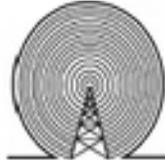


# The Ham Arundel News



Providing Fellowship and Community Service through Amateur Radio Since 1951

January 2017

38<sup>th</sup> Year of Publication



## The Prez Sez...

Greetings ... For those that don't know me, I'm Bruce WR3Q. I'm 63 years old, I've been a ham for 46 years, I've been a member of AARC for 22 years, and I've served as

Secretary, Board of Directors and President.

Let me begin by saying thanks to Brian and his team for doing a great job this past year. A lot of things were accomplished this year. There were a number of non-radio related projects that got completed by a dedicated team of members. We always want to be mindful of the great luxury we enjoy with our own clubhouse. In my 46 years as a ham, I've enjoyed only one other club that had its own clubhouse (K3IVO Ft. Meade).

One of the projects is a complete revamping of the ham shack. The new tables/shelves are installed. This will allow us to have multiple operating positions for the many operating events in which I hope we will participate. The major indoor work is running the new coax cables from the repeater room to the shack. The outdoor work is completing the repair of the tower on the West side and doing a major restructuring of the club antenna system on top of the clubhouse.

There are a few other facility efforts that need to be executed this year ... painting the clubhouse is one of those. It was last done when I was President in 1997 and that was

because DFRC was getting on us about it. There has been nothing from them yet, but it's only a matter of time.

I am going to be reviewing our various committees for relevance/activity. I will be sitting down with the committee chairs to get more details. I have one or two new committees in mind to address the clubhouse and shack operations/maintenance.

Please joins us on January 5<sup>th</sup> when our new Vice-President Rich KB3ZYO does a presentation I'd like to call "Go-Kits are more than just radios". Rich will elaborate on an earlier presentation on Go-Kits, with an emphasis on preparing for environmental, nutritional and power needs.

Again, I'd like to thank Brian and the entire 2016 team for a great job. I was pleased at the Christmas party that he did NOT hand me the proverbial "Bag-o-Snakes".

73

DE WR3Q





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

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

**Editor: Milford Craig / N3WYG**

Send newsletter articles, questions and information to **Milford** at [newsletter@w3vpr.org](mailto:newsletter@w3vpr.org)  
Deadline for submissions – The Saturday after the 3rd Thursday of the month

