's on-line training system at <https://training.fema.gov/nims/>. Training required is ICS-100, ICS-200, ICS-700 and ICS-800.

It is recommended taking the courses in the following order: ICS-700, ICS-800, ICS-100 and ICS-200. You will be asked to register for the courses and a certificate of training will be issued upon successful completion. Team members are requested to forward an electronic copy of their certificate's to the AuxComm - ARES EC at the email address below. Completion of these courses will permit AuxComm - ARES team members to perform Radio Operator at duties an EOC or other ICS Command location. Each course is self-paced and should take approximately 3 hours to complete on-line.

## National Hurricane Conference Set for June 14 - 17

The [National Hurricane Conference](#) will take place June 14 - 17 in New Orleans, Louisiana. The primary goal of the National Hurricane Conference is to improve hurricane preparedness, response, recovery, and mitigation in the US, the Caribbean Basin, and the Pacific. The conference serves as a national forum for federal, state, and local officials to exchange ideas and recommend new policies to improve emergency management.

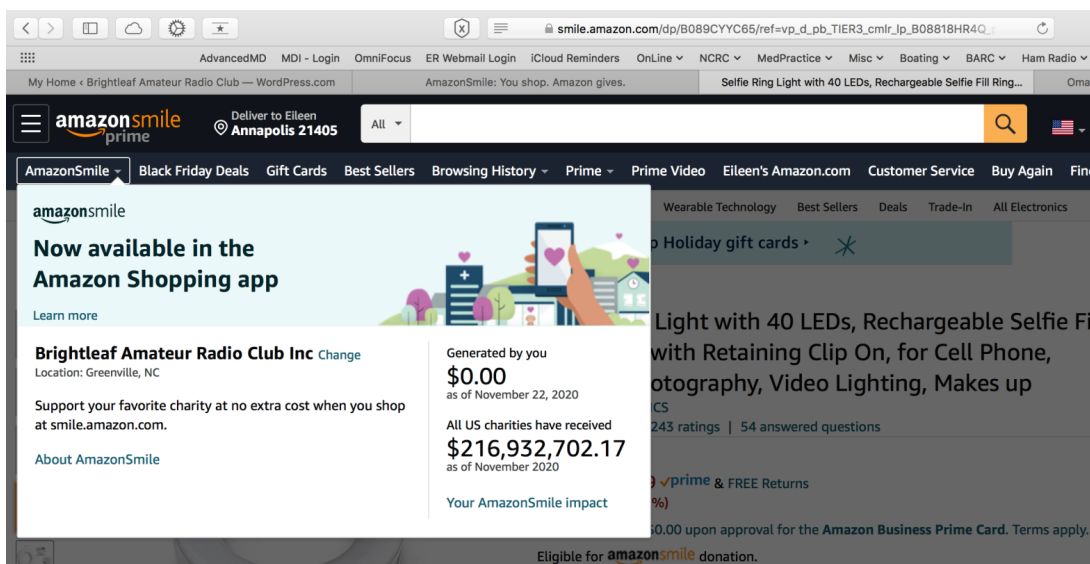
FEMA/Emergency Management Institute (EMI) training courses are offered, as well as workshops and training sessions on a wide range of topics for hurricane responders. General session speakers will include many of the nation's top experts in

hurricane-related issues. Radio amateurs involved in hurricane response are invited. [Register](#) online.

## Amateur Radio Session Scheduled for Tuesday Afternoon

The traditional Amateur Radio Workshop is scheduled for Tuesday, June 16, 1:30 - 5 PM CDT and will be held virtually. Rob Macedo, KD1CY, Director of Operations, VoIP Hurricane Net, will moderate. The workshop will include Julio Ripoll, WD4R, Assistant Coordinator of the National Hurricane Center's WX4NHC.

Macedo has served as an Emergency Coordinator and District Emergency Coordinator, and is currently Section Emergency Coordinator for the ARRL Eastern Massachusetts Section. He will focus on the National



## Amazonsmile

Shop Amazon? Go to Amazonsmile and select "Brightleaf Amateur Radio Club" as your donation. Keep using this page and a percentage of your purchases will go toward your club.

Weather Service and the SKYWARN program and the relationship between Eastern Massachusetts ARES and the Massachusetts EMA and FEMA. Macedo has served as SKYWARN Coordinator for NWS Boston/Norton since 1996.

SB QST ARL ARLB014

### **ARLB014 FCC Auto-Registration Feature for Exam Applicants to be Discontinued**

Auto-registration in the FCC Commission Registration System (CORES) amateur radio exam for candidates using a Social Security number will be discontinued on May 20, 2021. Applicants must use an FCC Registration Number (FRN) for all license transactions with the FCC.

Examinees must register in CORES and receive an FRN before exam day.

Starting on May 20, electronic batch filed applications that do not include a candidate's FRN will be rejected. The Social Security/Licensee ID Field will be disabled.

The CORES website can be accessed at:

<https://apps.fcc.gov/cores/userLogin.do> .

---

## **ARRL Learning Network Webinars**

Visit the [ARRL Learning Network](#) (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions.

These Learning Network presentations are sponsored by PreppComm.

**Ask the Lab: How ARRL's Technical Information Service Can Help You -- ARRL Laboratory Manager Ed Hare, W1RFI / Tuesday, June 8, at 1 PM EDT (1700 UTC)**

Learn about the ARRL Technical Information

Service (TIS) and the expert ARRL Laboratory staff who answer thousands of questions each year from members. Get tips about projects, suggestions to address various station installations, and help for some of your most pressing ham radio questions. You'll discover how to search ARRL's extensive Periodicals Archive, find helpful articles, read test reports, access technical forums, and find answers to technical questions beyond the Lab.

**Improving Your Club's 2021 Field Day Score -- Paul Bourque, N1SFE, ARRL Contest Program Manager / Thursday, June 10, 8 PM EDT (0000 UTC on Friday, June 11).**

Learn how your club or group can take advantage of the 2021 ARRL Field Day rules waivers while operating as Class D or E from home. We'll discuss how individuals or groups can boost their scores by earning bonus points, review how to use the Field Day web applet to submit your score, and go over how to attribute your score to your club's aggregate score. This presentation highlights all you need to know to operate as a group for ARRL Field Day 2021.

**Introduction to Remote HF Operation / Davide Lanfranconi, W6DGE, and Kevin Shin-Wheeler, N7KSW, Cal Poly Amateur Radio Club / Tuesday, June 22, 1 PM EDT (1700 UTC).**

COVID-19 has triggered a renewed interest in remote operation. Lanfranconi and Shin-Wheeler will discuss the idea, process, and challenges encountered while getting their club's remote HF station on the air, as well as some methods and resources available for those with a similar interest. A Q&A session and live demo are included.

ARRL members may register for upcoming presentations and view previously recorded [Learning Network](#) webinars. ARRL-affiliated radio clubs may also use the recordings as presentations for club meetings, mentoring new and current hams, and discussing amateur radio topics.

The ARRL Learning Network schedule is subject to change.

