



The Listening Post



Dedicated to Community Service and All Central Florida Hams

August 2019

President's Message

Greetings!! Greetings!! I hope everyone is doing well. Ahh! August is here! Only 2 ½ months until our first cool front normally arrives. The beginning of Football season! College Football Saturdays! HamCation Committee meetings! Everything starts to happen in August.

Back a few weeks ago, members of OARC, OCARES, and LMARS came together and helped with another Technician Class. We had 26 registered for the class
(Continued on Next Page)

OARC MEETING

August 7, 2019 7:30pm

Beardall Senior Center
800 Delaney Ave, Orlando, FL 32801
ARRL Testing: 5:30pm

For information & Updates
See www.oarc.org

OARC Board of Directors

President: John Knott, N4JTK
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The Listening Post is the OARC newsletter for OARC members. The LP will be distributed electronically via E-mail and the OARC web site (www.oarc.org).

Editor: Ed Thralls NE4H.

Comments, suggestions and articles are welcome. Send to editors@oarc.org.

Contributing to this edition: John Knott N4JTK, Michael Cauley W4MCA, James Deuel N0XIA, Peter Meijers AI4KM and Ed Thralls NE4H

OARC REPEATERS

Call	Freq	Shift	PL
KB4UT	146.760*	-600	103.5
N4UMB	147.015	-600	103.5

* Fusion Repeater

D-Star

K1XC C	146.820	-600	
K1XC B	443.275	+5MHz	
K1XC A	1275.00	-12 MHz	Voice
K1XC A	1255.00	-12MHz	Digital
W4PLB C	145.160	+600	
W4PLB B	442.300	+5MHz	

All D-star repeaters are connected

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President's Message (Continued from Previous Page)

and 8 people came to the class. We are happy to say that 7 walked away passing element 2. The 8th individual was an 8-year-old who I am sure will pass his test very very soon. He was an absolute joy to have in the class and all of us cannot wait till he passes his test!

We're working on scheduling another class for this year. It could be a General Class. If you're interested in upgrading your license and want to take the class, buy the Gordon West General Class License study guide. Make sure it is valid 2019-2023. Once a date is set, we'll post it on our website.

Coming up at the August meeting, our guest speaker will Joe Eisenberg, KONEB. Joe has been licensed since 1969 and is currently the Kit Building Editor for CQ Magazine. Joe currently resides in Lincoln Nebraska and is a frequent visitor to HamCation. Joe will be joining us via Skype and will be doing a presentation on Kit Building.

I hope to see everyone on Wednesday August 7 at our August Meeting. Meeting begins at 7:30pm and ARRL Test Session begins at 5:30pm.

73

John Knott

N4JTK

HamCationSM Chairman Column (by Michael Cauley, W4MCA)

Greetings Everyone

As you read this, we are a little over six months from HamCation. Our 1st official HamCationSM Committee meeting is August 3, 2019.

Our new registration system will be live the 1st week of August.

Please welcome Kayleigh Harrison to our team. I met with Kayleigh at the OARC/OCARES Technician Class and she has agreed to be our Public Relations Chair. This will also include all aspects of social media. Kayleigh's background includes: Communications Degree (Journalism Concentration), 10 years of event planning, 8 years Social Media

Kayleigh currently runs or has ran professional and personal social media accounts.

Kayleigh does not have her ticket yet but plans on taking the Technician exam in the very near future. I am very excited in welcoming Kayleigh to the team and filling a very important position on our team. I'm sure that over the next many months of HamCationSM planning you will get to know her.

We will be manning a booth at Huntsville Hamfest the weekend of August 17 and 18. Huntsville is the 3rd largest Hamfest in the US.

73

Michael Cauley
HamCationSM General Chairman

The HamCationSM International Relations Committee is in full swing through Europe

(By Peter Meijers, AI4KM)

Recently HamCationSM was well represented in Germany during the Ham radio event in the City of Friedrichshafen. The huge exhibition Centre, known as the Messe, accommodated over 14,500 visitors at Europe's biggest ham radio show.