**Mailing Address:**

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

**Meetings:**

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

**Dues:**

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

**World Wide Web:** [www.w3vpr.org](http://www.w3vpr.org)

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

~~~~~  
**Free Money for AARC!**  
**ARRL Membership Reminder**

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

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

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



## Mark Your Calendars

### REGULAR ACTIVITIES

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

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

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

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

### EVENT SCHEDULE

**04jan17** (Wed) - (on-air) **2-Meter net** every Wednesday night at 8 PM. See details below.

**05jan17** (Thu) - **Club meeting** at 7:30 PM. Tonight: Everything *else* you should have in your go-kit, besides radio gear. Rich/KB3ZY0

**08jan17** The [Mesh Networking Group](#) meets today. (Originally posted as the 15th of this month, my mistake)

**12jan17** (Thu) - Board meeting at 7:30 PM (We have an open meeting policy)

**11jan17** (Wed) - (on-air) **2-Meter net** every Wednesday night at 8 PM. See details below.

**14jan17** (Sat) - (free) **Exams** for your FCC amateur radio license, [every second Saturday of the month.](#)

**18jan17** (Wed) - (on-air) **2-Meter net** every Wednesday night at 8 PM. See details below.

**19jan17** (Thu) - **Club meeting** at 7:30 PM.

**22jan17** (Sun) - Kit-building, troubleshooting and repair 1 to 4 PM Every 4th Sunday at the clubhouse

# Recording Radio Nets and Small Group Meetings

Ed Brown, AA3EB

As a result of steadily advancing age and declining libido, my hearing has gone to pot. Even with hearing aids it sometimes has been difficult for me accurately to record names and/or call signs when acting as Net Control for the AARC Wednesday 2-Meter Net. Also, it sometimes was difficult to write down accurately the topics being discussed while at the same time keeping the net traffic flowing.

After thinking about this situation, I decided to try recording the nets on my desktop and laptop computers using a couple of free/inexpensive computer programs offered by NCH Software - RecordPad Sound Recorder for recording the audio of the net and (later) WavePad Sound Editor for cleaning up and otherwise manipulating the recorded audio. The purpose of recording the net traffic was to enable me, when preparing the Net Report, to identify and correct any mistakes in initially recording names, call signs, and topics.

My laptop has only USB ports for connecting external devices, so my first task was to purchase a microphone with a USB connector. Radio Shack offers two such items and, after perusing both at a local RS store, I selected the cardioid condenser I decided initially to use a USB microphone/headset already on hand (for use with the Rosetta Stone language programs) for the headset. Later, I began using YASEU YH-55 headphones and a couple of adapters to connect the headphones' 1/4" telephone plug to the laptop's USB port.



USB microphone ATR2500-USB offered by Audio-Technica.

Two test recordings of AARC Wednesday 2-Meter nets were made in March 2016 using RecordPad. The ATR2500-USB microphone was set up about 18-24 inches in front of the ICOM SP-10 speaker for my dual-bander radio and was pointed directly at the speaker. I was seated at about the same distance from the mic but at a 135 degrees angle to the right. The recorded files were labeled AARC 2M Net [date]. Each file was about 21 MB in size.

### Initial results were:

1. The microphone picked up the audio (from the SP-10 speaker) fairly well; playback audio of the stations on the net was of adequate volume and clarity although there was too much bass (low-frequency) in the playback.

2. The microphone did not pick up my voice (direct from mouth) well at all; playback volume was low and the audio was bassy and muffled (remember, the ATR-2500 mic is a directional cardioid and I was 135 degrees off-axis).

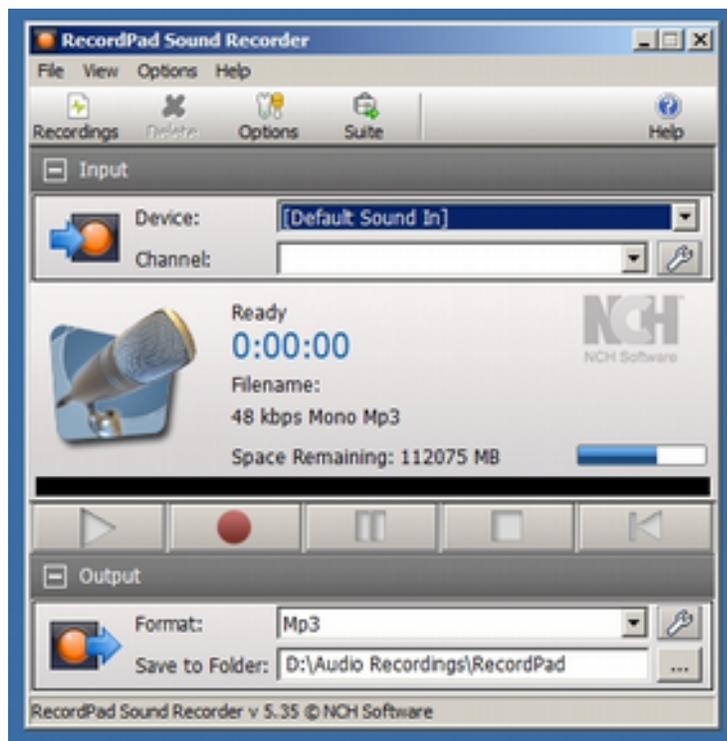
3. RecordPad

worked well for recording the audio; it did not work well in playing it back due to an inability to handle the variance in audio volume. RecordPad also has only a limited ability to modify recorded audio.

A third test recording of the AARC Wednesday 2-Meter Net was made in May 2016. This time I decided to try manipulating the RecordPad recorded audio by using the WavePad program to see if I could improve its intelligibility. The recorded file again was labeled AARC 2M Net [date].

WavePad is capable of applying a number of effects to raw audio recordings to change how it is perceived by the ear. Many of these effects are more suitable for music recordings, such as waw-waw, tremolo, fade in and out, reverb, etc. However, I found four effects that potentially were suitable for voice recordings -- automatic gain control, noise reduction, and high- and low-pass filters. After an audio file is loaded into WavePad and an effect is selected, WavePad applies the effect to the entire file from beginning to end. Note that the application is only to the file as it resides in the computer's memory; it is not applied to the file on disc unless/until the file is saved (or saved as under a new name).

-- Automatic gain control works the same as in ham radio, by reducing the absolute difference between soft and loud recorded audio. One pass usually is sufficient; if not, a second pass may be made





## ARRL Seeks Nominations for Six Awards

The ARRL is inviting nominations for awards that recognize educational and technological pursuits in Amateur Radio. Nominations are also open for the League's premier award to honor a young licensee.