## MARS Announces Schedule of Dates for 60-Meter Interoperability

ZCZC AX02  
 QST de W1AW  
 Special Bulletin 2 ARLX002  
 From ARRL Headquarters  
 Newington CT February 3, 2021  
 To all radio amateurs

SB SPCL ARL ARLX002  
 ARLX002 MARS Announces Schedule of Dates for 60-Meter Interoperability

The Military Auxiliary Radio System (MARS) has announced dates in 2021 during which MARS members will operate on 60 meters for interoperability with the amateur radio community. Some dates coincide with quarterly Department of Defense Communications Exercises (COMEX).

All exercises will begin on channel 1 as the initial calling channel and move to other 60-meter working channels as may be appropriate.

"In addition to voice calls, I want to introduce passing ICS 213 messages in both voice and digital modes to enhance the overall interop experience," said US Army MARS Chief Paul English, WD8DBY.

English continues, "Our exercises will yield the frequencies to other scheduled exercises or mission activations, which may be called by other agencies for interop support (e.g., hurricane, wildfire, etc.). We regularly instruct MARS members to work cooperatively with the amateur radio community during the use of the 60-meter interop channels. We will continue to track our 60-meter usage and activities."

English said he plans to provide a quarterly usage report of 60-meter interoperability activities.

The interoperability schedule is as follows:

June 1 - 6  
 Exercise: Interop Outreach  
 Location CONUS →

## ARRL on the Purpose of Amateur Radio



For over 100 years amateur radio and ARRL — the National Association for Amateur Radio® — have stood for the development of the science and art of communications, public service, and the enhancement of international goodwill. Amateur Radio's long history and service to the public has solidified the well-earned reputation that "Amateur Radio saves lives."

Amateur Radio Operators, due to their history of public service, their training, and the requirement that they be licensed by the FCC have earned their status as a component of critical communications infrastructure and as a reliable resource "when all else fails."

Amateur Radio is about development of communications and responsible public service. Its misuse is inconsistent with its history of service and its statutory charter. ARRL does not support its misuse for purposes inconsistent with these values and purposes.

July 5 - 10  
 Exercise: Interop Outreach  
 Location CONUS

July 20 - 22  
 Exercise: DOD COMEX 21-3  
 Location: CONUS

August 2 - 8  
 Exercise: Interop Outreach  
 Location CONUS

September 1 - 6  
 Exercise: Interop Outreach  
 Location CONUS

October 1 - 31  
 Exercise: DOD COMEX 21-4  
 Location: CONUS

NNNN  
 /EX

## FCC Not Yet Collecting \$35 Application Fee

The majority of the FCC's revised Part 97 rules (adopted in December 2020) establishing new application fees become effective on April 19, but the new amateur radio application fees will *not* become effective on April 19. The FCC announced on March 19 that the amateur radio application fees, including those associated with Form 605 filings, would not become effective until the "requisite notice has been provided to Congress, the FCC's information technology systems and internal procedures have been updated, and the Commission publishes notice in the *Federal Register* announcing the effective date of such rules."

The \$35 fee, when it becomes effective, would apply to new, modification (upgrade and sequential call sign change), renewal, and vanity call sign applications, as well as applications for a special temporary authority (STA) or a rule waiver. All fees will be per application. Administrative updates, such as a change of mailing, email address, or name, are exempt.

It is expected that such fees will not become effective before summer 2021. The FCC has stated that amateurs will have advance warning of the actual effective date, because it will publish such date in the *Federal Register*.

ARRL Volunteer Examiner Coordinator (VEC) Manager Maria Somma, AB1FM, said VECs and Volunteer Examiner (VE) teams will not have to collect the \$35 fee at exam sessions. Once the FCC application fee takes effect, new and upgrade applicants will pay the \$15 exam session fee to the VE team as usual, and pay the \$35 application fee directly to the FCC via the [Fee Filer System](#) or [License Manager System](#). Somma said this information was provided in a [VE Newsletter](#) distributed this past week. "Further news and instructions will follow when we have them," she said.

From ARRL Letter 3/21/21

## ARRL NEWS

### ARRL Learning Network Webinars

Visit the [ARRL Learning Network](#) (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions. The schedule is subject to change.

### Field Day 2021 Rules

ARRL announced that the special rules for Field Day 2020 will continue this year. There will be power limits on Class D (Home Stations) and Class E (Home Stations on Emergency Power). Class D Stations may work all other Field Day Station for points but both Class D and E stations are limited to 150 watts PEP output. Information about the rules for Field Day 2021 can be found at <http://www.arrl.org/news/arrl-to-extend-field-day-rule-waivers-from-2020-add-class-d-and-e-power-limit>.

### Great Lakes Area Winlink Net Started

A new Great Lakes Winlink Net has been started to promote the use of Winlink and training on the various facets of the hybrid amateur radio data/internet system. The net is open primarily to those states that border any of the Great Lakes: Minnesota, Wisconsin, Illinois, Indiana, Michigan, Ohio, Pennsylvania, and New York, and the Canadian province of Ontario. However, radio amateurs wishing to

check in from other states or provinces anywhere are welcomed to participate. This net is modeled on the [Wisconsin ARES Winlink net](#).

The net check-in process is as follows: Send either a basic, plain text message, or use any of the forms templates on the Winlink Express platform available that will allow you to include the following line of text in the body of the message or in an appropriate part on the form you choose to send: FIRST NAME, CALLSIGN, CITY, COUNTY, STATE, COUNTRY. For example: RYAN, KB8RCR, REMUS, MECOSTA, MICHIGAN, USA.

The net started on Wednesday, March 10, and each week on Wednesdays, amateurs may send their messages or forms any time during the day using Winlink in any mode available, RF or via Telnet. Send your message to KB8RCR as the recipient on Winlink. - *Ryan Lughermo, KB8RCR, ARRL Assistant Section Emergency Coordinator for Data Management/Special Projects, Michigan Section; and Official Relay Station*  
From ARES March 2021 Newsletter  
(Editors Note: Great way to learn and practice)

## NETS

### VHF/UHF

- ◆BARC Net, Mondays, 2000 on 147.09 MHz, W4GDF Repeater.
- ◆Down East Hospital Net, 2nd Tuesday of each month at noon  
Greenville 444.725 MHz, 91.5 tone N4HAJ  
Fountain 444.425 MHz, 88.5 Tone N4HAJ
- ◆Newport SkyWarn Tues. nights 2100E  
Grifton-146.685-88.5 tone
- ◆Newport-145.450..... IRLP 8561 links to Columbia
- ◆Jacksonville-147.000- 88.5 tone
- ◆Oriental-147.210-151.4 tone
- ◆444 Newport-444.825- 88.5 tone
- ◆Swansboro-146.760- 88.5 tone
- ◆Grantsboro-145.230 - 85.4 tone.
- ◆Kinston Amateur Radio Society Net, 1,3,4 Tuesdays, 2000 hrs. on 145.47 MHz., W4OIX repeater in Kinston.
- ◆Eastern North Carolina Traffic Net, Every night, 2030 on 146.685 MHz.
- ◆Wilson Amateur Radio Club Net, Thursdays @ 2000 on 146.76 MHz.
- ◆ Piedmont Coastal Traffic Net, Nightly 2030 on 146.88 MHz.
- ◆Carteret County ARS (CCARS) Emergency Net, Tuesdays, 1930 on the Newport 145.45 (-) MHz.
- ◆Coastal Emergency Linking Net, Wednesday, 2100 ET on Ahoskie 145.13, Buxton 145.15, Columbia 146.835 & 443.30, Elizabeth City 146.655, Greenville, 145.35, Hertford 147.33, Williamston 145.41 & 444.25
- ◆ 220 Net, Wednesday 2000hrs, 224.840 MHz -1.6, PL 91.5