The well-known HamCationSM booth, was next to the ARRL. It was a perfect setting to attract visitors from 58 countries from all over the world to come to Orlando. The 3-day show consists of one huge hall with commercial vendors and the radio clubs, the three other buildings with swaps. A big promotion for youth activities, around 120 young hams from all over the world camped in the buildings to participate in ham radio activities. HamCationSM donated caddy coins to each and every one of them, to take back home and show them the existence of HamCationSM in Orlando.

Thanks to the HamCationSM General Chairman Michael Cauley and OARC President John Knott we were able to give visitor's promotional items like bags, pens and unique for Europeans the caddy coins. In the USA, food stores like Aldi use this to be able to get a shopping cart. Many times, we provided information by giving out HamCationSM flyers. A big group of American Hams from California visited us and told us they had gone to Orlando after we started promoting the show last year. At the same time, we met with some of our HamCationSM vendors in Friedrichshafen but also with vendors from other countries who were interested in obtaining Commercial vendor space at HamCationSM. Thanks to a group of 6 Dutch hams the HamCationSM booth was a big success. Part of the team volunteered this year at HamCation and could provide information and experiences about the show at first hand.

The International Relations team is not done yet. Last weekend of September we are attending the RSGB -Royal Society of Great Britain- National Hamfest 2019 in Newark. This year's last promotional tour of the HamCationSM International Relations team is

seen in the Dutch city of Zwolle. That means that for 2019 approximately over 25,000 people will be informed about HamCationSM in Orlando. Covering the shows is a lot of work, but thanks to the tremendous support from the Orlando HamCationSM leadership, HamCationSM is put on the map more than ever.

Peter Meijers, AI4KM
International Relation Co-Chairman

Radio Scouting, Inc.*
HAM events at Camp La-No-Che
41940 Boy Scout Rd, Paisley, FL 32767
(by Ken Lyons KN4MDJ)

Our next event will be every Saturday in October where we will be doing WiFi ARDF each weekend and have a blowout for the 19th for JOTA/JOTI (Jamboree-on-the-air).

October 19th, 2019 Jamboree on the air (JOTA) is Scouting's largest world-wide event, all in one weekend. 1.8 million scouts, mostly in the Pacific, connect to exchange names and details and learn about radio. We broke national records last year with 1010 participants, let's see if we can get all 2000 and maybe more with overflow in Rybold. Perhaps LARA and OARC may bring their EMCOM trailers for more demonstrations? <https://scoutingevent.com/083-Halloween>

Dec 7th, 2019 Jubilee '19, a Mini Field day, fox hunting, DX contacts, demos for all ages. LOCATION: Osceola Heritage Park, 1875 Silver Spur Ln, Kissimmee, FL 34744
<https://scoutingevent.com/083-Jubilee>

*Radio Scouting, Inc. is a IRS 501(c)3 non-profit charity to promote radio knowledge and youth activities for scouting and the community.

**IARU President Offers Assurances Regarding
French 144 - 146 MHz Allocation Proposal**
(The ARRL Letter for July 11, 2019)

International Amateur Radio Union ([IARU](http://www.iaru.org)) President Tim Ellam, VE6SH/G4HUA, said his organization empathizes with the concerns of radio amateurs worldwide regarding a French proposal to allocate 144 - 146 MHz to the Aeronautical Service on a primary basis, essentially sharing it with Amateur Radio. The band is currently allocated to Amateur Radio on a primary basis around the world. Ellam this week offered assurances that the IARU is on top of the matter, which is still a



regional issue and is already working to keep the band in the hands of

radio amateurs. While the issue could end up on the agenda of World Radiocommunication Conference 2023 (WRC-23), a lot would have to happen first.

"There is a lot of misinformation circulating as to what the proposal is seeking and how IARU is responding to it," Ellam told ARRL. "While the proposal is a concern, petitions and the like, while well intended, are going to have very limited value and, in fact, may harm the steps being taken in the regulatory environment."

The French proposal, submitted last month to a pre-WRC-19 European Conference of Telecommunications and Postal Administrations (CEPT) meeting, included 144 - 146 MHz within a range of frequencies to be studied for future airborne, non-safety applications in the Aeronautical Service. Germany opposed the move, and IARU "objected strongly," Ellam said. "Nonetheless, the proposal was carried forward to the next meeting of the CEPT Conference Preparatory Group in late August." IARU anticipates that other countries attending the August meeting will oppose the inclusion of 144 - 146 MHz as a frequency range to be considered for the WRC-23 agenda, Ellam said.



**IARU President
Tim Ellam,
VE6SH/G4HUA**

Since the June meeting, IARU Region 1 (Europe, Africa, and the Middle East) has asked its member-societies to contact their national administrations (i.e., governments) to explain the importance of the 144 - 146 MHz primary allocation, Ellam recounted. "IARU is also taking other actions to make its views known to those involved in the proposal," he said.

"If accepted as a WRC-23 Agenda Item, this proposal would require *4 years* of studies by administrations," Ellam stressed. "Considering the challenges of sharing spectrum with aeronautical systems, it seems inevitable that the conclusion of such studies would be that sharing with a widely used part of the amateur spectrum presents too many problems to be viable."

Ellam encouraged individual radio amateurs who want to help to become members of their IARU member-society. "If anything," Ellam concluded, "this recent news should serve as a timely reminder that defense of the amateur spectrum does not just happen. Your member-societies and the IARU constantly work at defending the amateur allocations."

WORD TO THE WISE

(The ARRL Contest Update for June 26, 2019)

"Moving Multipliers"

Asking a station, you're in a contact with to move to another band where they'd be a multiplier for you. This is most effective when the other station is not busy, and should only be done when there's a reasonable expectation that you'll actually be able to make a contact on that different band subject to propagation. You should also agree on a frequency before QSYing to the new band.

(The ARRL Contest Update for July 10, 2019)

"Country File"

A file used by your logging program that maps call sign patterns and individual call signs as necessary to countries and zones so that you can have an accurate display of worked versus needed multipliers during a contest. See further information about country files, above.

OPERATING TIP

(The ARRL Contest Update for June 26, 2019)

Embrace Automation

"Reducing cognitive load" is just another way of saying that you're fool-proofing common operations by automating them. Automating manual tasks can gain a few seconds here and there, but even more importantly reduces the opportunity for human error in the wee hours.

(The ARRL Contest Update for July 10, 2019)

Rates are Relative

If you've been maintaining a high run rate for an extended period of time, any reduction is bound to feel like there's something wrong. A 75 QSOs-per-hour rate seems slow after you've been running at 120+ per hour, but it might be all that you can do on that particular band at this particular time. Modern logging programs can tell you what your rate is for the last 10 or 100 contacts. Use this information to help you make a decision based on data vs. your gut. Is another band better? Better check before committing to the change!

CONVERSATION

(The ARRL Contest Update for June 26, 2019)

What Does Operating Assisted Mean (2019)?

Every few months it seems we get some new tool or technology to help put more contacts into the log more quickly. Call histories and contact exchange pre-fills, along with spots filling the bandmap are standard fare, and don't even qualify as "assistance" in many contests. Last year, spectrum displays, and annotated waterfalls became must-haves for many. Once a new feature is established, more nuanced usages become desirable over time, for example clicking on a call sign can QSY to a frequency automatically, zero-beating or specifically NOT zero-beating the target station at the operator's choice in the hopes of working it as quickly as possible. If internet spots are not voluminous enough, a local skimmer can find those stations that haven't been spotted yet. Will 2019 find contesters selecting specific low-latency spot servers to get spots before their competitors, the way high-frequency traders seek to get closer to stock exchanges? With recent improvements to *N1MM Logger+*, radio spectrum information is digested by the logging program so the computer can quickly find the next empty frequency up or down the band for runs, or tune to frequencies that are in use for searching and pouncing; probably more quickly than many humans.

Propagation predictions that inform operating strategy are readily available, but perhaps we'll see this information incorporated into a more advanced "Auto Elmer" type feature. A hypothetical "Auto Elmer" considers real-time solar weather inputs, current spot streams, VOACAP models, past logs, and current multipliers worked and multipliers needed to generate actionable suggestions of what the operator should be doing right now instead of what they are doing. The advice feature could present a list of tactics, and then execute with just a click, relying on the capabilities of the logging program to, for example tune to a new band, find an empty spot (consulting spot data as well as spectrum data), enter run mode, and start sending the CQ message.