### HF

- Tar Heel Emergency Communications Net on 3923 kHz Nightly 1930.
- NTS CW Nets
- ◆3.571 2000 hours, slow speed (5-8 wpm) Carolinas Slow Net
- ◆3.573 1900 hours, high speed (20wpm)
- ◆3.573 2200 hours, slow speed (12-14 wpm), South Carolina/North Carolina
- National Traffic System
- Eastern North Carolina Traffic Net (ENCTN) 146.685 (146.085 in) MHz (PL 88.5) 2030E

## BARC Email Addresses

- \*[Info@w4amc.com](mailto:Info@w4amc.com)  
to Peter Van Houten, N4PVH
- \*[Treasurer@w4amc.com](mailto:Treasurer@w4amc.com)  
to Jim Lowe, AC4JL
- \*[Hamchatter@w4amc.com](mailto:Hamchatter@w4amc.com)  
to Mark Raysin, KG4GVJ
- \*[QSL-VE@w4amc.com](mailto:QSL-VE@w4amc.com)  
to Richard Campbell, W4JNC
- \*[Webmaster@w4amc.com](mailto:Webmaster@w4amc.com)  
To Peter Van Houten, N4PVH



## ARRL Learning Network Webinars

Visit the [ARRL Learning Network](#) (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions.

### **Ask the Lab: How ARRL's Technical Information Service Can Help You -- ARRL Laboratory Manager Ed Hare, W1RFI / Tuesday, June 8, at 1 PM EDT (1700 UTC)**

Learn all about the ARRL Technical Information Service (TIS) and the expert ARRL Laboratory staff who answer thousands of questions each year from members. Get tips about projects, suggestions to address various station installations, and help for some of your most pressing ham radio questions. You'll discover how to search ARRL's extensive Periodicals Archive, find helpful articles, read test reports, access technical forums, and find answers to technical questions beyond the Lab.

These Learning Network presentations are sponsored by Icom.

ARRL members may register for upcoming presentations and view previously recorded [Learning Network](#) webinars. ARRL-affiliated radio clubs may also use the recordings as presentations for club meetings, mentoring new and current hams, and discussing amateur radio topics.

The ARRL Learning Network schedule is subject to change.

## Announcements

[ARRL Field Day](#) is June 26 - 27. [Field Day rule waivers that were in place in 2020](#) are in place for 2021, and Classes D and E have a limit of 150 W PEP output.

- A special event using the call sign W1B will celebrate the 100th anniversary of affiliation for the Providence Radio Association (W1OP) June 25 - 30.

The Amateur Radio Emergency Data Network (AREDN<sup>®</sup>) Development Team announces the [availability](#) of a new stable production release of their software, version 3.21.4.0. This version supports new devices from the MikroTik, TP-Link, GL.iNET, and Ubiquiti.

## Upcoming ARRL Section, State, and Division Conventions

Many conventions and hamfests have been canceled or postponed due to the coronavirus pandemic. Check the [calendar of canceled events](#) on the ARRL website.

June 5 -- [ARRL Northwestern Division Convention](#) (SEA-PAC; online)

August 13 - 15 -- [QSO Today Virtual Ham Expo \(online\)](#)

August 21 - 22 -- ARRL [Southeastern Division Convention](#) (Huntsville Hamfest), Huntsville, Alabama

Find conventions and hamfests [in your area](#).

---

### *Yakkey-Dee-Yak Strays*

On May 13, 2021, I got on 20 meters and called CQ on FT4. The first station to call me at 0148Z was K3FBI/5, call sign of the FBI Amateur Radio Association located in Quantico, VA. I didn't know it then but they were doing a special event so the station was located somewhere in 5 land. About two weeks later, I

received via email PDF, the *Police Week 2021 - Honoring our Fallen Heroes* certificate. I did not know they had a certificate for it so it was a surprise when it showed up in an email. Of the over 200 certificates I have received for my Amateur Radio activities, it has to be one of my favorites. Checked out their QRZ.COM info and went to a couple of interesting links. It would be well worth your time to check them out, especially the *FBI Wall of Honor*. <https://www.fbi.gov/history/wall-of-honor>

They enter the mode as MFSK on the certificate for all Multi Frequency Shift Keying digital formats as you can see on the attached certificate. - *Dave, W4YDY*

**Police Week 2021 - Honoring our Fallen Heroes**

CONFIRMING QSO WITH	DATE	UTC	Band	Mode	RST
W4YDY	20210513	0148	20M	MFSK	-01

**In Brief...**

The San Francisco Amateur Radio Club ([SFARC](#)) will activate a sailboat on San Francisco Bay as the inaugural event in **Boats on the Air (BOTA)**. The event is set for Saturday, June 5, 1 - 4 PM PDT. Inspired by the success of programs like SOTA, POTA, and IOTA, BOTA will feed into the passions of amateur radio and boating. The sailing vessel *Auriah* is a 37-foot-long Beneteau Oceanis with a home port of Sausalito, California. "The main rule of BOTA is that the boat must be under way during the activation. No anchoring, mooring, or tying to a dock is allowed," said Kent Carter, AJ6NI. "The plan is for us to be moving 100% under sail power during that time. In addition to being a fun activity, it is hoped that BOTA will further emergency preparedness and experimentation with amateur radio." Activation frequencies are 7.115 MHz (CW); 14.325 MHz (SSB); 18.100 MHz (FT8), and 146.52 MHz (FM simplex). For more information or to post your own activation, [contact](#) BOTA.