Some might see any additional operator aids or technology improvements like an "Auto Elmer" as a drop of another few feet down the slippery slope to the operator's eventual role of just hitting the "Enter" key at the right time after the computer does everything, while others might see it as a way to be able to help operators to concentrate on operating.

That's all for this time. Remember to send contesting related stories, book reviews, tips, techniques, press releases, errata, schematics, club information, pictures, stories, blog links, and predictions to contest-update@arrl.org

73, Brian N9ADG

In Brief...

(The ARRL Letter for June 27, 2019)



A "Grand Solar Minimum" may be approaching. A [juried research paper](#) in *Nature*, "Oscillations of the baseline of solar magnetic field and solar irradiance on a millennial timescale," suggests that a "grand solar minimum" -- similar to the legendary "Maunder Minimum" -- is approaching, starting as early as next year and lasting for three solar cycles. That would be bad news for HF enthusiasts already struggling with marginal conditions. As the paper's abstract explains, "Recently discovered long-term oscillations of the solar background magnetic field associated with double dynamo waves generated in inner and outer layers of the Sun indicate that the solar activity is heading in the next three decades (2019 - 2055) to a modern grand minimum similar to Maunder one." As propagation buff and contestester Frank Donovan, W3LPL, observed, "It's very uncertain if this forecast is correct, but, as usual, the forecasts of the next solar cycle are all over the map. Let's hope these scientists are wrong."

ARRL Announces "Happy 150!" Hiram Percy Maxim Birthday Celebration

(The ARRL Letter for July 11, 2019)

This year marks the 150th anniversary of the birth of ARRL's first president and cofounder Hiram Percy Maxim (HPM), W1AW, born on September 2, 1869. ARRL will hold an operating event to celebrate HPM's legacy, getting under way at 0000 UTC on August 31, and continuing until 2359 UTC on September 8. The event is open to all radio amateurs.

The goal is straightforward: Contact as many participating stations as possible. W1AW and *all* ARRL members will append "/150" to their call signs during this event (DX operators who are ARRL members may identify as *<call sign>/150*, if permitted by their country of license.) Participating stations will exchange signal report and [ARRL/RAC Section](#). DX stations will send signal report and "DX." Those taking part may use all Amateur Radio bands, *excluding* 60, 30, 17, and 12 meters.

Permitted modes: CW, phone (any voice modes), and digital. Submit Cabrillo log or ADI files. ARRL will



calculate all final scores based on participants' uploads to the ARRL event web app (link not yet active).

The 84 available multipliers only count once. These include the 83 ARRL/RAC Sections (RAC Sections include the Canadian Northern Territories, encompassing VE8, VY1, and VY0) and DX. The W1AW operating schedule during this period may be adjusted as necessary to accommodate on-air celebration operating activities. Contacts with W1AW/150 will earn 3 points each. Contacts with any ARRL member will earn 2 points each. These stations will also identify as < call sign >/150. Contacts with nonmembers will earn 1 point each.

Participants can earn 150 bonus points by:

- Contacting W1AW/150 on each band and mode.
- Uploading entries (ARRL members only).
- Using social media to publicize this event and/or participation before, during, and/or after the event.
- Operating with 5 W PEP output or less throughout the event.
- Making at least 20 contacts while operating portable.
- Completing at least 150 contacts.

Online certificates will be awarded, and are available [via download](#) only. Updates and results will be [publicized](#).

There are no power or operator categories. Participating ARRL members who use Logbook of The World (LoTW) are encouraged to [create a separate LoTW certificate](#) for uploading < call sign >/150 contacts. Members then should upload logs for this event using their /150 certificates. Submissions must be via the online web app. No email or paper submissions will be accepted.

Centenarian Radio Amateur's Efforts Helped Pave the Way to the Moon

(The ARRL Letter for July 18, 2019)

The Nashville Tennessean newspaper recently [featured](#) the story of a 104-year-old ARRL member who contributed to NASA's effort to put the first humans on the moon 50 years ago this month. Cary Nettles, W5SRR, of Columbia, Tennessee -- who calls himself the nation's oldest rocket scientist still alive -- was a NASA project manager and research engineer on rocket propulsion systems in the 1950s and 1960s.