May 1st is Lei day in Hawaii

**Hurricane Season 2021 nets**

Hurricane Season 2021 nets to know include the Hurricane Watch Net ([HWN](#)) on 14.325 and 7.268 MHz, the Caribbean Emergency Weather Net ([CEWN](#)) on 3.815 and 7.188 MHz, the Marine Maritime Services Net ([MMSN](#)) on 14.300 MHz, the [Intercontinental Net](#) on 14.300 MHz, and the Salvation Army Team Emergency Radio Network ([SATERN](#)) on 14.260 MHz. -- Thanks to [The ARRL ARES Letter](#)



## Hams in New Zealand again have access to 60 meters

The New Zealand Association of Radio Transmitters (NZART) announced recently that negotiations with regulator RSM were successful in accommodating 60-meter operation for New Zealand radio amateurs. Following the end of the two-channel 60-meter "trial" in New Zealand during 2020, hams there will now have access to a WRC-15 Amateur Secondary Allocation of 5351.5 - 5366.5 kHz with a maximum allowable power of 15 W EIRP (about 9.14 W) by applying for a [sub-license](#). An [FAQ](#) on the new licensing system for 60 meters has been posted. Scan and [email](#) your completed form to NZART Headquarters. Once acknowledged by return email, applicants may begin operation. This trial will be for 12 months, to allow RSM to assess if any interference issues arise. If none do, then NZART will negotiate with RSM to have the 60-meter band added to the General User Radio License, eliminating any need for a sub-license in the future. -- *Thanks to Paul Gaskell, G4MWO, Editor, The 5 MHz Newsletter*



(An article found said "Our channel 5 frequency has been adopted internationally as the international call frequency of 60 meters. ", *Editor*)



## YOTA Announces New Three-Times-a-Year Contest

"Team YOTA" of Youngsters on the Air in IARU Region 1 has announced it will sponsor a new contest, the [YOTA Contest](#). Open to all radio amateurs, it takes place three times a year and runs for just 12 hours. YOTA said the aim is to boost on-the-air activity by younger radio amateurs and to support YOTA. The contest will take place on different 12-hour windows on three Saturdays.

The opening event will be on May 22, 0800 - 1959 UTC. The other two in 2021 will be July 17, 1000 - 2159 UTC, and December 30, 1200 - 2359 UTC.

YOTA has established eight different operating categories, which include sub-categories for operators age 25 and younger, but operators of all ages may participate. Covering 80, 40, 20, 15, and 10 meters, the allowable modes will be CW and SSB.

The contest exchange will be the age of the participating operator. Different ages serve as score multipliers during the contest. Stations may work the same station once per band mode.

Contacts between the station's own continent are worth 1 point, while working DX is worth 3 points. The most points will be achieved by working the youngest operators. "The younger the operator, the more points one will get for the QSO," YOTA said.

The IARU Region 1 Youth Working Group is working with Hungary's IARU member-society MRASZ, the Hungarian Amateur Radio Society. MRASZ is providing a contest log robot, among other things.

[Submit](#) Cabrillo logs only. Contest winners will be announced once logs received have been checked in the various categories. Winners will be awarded with a YOTA Contest plaque.

The contest committee consists of the IARU Region 1 Youth Working Group: Philipp, DK6SP, chair; Markus, DL8GM, vice chair, and members Csaba, HA6PX, and Tomi, HA8RT.

[Contact](#) the YOTA Contest Committee with any questions or further information.

**BARC Website Blog page Titles****See you at QSO Today Virtual Ham Expo!****Around the world in a Balloon.****Contest University Propagation Seminar 2021.****Winter Field day.****Podcast/Videos/webpages.****Let's look ahead.****John McCoy, K4KBB, SK 11/29/20.****10kHz signal on 40M.****Everyone Join Amazon Smile and support BARC.****The "Bubba" Potatoe gun.****Brightleaf Emergency Communications Workgroup (BECW)****A Nice Winter POTA Day****Podcast's****ARRL DX CX Contest And others**

Feel free to view, comment and add.

**\*\*Renew/Join Now\*\***  
**Help Support BARC,**  
**Renew Today.**

**Membership Dues**

Membership dues for BARC are due January 1 every year. Membership dues are as follows and are almost the same as 2020: • Regular Member \$20.00 • Family Member \$2.00 • Associate Member (Non-Licensed) \$5.00 • Life Members \$0.00 • New Hams: Free first year

We are requesting that you send the application form in, so that we can have your correct information on file. The form can be downloaded at: <https://www.qsl.net/w4amc/barc-application.html>.

Please give the application and dues to the Treasurer at the meeting or mail your dues, along with the member application form to: Brightleaf Amateur Radio Club, P.O. Box 8387, Greenville, NC 27835

Or go to <https://w4amc.com/membership/> to use PayPal at the page bottom.

If there are any questions concerning membership status or dues, please contact Jim Lowe, AC4JL, [Treasurer@w4amc.com](mailto:Treasurer@w4amc.com) or (252) 320-6545.

Thank you for your continued support and participation in BARC.

**Camp for Young Radio Amateurs in the Americas is a Go for this Summer**

The long-awaited inaugural Youth on the Air ([YOTA](#)) camp for young amateur radio operators in North, Central, and South America will go forward this July. The camp, set for July 11 - 16, will take place at the National Voice of America Museum of Broadcasting in West Chester Township, Ohio, north of Cincinnati. The camp had to be postponed in 2020 due to the coronavirus pandemic. The ARRL Foundation is a contributing donor for 2021 YOTA Camp.

"The camp will comply with COVID-19 restrictions and guidelines as set by the state of Ohio and the Centers for Disease Control, such as requiring the use of masks, distancing, and sanitizing stations," said Camp Director Neil Rapp, WB9VPG. "Attendees may be asked to take a COVID-19 test and/or self-quarantine prior to arrival, depending on the guidelines in place in July. The entire staff of the camp are either fully vaccinated or will finish the vaccine series by the end of April. Most volunteers have also indicated that they are fully vaccinated." Rapp said some activities may need to be modified to work with the COVID-19 precautions.

Rapp said that if the COVID-19 situation unexpectedly degrades in extreme fashion or the state declares that the camp is not safe to operate, the event will have to be postponed until 2022. "Due to the volatility of the public COVID-19 response, attendees are highly encouraged to avoid non-

refundable tickets for transportation to Cincinnati," he advised.

Twenty-eight campers from the US, Canada, Mexico, and Iceland have already signed up for the 30 available positions, but Youth on the Air will continue to accept [applications](#) through June 1.

It costs nothing to apply. The camp's fee of \$100 is not due until the applicant has been accepted. Should a potential camper not be able to afford the \$100 fee, he or she may apply for a scholarship. The Youth on the Air website has [camp details](#).

This would mark the first camp ever for young radio amateurs in International Amateur Radio Union ([IARU](#)) Region 2. For additional information, [contact Rapp](#). [Read an expanded version](#).

---

### **ARES® Briefs, Links**

In conjunction with the [National Hurricane Conference](#), the traditional Amateur Radio Workshop sessions will be held virtually on Tuesday, June 15, 10:30 AM-12:00 PM EDT and 1:30 PM-5:00 PM EDT. The sessions will be moderated by Rob Macedo, KD1CY, Director of Operations, VoIP Hurricane Net, with Julio Ripoll, WD4R, Assistant Coordinator of the National Hurricane Center's amateur radio station WX4NHC. Zoom meeting check-in information:

National Hurricane Conference  
Amateur Radio Workshop

Time: June 15, 2021, 10:00 AM Eastern Time (US and Canada)

Join Zoom Meeting  
<https://us02web.zoom.us/j/84497886921?pwd=ZVJKZkx4VDk1bGJzbWFjaEhweTY4QT09>

Meeting ID: 844 9788 6921

Passcode: 565708

One tap mobile

+13017158592,,84497886921 #,,, \*565708# US (Washington DC)

+13126266799,,84497886921 #,,, \*565708# US (Chicago)

Dial by your location  
+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 669 900 6833 US (San Jose)

Meeting ID: 844 9788 6921

Passcode: 565708

Find your local number: <https://us02web.zoom.us/j/84497886921?pwd=ZVJKZkx4VDk1bGJzbWFjaEhweTY4QT09>

---

ARRL Field Day is June 26-27.