While working on the Centaur second-stage rocket program, Nettles determined that the rocket engine failures NASA was

experiencing were a result of misdirected exhaust destroying the vehicles' engines. Nettles told the *Tennessean* he came up with an "exhaust pipe" that solved the problem. In May 1966, an Atlas-Centaur launcher propelled the first *Surveyor* lander toward the moon. That year, NASA awarded Nettles and colleague Ed Jonash with its Distinguished Service Medal for "their superhuman effort in turning the troubled rocket into a reliable upper stage," according to a 2004 NASA publication, "Taming Liquid Hydrogen -- The Centaur Upper Stage Rocket 1958 - 2002."

On July 16, 1969, a Saturn V rocket with a liquid hydrogen-fueled second stage carried astronauts Neil Armstrong, Buzz Aldrin, and Michael Collins to their rendezvous with the moon. Nettles retired from NASA the following year.

Nettles got his Amateur Radio license in 1945 and remains active on 40 meters as well as on VHF and UHF repeaters. He is a member of the Maury Amateur Radio Club. In addition to sustaining his interest in ham radio over the decades, Nettles is an enthusiast of "large-scale" steam trains, which he works on in his basement. Look for him Tuesdays at 1400 UTC on 7.215 MHz on the Steam Railroad Net.

In 2015, the year he turned 100, the ARRL Tennessee Section presented Nettles with its Elder Statesman Award.

World Wide Radio Operators Foundation Announces Global Digital DX Contest

(The ARRL Letter for July 18, 2019)

The World Wide Radio Operators Foundation ([WWROF](#)), in collaboration with the Slovenia Contest Club ([SCC](#)), has announced the World Wide Digi DX Contest ([WW Digi](#)), which it hopes will become an annual event. The inaugural running of the 24-hour contest will take place on August 31 - September 1. The new contest aims to tap into the enthusiasm being generated by the new digital modes pioneered by Joe Taylor, K1JT, and the *WSJT-X* Development Group. Participants will use FT4 and FT8 on 160, 80, 40, 20, 15, and 10 meters. The WW Digi will utilize a distance-based scoring system, with participants earning points based on the distance between grid square centers of the two stations in a given contact.



"This will encourage operators to seek out long-distance, weak-signal contacts that highlight the technical advantages of the new digital modes," WWROF's announcement said.

To encourage activity across all bands, each new two-character grid field contacted on each band will be a multiplier. The final score will be the product of total contact points and grid *field* (i.e., the initial two letters) contacts. Single-operator and multioperator entries are invited to take part.

"The contest has been designed to enable making contacts utilizing standard *WSJT-X* software behavior, making it easy for non-contesters to participate," the announcement said. "At the same time, the contest supports some new techniques that will encourage operating innovation, such as permitting stations to work up to three 'QSO streams' on a band at one time. Robotic operation is specifically prohibited in order to keep the human element as part of the game."



Swap/Shop/Sell/Trade in *The Listening Post*

This is the opportunity for you to list your amateur radio related items you either have for sale, swap or trade. Listings must be of a non-commercial nature. Pictures of the items can be included.



Ed Thralls, NE4H, 407 254 9209, rusty.trowels@gmail.com

Item #1: GAP TITAN DX

The Titan is the ONLY antenna marketed with total continuous coverage under 2:1 on 10m 12m 15m 17m 20m 30m 40m and 100 KHz on 80m. The Titan is a respectable 25' tall and weighs a solid 25 pounds. The Titan is configured to mount easily on a 1-1/4" O.D. mast. Additional details can be seen at:

<http://gapantenna.com/shop/antennas/titan-dx/>

Asking price: \$275.



Ed Thralls, NE4H, 407 254 9209, rusty.trowels@gmail.com

Item #2: Cushcraft AS3 multi-band three element beam antenna. Used three months; stored in attic for several years. Weighs 27 pounds has a 15.5' turning radius and offers 4.36 sq.ft. wind surface area. Additional details can be seen at: <https://www.dxengineering.com/parts/csh-a3s>

Asking price: \$375.