[Field Day](#) combines public service, emergency preparedness, community outreach, and technical skills all in a single operating event. It's an excellent exercise and training event for your ARES group. Consider holding your event at your local EOC. Field Day's Class F allows for an amateur radio Field Day station at an established EOC activated by a club or non-club group. Class F operation must take place at an established EOC site. Stations may use the equipment and anten-

nas temporarily or permanently installed at the EOC for the event. [Check the Field Day rules](#) for 2021.

---

## Perspective: Keys to Success with Emergency Management and the EOC

The question comes up frequently: *how to get your radio operators in the door of the emergency management department and the EOC?* The answer lies in the big things, like understanding and embracing our true role - we are there to serve and support the professionals in the agency and EOC in the way *they* see fit, not the other way around. We are there to respond to *their* orders, even if sometimes we may be assigned non-amateur radio tasks. We are there to do all we can to help them with their profound and often complicated mission of public safety during an incident. We've all heard horror stories about amateur group leaders who didn't like the way the county emergency manager was using operators; they didn't like how the emergency manager ran the department and EOC, so they publicly complained to the county commissioners. That's a non-starter, of course. Or, when hams spontaneously show up at the door, flood the EOC, and tell the paid, professional trained staff how to do their jobs. This is also a nonstarter.

Success lies in the small things, too, which are really big things. The inspiration for this editorial comes from a local county group that I work with from time to time, on exercises, conferences, nets, and training, that truly understands how the relationship works and why they have garnered the respect and appreciation of the emergency manager and his department. Here are a few things they do:

1. **We did whatever they asked.** When they asked that we move our entire radio room, we did it within a week of being asked, with no questions asked. The emergency management director specifically pointed that out later on, as a key moment that made him conclude we were a group to involve.
2. **We bought and installed our own shelving in the room** -- a cost of a few hundred dollars, without asking them for money.
3. **We held license course after license course** until most of our members were Extra class, representing a highly knowledgeable group that were experts in radio communications.
4. **We gradually gained Incident Command System (ICS) and Homeland Security Exercise and Evaluation Program (HSEEP) expertise** by holding conferences and HSEEP exercises of professional-level quality -- with bound, published training materials, full after-action reports, and improvement plans; and we *tracked* the progress on the improvement plan action items.
5. **We recruited the emergency management staff to be the evaluators** for our exercises so they could see everything for themselves. We were able to get them to observe and review our exercises and suggest improvements: everything they asked to be changed we changed, improving what we did going forward.
6. **We looked into outside systems** that would improve our communications options and capability. For example, we were able to get the SHARED RESOURCES (SHARES) HF Radio program into our county for interoperability.
7. **We offered to help with ANYTHING they had problems with.**
8. **We studied the interminable HF received noise problem at our county EOC**, purchasing

expensive equipment (a spectrum analyzer), and professionally characterized the reception challenges -- and then proposed, tested, and implemented successful solutions. Our antennas are now so good, we placed acceptably well in ARRL Field Day!

9. **Our license classes netted an influential member of the local law enforcement** community who was impressed with our professionalism. That connection opened new doors for us.

10. **We tried never to be the tail that wagged the dog.** We are a backup, and merely a tiny part of their overall mission to protect the county. **We try to stay out of their way.**

11. **We didn't cost the county a dime**, and yet we built a group that grew in professionalism and capabilities -- and as a result, the county began to allocate funding for the equipment that would allow our volunteers to be even more successful in the jobs the county wanted done.

12. **We brought in our own equipment** and made "long term loans" to the county after they indicated that was the cleanest way for us to improve their radio systems. Later, they bought (on their dime) far better equipment -- but we still have provided them with EMP-proof gear that you just can't buy off the shelf.

13. **We implemented the full Incident Command System** for managing our Field Day, and that was noticed.

14. **All of our exercises are published in bound form** and we gave copies to the emergency management department. The response was, "Your write-ups look better than ours!"

15. **We have members joining all kinds of outside groups** to gain more and more outside expert knowledge that would benefit our county.

## Conclusions

Naturally, we want to promote our own programs. Our programs are excellent sources of fraternity, training, service, and advancement. However, sometimes when it comes to serving the EOC, we have to recognize that an outside group such as ours comes with risk and potential liability. The emergency manager doesn't have the time or the resources to deal with that.

Things *you* can do: Replace your group's badges, logo hats, and polo shirts with the EOC-provided "Communications Volunteer" or "RADO" shirts, for example. Play up your role in, and knowledge of, the Incident Command System model. You are part of the Communications Unit, under the Logistics Section; you report to the COML, the Communications Unit Leader (COML), or *whoever is designated by the emergency manager*. (The COM Unit or COMU is not always activated. We have to recognize that the ICS structure is expandable to include those elements that are needed and may have variations in structure; for example, several logistics functions might fall under planning because there is no logistics section chief).

There are many other radio operator/communicators involved at the EOC -- professional Sheriff's department dispatchers, and other ESF radio operators, for examples. All operators need to be prepared to report to the COML or *designee* for tasking and coordination. We cannot bring our own group's organization, rules, and ways of doing things and try to force the staff to deal with them. That would be a subversion of the ICS and leave us outside of the EOC looking in.

Our groups' roles involve training our members to serve within the Incident Command System, no matter what that looks like at any given disaster. We write everything up with ICS-approved forms, send messages with the ICS message form, and otherwise use ICS for everything we do. The Red Cross has followed the ICS model, too: to wit, their ARC-213 message form, patterned after the ICS version.

Getting back to the local county's ARES program and operators here, the emergency manager is convinced that the operators will work well within her emergency management department and EOC under the incident command system, and she is now open to engaging with others who will present themselves as volunteers for the emergency manager, not as a particular group coming to run their show.

The emergency management staff is so comfortable with the county's ARES group that they ended up listing ARES as a component of the Emergency Support Function for Communications -- ESF2. That might be what ARRL Field Organization leaders want to see -- the promotion of their ARES programs -- but it is because of their emergency manager's choice, not due to our request. The EM staff looks at the group here and does not see risk, but rather opportunity for real service and support.

So we end up with what ARRL and ARES would like, but we get there by solving the EOC's problems and meeting their needs: how we can serve them by responding to their orders and tasks for us. We are not trying to sell them on ARES. We are trying to sell them on our individual volunteers who have completed the training requested and will serve confidently, competently, and appropriately. - *Rick Palm, K1CE, with Gordon Gibby, KX4Z*



## ARRL Learning Network Webinars

(ARRL Newsletter March 2021)

Visit the [ARRL Learning Network](#) (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions.

### Ask the Lab: How ARRL's Technical Information Service Can Help You -- ARRL Laboratory Manager Ed Hare, W1RFI / Tuesday, June 8, at 1 PM EDT (1700 UTC)

Learn all about the ARRL Technical Information Service (TIS) and the expert ARRL Laboratory staff who answer thousands of questions each year from members. Get tips about projects, suggestions to address various station installations, and help for some of your most pressing ham radio questions. You'll discover how to search ARRL's extensive Periodicals Archive, find helpful articles, read test reports, access technical forums, and find answers to technical questions.

These Learning Network presentations are sponsored by [PreppComm](#).

The [ARRL Learning Network](#) schedule is subject to change.

---

### FCC MATTERS

For many years, the FCC has established RF exposure limits for transmitting devices under the Commission's jurisdiction. As a practical matter, relatively few stations are required to exclude humans from close proximity to high power transmitters. TV and FM radio stations may have to reduce their transmit power while tower crews are fixing strobe lights or making antenna repairs. Sometimes the RF field is so strong that the stations have to go off the air for the tower crews. I have seen video of a man climbing the mast atop the Empire State Building at 3 a.m. in order to minimize revenue loss when five tv stations and six FM stations have to be shut down because the RF exposure levels are exceeded.

Last week, the Commission announced that updated rules will go into effect on May 3, 2021. According to the ARRL, the

new rules do not set new standards but no longer categorically exempt amateur radio licensees from calculating the RF exposure associated with their antennas. No later than May 3, 2023, licensees should have completed the needed calculations. Because amateur transmitters generally do not operate at very high power levels, and because humans are not typically in close proximity to antennas while radiating a signal, it is unlikely that the typical ham will have to create an exclusion zone near their antennas while transmitting.

The FCC has prepared guidance documents which implement the rules. ARRL's RF Safety Committee is also developing instructions to help amateur operators complete the required assessment.

Note that although the assessments for existing transmitters must be completed by May 3, 2023, any new station or a station that is modified in a way that affects exposure limits must come into compliance beginning on May 3, 2021. Information on this topic can be found at: <http://www.arrl.org/news/updated-radio-frequency-exposure-rules-become-effective-on-may-3>  
From ARRL April newsletter

RF Exposure and You is available in PDF format for free download from ARRL at, <http://www.arrl.org/files/file/Technology/RFsafetyCommittee/28RFSafety.pdf>

ARRL also has an RF Safety page on its website at, <http://www.arrl.org/rf-exposure>.

---

Articles in the Chatter can be from the ARRL Newsletters, ARES Newsletters and Section Managers. Others can be Material provided by others. Please respect possible copyrights.

## TARHEEL NET MANAGER

Mike Fagan, AE4MF, has done a fine job in the time that he has served as Net Manager for the Tarheel Emergency Net . He has informed me that he will move out of state at some time in the not too distant future.

If you are interested in becoming Net Manager of the Tarheel Net, let me or Mike (ae4mf at gmail) know of your interest. We would like the next Net Manager to have an opportunity to work with Mike before there is a vacancy. Duties include:

- a. Maintaining contact with net control stations for the various evening sessions.
- b. Recruiting net control stations when vacancies arise.
- c. Filing a monthly report with W4DNA Section Traffic Manager.
- d. Assist in developing a Net Operating Guide for distribution to net participants.

An ideal candidate would be one with a good hf signal heard across the state (subject to band conditions which are expected to improve), a willingness to work to increase net participation, and a desire to increase the usefulness of the Tarheel Net which has been in existence since 1947. The next Tarheel Net Manager may choose an Assistant Net Manager to assist the Net Manager.

## REGIONAL HAMFESTS ARE COMING BACK!!!

Many people have waited a long time for the return of hamfests and swapfests. The organizations that put these events on invest a lot of time, effort and money to make these events happen. Do your part and show your support by attending. The following events have been publicly announced.

Depending upon your location, you may want to save the date and plan on attending one or more of the following events:

- a. June 9, Knoxville TN Hamfest. Info at <http://www.w4bbb.org>
- b. July 24 WCARS Hamfest- Waynesville NC. Contact [wcars.nc.hamfest@gmail.com](mailto:wcars.nc.hamfest@gmail.com)
- c. August 14 22nd Annual Cape Fear Swapfest – Fayetteville NC. Info at <http://www.cfarsnc.org>
- d. September 3-5 Shelby Hamfest, Cleveland County Fairgrounds. Info at <http://www.shelbyhamfest.org>

e. September 24-25, W4DXCC DX and Contest Convention, Pigeon Forge, TN. Info at <http://w4dxcc.com>

f. October 2, 69th Annual Rock Hill Hamfest, Rock Hill SC. Info at <http://www.scssb.net/Hamfests/Hamfests.html>

g. October 7 Roanoke Valley Hamfest, Roanoke VA Info at <http://w4ca.com>

h. October 16 W4NC FallFest, Winston-Salem NC. Info at <http://W4NC.COM>

i. October 23 Carolina Amateur Radio Emergency Services Hamfest, Gaffney SC. Info to follow.

j. November 6 Stone Mountain Hamfest, Lawrenceville GA. Info at <https://www.stonemountainhamfest.com>

## ALUMINUM SHORTAGE AFFECTING ANTENNA MANUFACTURERS

In addition to shortages of computer chips which is limiting the production of certain SDR radios and the DSP circuits contained in them, word is spreading that the shortage of aluminum will soon cause shortages that affects ham radio. The limited availability of aluminum is likely to limit the manufacturing of hf vertical antennas as well as two way radio type dipoles for vhf and uhf.

A different story about shortages caught my eye last week. New media posted stories about several thousand new Ford F-150

pickups parked at the Kentucky Motor Speedway near Carlton, KY. The pickup trucks lack a variety of computer chips needed to make the truck operational. Check out the story at <https://www.wcpo.com/money/consumer/dont-waste-your-money/thousands-of-new-ford-pickups-parked-cant-be-sold>

From Newsletter from Marv, WA4NC.

## Larry Schwarz, W4RHY, (SK)

Larry Schwarz, W4RHY, (SK), 67, passed away February 1, 2019. He is listed in the Silent Keys in the June 2021 issue of QST. He lived in Winterville before moving back to Fayetteville. He was very active in the Pitt County area with his Amateur Radio. He had a computer bulletin board for a while with lots of programs for downloading and chatting. When the internet became popular in the mid 90s, he shut down the bulletin board and all the others soon disappeared. He spent his last few years in Greenville working at Batteries Plus Bulbs as a technician repairing battery packs and other duties. His boss, Tim Parkin said, "Larry was the best tech we ever had at Batteries Plus Bulbs in Greenville. His knowledge was extensive and he taught me how to do things the right way and best way. He could fix anything that came in. He is greatly missed."

It's a fact that he helped many in the area with his knowledge. He will be missed by many. BARC extends its condolences to his family and friends.