Larry Nicholson, WA4KO, 836-357-5837

nlarry07@yanoo.com

3857 SW 11th Ave

Okeechobee, FL 34974

ICOM 7700 Serial #0201699

Bought new from Giga Parts

Comes with #50 ICOM Microphone

Original Box

Original manual

There are no scratches on the radio. It looks and operates in new condition.

Asking price: \$2,500

If both the amp and radio are bought together, Larry will throw in a Bird meter and two towers. One is a 45-foot steel and the other is a crank up aluminum.

This is a deal for anyone wanting a serious HF station. Both units are current products and you would be spending close to 12 grand just for the amp and radio alone if bought brand new off the shelf.



Larry Nicholson, WA4KO, 836-357-5837

nlarry07@yanoo.com

3857 SW 11th Ave

Okeechobee, FL 34974

ALPHA 8410 Serial #841011120192

Bought new from ALPHA

Comes with #50 ICOM Microphone

Original Boxes

Original manual

There are no scratches on the radio and it operates as new.

Asking price: \$2,500

If both the amp and radio are bought together, Larry will throw in a Bird meter and two towers. One is a 45 foot steel and the other is a crank up aluminum.

This is a deal for anyone wanting a serious HF station. Both units are current products and you would be spending close to 12 grand just for the amp and radio alone if bought brand new off the shelf.

OARC will not be responsible for any claims that are made in the listings. OARC reserves the right to reject a submitted item if it is deemed to be inappropriate. A listing will not be repeated from month to month unless it is resubmitted.

Be sure to include your full name, call, and contact information, along with an exact description of the item.

Send your amateur radio related items by email directly to: James Deuel, NOXIA, jdeuel@oarc.org in the following format:

Name, Callsign, Contact information (phone number and/or e-mail address)

Item #1: (Description) Asking price: \$

Item #2: (Description) Asking price: \$

Or

Looking for (description) and willing to pay up to \$

Any item received after the 20th of the month will not be included in the next month's issue of *The Listening Post* newsletter.

Remember - KB4UT, Wayne Nelson's Trader Net held every Tuesday night at 8:00 PM, on the KB4UT 146.760 repeater

If you don't hear what you want on the net, check the Listening Post.

Weekly Radio Network Meetings

Mon @ 20:00	147.460	Seminole ARES Net
Tues @ 19:00	145.350	Osceola ARES Net
Tues @ 19:30	147.195	Quarter Century Wireless Association
Tues @ 20:00	146.760	Wayne Nelson Trader's Net
Wed @ 19:00	147.300	Disney Emergency Amateur Radio Service
Wed @ 21:00	432.090	Florida Weak Signal Group
Thur @ 19:00	443.050	Orange County ARES Net
Thur @ 20:30	432.090	Florida Weak Signal Group

HELP WANTED

We are in need of a co-editor for our monthly Listening Post. The job duties are to collect the articles from various authors/members within the club and on the Board of Directors. Gather other information pertinent to creating a newsletter. Afterwards provide the President with a print ready copy of the newsletter for publication to the membership.

You will be working with another co-editor and as in the past, one co-editor takes one month the other co-editor takes the following month, creating a monthly rotation. Having some editing and newsletter creation is a huge plus. Patience dealing with volunteer authors is golden!!

If you are interested, please contact John Knott, N4JTK at jknott@oarc.org . If you have any examples of your work you want to send, please do so.

OARC Meetings and Events 2019

August 7, Wednesday	Meeting , 7:30pm at the Beardall Center
September 4, Wednesday	Meeting , 7:30pm at the Beardall Center
October 2, Wednesday	Meeting , 7:30pm at the Beardall Center
October 13, Sunday	Ride 4 Ronald
November 6, Wednesday	Meeting , 7:30pm at the Beardall Center
December 4, Wednesday	Meeting , 7:30pm at the Beardall Center
December 7, Saturday	Christmas Party *** Buy Tickets Sep, Oct, Nov, at club meetings (No purchases at the door), Don't forget an unwrapped toy for a tot
January 1, Wednesday	Meeting Canceled

December 2019 Meeting Announcement

This year we will be having a December meeting. The Meeting will be held on Wednesday December 4, 2019 at 7:30p at the Beardall Senior Center. There will **NOT** be a January 2020 Meeting as this is New Year's Day and Beardall is Closed.