## Hollis Thigpen, KC3X, earns another tough award

Hollis, KC3X, Snow Hill, former BARC member earned Award #5 for working all 3077 counties for the TWELFTH Time on May 21, 2021. That's contacting counties over 36,900 times just to get to that award. It does take years. He said he was going to only do it once but it just keeps going and going and going because it's so addictive. He said now he's going to have

to start at the beginning again for another 3077. He got Pitt County on May 22 because we talked for a few minutes on 75 meter SSB waiting for a mobile in VA that was going to my last in VA. He has worked all counties FIVE times finishing on April 25, 2021 using CW only. There are over 60 awards on the MARAC database that he has earned.

A tornado that destroyed his home, station and antennas, may have slowed him down a bit but not much. Go to <https://www.qsl.net/w4amc/barcpics.html#Other> and you can see pictures and WCTI-TV videos of what the 2011 tornado did to his home and tower.

Congratulations Hollis for an outstanding accomplishment.

*Yakkey-Dee-Yak from Dave,*  
W4YDY (Thank you Dave!)

### **2021 is the centennial of the Finnish Amateur Radio League (SRAL).**

The special anniversary call sign OH100SRAL is being used throughout the year. Working at least 100 Finnish stations during 2021 qualifies the operator for an award.

### **Announcements**

Japanese Antarctica Research Expedition (JARL) station 8J1RL will be active from February 2021 to January 2022 with Takumi, JG3PLH, at the helm. 8J1RL is located at the Japanese Syowa Station on East Ongul Island in eastern Antarctica. Activity will be on SSB, CW, and FT8, 7 - 28 MHz.

---

### **VERY IMPORTANT CORONA VIRUS INFORMATION**

**WEAR ANY MASK while outside in public AT ALL TIMES (N95, surgical mask or bandanna in that order of effectiveness) as they all reduce the spread of the virus. The data shows that there is a 98% reduction in transmission of the virus if you wash your hands at least 4x a day and wear a mask. Lets ALL DO THIS for the sake of the country!!!!**

**Dr. Peter Van Houten, N4PVH**

*Editors Note: Since this statement was written, North Carolina now allows bigger gatherings and no mask requirement for those vaccinated. If you had your vaccine, please remember to Mask up near our fellow folks who chose not to do so if requested. For those who has not had the vaccine, please protect yourselves.*

*Thank you.*

*Mark Raysin, KG4GVJ*

## Wooden Satellite to Launch by Year's End

The WISA Woodsat project, being sponsored by plywood supplier WISA in an unconventional PR initiative, is poised to place a wooden satellite into orbit by the end of the year. The idea is to test the suitability of treated wood as a low-cost and widely available material for space applications. The [IARU posting](#) for Woodsat indicates that several amateur radio experiments will be on board as well as photo downlinking, including selfies.

The wooden satellite is based on a basic, versatile CubeSat format, Kitsat, which is designed with educational use in mind. It retails for just \$1,500. Based in Finland, the Woodsat project began with students across the country contributing parts to a CubeSat launched by balloon. The satellite will be a 10-centimeter cube weighing 1 kilogram, covered on all sides by coated birch plywood from WISA Plywood. Nine small solar cells will power the satellite, which will orbit at an altitude of 500 - 550 kilometers.

As the sponsor explained, "WISA Woodsat will go where no wood has gone before. With a mission to gather data on the behavior and durability of plywood over an extended period in the harsh temperatures, vacuum, and radiation of space in order to assess the use of wood materials in space structures."



Once in orbit, Woodsat will be able to extend a selfie stick to capture photographs of the wooden box as it hurtles through space at 40,000 kilometers (24,800 miles) per hour. This will allow the mission leaders to monitor the impact of the environment on the plywood.

The satellite would downlink its telemetry and images from two cameras using amateur radio frequencies.

"The wooden satellite with a selfie stick will surely bring laughter and goodwill," added mission manager Jari Mäkinen of Arctic Astronautics.

"Essentially, this is a serious science and technology endeavor. In addition to testing plywood, the satellite will demonstrate accessible radio amateur satellite communication; host several secondary technology experiments; validate the Kitsat platform in orbit, and popularize space technology."

An April 23 *Engineering and Technology* [article](#) has more information. -- Thanks to AMSAT News Service via JoAnne Maenpaa, K9JKM; E&T, and the IARU

## Hurricane Season 2021: Nets to Know

[Caribbean Emergency Weather Net](#) - Meets daily at 1030Z and 2230Z on 3815 kHz.

[Hurricane Watch Net](#) -- 14.325 MHz, 7.268 MHz - Activated whenever a hurricane is within 300 nautical miles of expected landfall. Disseminates storm information and relays meteorological data to National Hurricane Center via embedded NHC station WX4NHC. Also relays post-storm damage reports and other relevant information.

[Intercontinental Net](#) operates from 7 AM to noon US Eastern Time on 14.300 MHz, providing a means of emergency communications to any location where normal communications are disrupted.

[Marine Maritime Services Net](#) -- 14.300 MHz -- The network acts as a weather beacon for ships during periods of severe weather and regularly repeats high seas and tropical weather warnings and bulletins from the National Weather Service and the National Hurricane Center.

[Salvation Army Team Emergency Radio Network \(SATERN\)](#) -- 14.260 MHz -- The purpose of the SATERN net is to support the Salvation Army operations in local, regional and international disaster situations. - *ARRL US Virgin Islands Section News*



### New Bern MS Bike 2021 is coming!

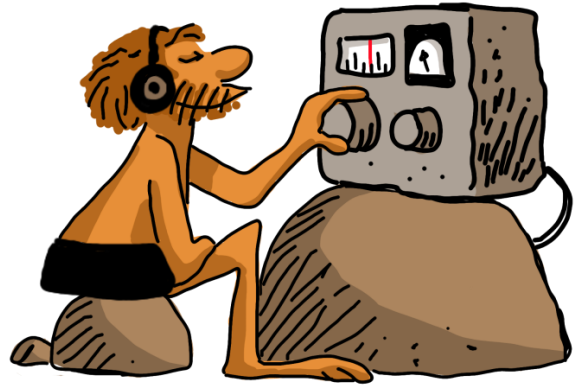
After 2 cancellations (Or is it 3?) due to a Hurricane then a Virus, MS Bike is trying again this September 11-12, 2021 to be up and running. Hopefully there will be no Cancellations this year. This event consist of many bikes being ridden for two days. There is 4 different length of routes the bicyclists can take. Each day a different way to go.

Ham radio operators help on the course. Operating at the rest stops, driving on the roads checking on the riders, manning the Net Control, shadowing MS Leaders, providing rides and reporting needed information by radio thru it all. A few years ago, when I was able to help, several problems occurred. Someone had put tacks on the roads to cause many flat tires, riders colliding into each other, falling off bikes. I had a rider suffering sever cramping, requiring me to call 911 at the Nurse's request. Riders and their equipment needed transportation as needed. Tracking the last rider who was going the longest route for the first time and was way behind the others in time and distance and ensuring water and snacks were available for them after closing the rest stops for the day.

Check on status and sign up if interested. If your looking for a Hotel for the weekend of it, start looking now. Many Bikers will also be looking.

By Mark Raysin, KG4GVJ

# Ham Ads



*Ham Ads* will be run, free of charge in Ham Chatter for three months for each renewal. Ads must be received by the last week of the month to be included in the following issue. Send ads to: **Ham Chatter, PO Box 8387, Greenville, NC 27835. Or Email the Ham Chatter.**

## Used Radios and equipment for Sale:

**Icom IC-706** with Manual, HF+2Mtr, no Microphone. \$250

**Yaesu FT-817ND**, no Microphone, with Nifty Guide, Programming software, Signalink, LDG Z-817 Tuner, LnRPrecision Antenna EF-10/20/40 MK2, Power supply/charger. \$550

**Icom 2100H**, 2mtr Mobil, microphone, Programming software. \$150.00

**Kenwood TM-D700A**, 2 band 2m 40cm APRS radio with microphone, USB to serial cord, Manuals and programming software. \$250

MFJ-906 6mtr Tuner \$80.

Heathkit HW-8 Radio (CW) with Manual \$100.

**Shipping if needed, not included in prices.**

**Contact: Mark, KG4GVJ, Cell: 252-814-3557, Email: [Mark-driedgrape@gmail.com](mailto:Mark-driedgrape@gmail.com)**

---

Tytera MD 380 UHF DMR & Analog HT, includes one battery, and charger, and box.  
Programmed, but buyer will need to get an DMR ID, and change the ID in the HT  
Asking \$75.00

Bernard Nobles WA4MOK  
[wa4mok@embarqmail.com](mailto:wa4mok@embarqmail.com)

# Ham Ads

*Ham Ads* will be run, free of charge in Ham Chatter for three months for each renewal. Ads must be received by the last week of the month to be included in the following issue. Send ads to: **Ham Chatter, PO Box 8387, Greenville, NC 27835. Or Email the Ham Chatter.**

## Commercial Ad Rates

1/8 page, Business Card Size  
 \$10 per Month - \$100 per Year  
 Send ads to: **Ham Chatter,  
 PO Box 8387, Greenville, NC 27835**  
 Help support *Ham Chatter* and the club. **Donations accepted!**

### How to print a copy of your FCC License

by Jim, KV4SJ

To access an official copy of your license:

1. Go to: [HTTPS://wireless2.fcc.gov/UlsEntry/lieManager/login.jsp](https://wireless2.fcc.gov/UlsEntry/lieManager/login.jsp)
2. Log in with your FRN and password. (Also has links to find or get your FRN.)
3. Click on "Download Electronic Authorizations" in the links on the left hand side.
4. Select your call sign in the box labeled "My Authorizations" and click on the Add button to copy it into the "Authorizations to Download" box.
5. Click on the Download button to download an official copy of your license in PDF format.

via *Forsyth ARC Newsletter, August 2020*

### BARC MEMBERS

If you are not receiving *Ham Chatter* email notices, please send an email to [hamchatter@w4amc.com](mailto:hamchatter@w4amc.com) so I can get your email address. I know some have said they do not receive them but haven't sent me their address. You may miss some important BARC notices. - *KG4GVJ and W4YDY*

### BARC on FACEBOOK

<https://www.facebook.com/w4amc/>

### Facebook and Group details

<http://www.w4amc.com/barcnews.html#BARC>

### Pitt County Repeater Association

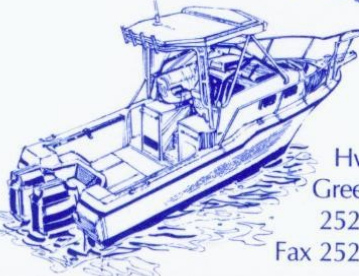
<http://www.pcra.us/>

*Monday & Monday, CPA's, PA*  
 Certified Public Accountants

TERRY A. MONDAY, CPA, CVA, EA  
**K4ZYD**

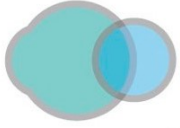
105-D East Victoria Ct. Phone (252) 321-6007  
 Greenville, NC 27858 Fax (252) 321-2991

**MARK'S MARINE, INC.**



Mark Langley  
 Mike Langley  
**KD4MTT**

Hwy. 33 East  
 Greenville, NC  
 252 758-3309  
 Fax 252 758-1396



**East Carolina Retina**  
 CONSULTANTS

**Peter Van Houten, M.D.**  
 2501a Stantonsburg Road  
 Greenville, NC 27834  
 252-758-2402  
<https://ECRetina.com>

# BARC CALENDAR OF EVENTS

June 8 . . . . . Regular Meeting - 7PM  
 June 11/13 . . . . . June VHF Contest  
 June 15 . . . . . BARC Emergency (BECW)  
 June 25/26 . . . . . Field Day 2021  
 June 29 . . . . . Board Meeting - 7PM  
 July 3 . . . . . Ham Chatter **Deadline**  
 July 10/11 . . . . . IARU HF World Championship  
 July 13 . . . . . Regular Meeting – 7PM  
 July 20 . . . . . BARC Emergency (BECW)  
 July 27 . . . . . Regular Board Meeting—7PM  
 July 31 . . . . . Ham Chatter **Deadline**  
 Sept. 11-12 . . . . . New Bern MS Bike 2021  
**Regular Meeting** - 2nd Tuesday @ 7:00 PM  
**BARC Emergency Communication Workgroup** -  
 3rd Tuesday @ 7pm ZOOM  
**Board Meeting** - Last Tuesday @ 7:00 PM ZOOM  
 Contest Calendar: All the rules:  
<https://www.contestcalendar.com/weeklycont.php>

- June 2 -- CWops Mini-CWT Test (CW)
- June 2 -- VHF-UHF FT8 Activity Contest
- June 2 -- CWops Mini-CWT Test (CW)
- June 3 -- CWops Mini-CWT Test (CW)
- June 3 -- NRAU 10-Meter Activity Contest (CW, phone, digital)
- June 3 -- SKCC Sprint Europe (CW)

### Upcoming ARRL Section, State, and Division Conventions

Many conventions and hamfests have been canceled or postponed due to the coronavirus pandemic. Check the [calendar of canceled events](#) on the ARRL website.

- June 5 -- [ARRL Northwestern Division Convention](#) (SEA-PAC; online)
- August 14 - 15 -- [QSO Today Virtual Ham Expo \(online\)](#)
- August 21 - 22 -- ARRL [Southeastern Division Convention](#) (Huntsville Hamfest), Huntsville, Alabama

Find conventions and hamfests [in your area](#).

### Other events:

- June 1 -- Worldwide Sideband Activity Contest (Phone)
- June 1 -- RTTYops Weeksprint

---

BARC 2 METER NET - MONDAY NIGHTS AT 8:00 PM - 147.09 W4GDF REPEATER - 131.8 Tone  
 Down East Hospital Net - 2nd Tuesday at noon - Greenville 444.725 MHz, 91.5 tone N4HAJ  
 BRIGHTLEAF AMATEUR RADIO CLUB STATIONS

**W I V O A - W 4 A M C - W 4 U H S**

---