**The Hiram Percy Maxim Award** recognizes a radio amateur and ARRL member under age 21, whose accomplishments and contributions are of the most exemplary nature within the framework of Amateur Radio activities. Nominations for this award need to be made through your ARRL Section Manager, who will then forward the nomination to ARRL Headquarters by March 31, 2017.

**The ARRL Herb S. Brier Instructor of the Year Award** honors an ARRL volunteer Amateur Radio instructor or an ARRL professional classroom teacher who uses creative instructional approaches and reflects the highest values of the Amateur Radio community. The award highlights quality of and commitment to licensing instruction. Nominations are due by March 15, 2017.

**The ARRL Microwave Development Award** pays tribute to a radio amateur or group of radio amateurs who contribute to the development of the Amateur Radio microwave bands. The nomination deadline is March 31, 2017.

**The ARRL Technical Service Award** recognizes a licensed radio amateur or group of radio amateurs who provide Amateur Radio technical assistance or training to others. The nomination deadline is March 31, 2017.

**The ARRL Technical Innovation Award** is granted to a radio amateur or group of radio amateurs who develop and apply new technical ideas or techniques in Amateur Radio. The nomination deadline is March 31, 2017

**The Knight Distinguished Service Award** was established to recognize exceptionally notable contributions by a Section Manager to the health and vitality of the ARRL. The nomination deadline is April 30, 2017.

The ARRL Board of Directors selects all award recipients. Winners are typically announced following the Board's July meeting. [More information](#) about these awards on the ARRL website, or contact [Sean Kutzko](#), KX9X (860-594-0328) at ARRL Headquarters.

Used with permission, The ARRL Letter for Dec. 1, 2016

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## Looking Out for Number One in a Disaster Area

All of us who have had even minimal experience at the scene of any form of disaster, man-made or natural, know just how rapidly things can change in that environment. We have our "go bags" ready for what we believe we will need to get us through the situation/deployment. But have we given any thought about what would happen if, during our deployment, something were to happen to us, both on a minor scale and a larger scale?

For the minor scale issues, I suggest what I call a *personal comfort pack*. This would include items such as pain killers, cough drops, Antacid, lip balm, sun screen, any prescription drugs you may need, a few Band-Aids®, a few

granola or power bars, and anything else you think may make your deployment a little easier and more comfortable for you, such as eye drops if you wear contact lenses.

All of these items can fit into a small pouch: I use a nice weather proof camera case I found in a local thrift store! Many of the items listed can be found in small quantities in the travel section of some stores. These smaller versions are ideal for your kit. Of course your kit doesn't have to be small. If you want more comfort items than can fit into a small pouch you could always go bigger.



The author's medical flash drive. (N8QQN photo)

Popular now in some sporting goods stores are the plastic military style "ammo cans." These would also be a good choice for your personal comfort kit. They are inexpensive, light weight and have a rubber gasket around the lid to give it some degree of water resistance. These "cans" can even hold a bottle of water if you wanted one.

Now that you have taken care of the little things, what can you do to help yourself if something more serious happened to you during your deployment and you were unable to communicate? Most Emergency Medical Technicians are used to looking at a person's wrist or neck for a medic alert bracelet or necklace, so I got a very small brightly colored flash drive and labeled it on both sides, "Mike B. MEDICAL."



Since there are laptops everywhere now, from mobile data terminals (MDT's) in the squad emergency transport vehicles to the desks in the trauma center, you can communicate a great deal of information without being conscious by having it readily available on the little flash drive.

On mine, I have the following: Page one has my name, address, home phone and date of birth. It also lists the names and cell phone numbers of my wife and daughters. At the bottom, in red and in all caps, I have listed no allergies and my blood type. The next few pages list my personal medical history to include the type of medical incident (broken bones, surgeries, etc.) the attending physician's name, the date and location of treatment. After that I have a sheet with a copy of the labels of all prescription medications I am currently on. This gives the hospital the type of medication, dose, and the name of the physician who prescribed it.

Next I have a page that has a copy of all my doctor's business cards, from my family doctor to a specialist, my dentist and even my optometrist. I provide this so that if a trauma center or ER doctor has a specific question, he/she can contact my doctor directly. Lastly I provide a page of family medical history. Depending on what has happened to you, this information could be very important.

You might say, well I have a card in my wallet with my spouse's contact information -- they can just call him/her





applied a systems approach to this project with the goals of developing a go-box that would be capable of HF, VHF, and UHF operation; easily transformed between a portable, mobile/rover, or home operating environment; usable for digital modes, using a sound card device and software where possible; lightweight enough to carry (e.g., through an airport terminal); and small enough for aircraft carry-on (i.e., 22x15x9). It was important for me to maximize the capabilities of my station while minimizing the weight and ensuring simplicity. The main focus was on packaging the three basic components of a station: transceiver, antenna tuner, and sound card interface. At the same time, a decision was made not to include a power supply, but rather rely on various power options that were particular to the environment I would be operating in, thus saving on total weight. There are a number of HF/VHF/UHF radios on the market that offer multi-mode capabilities. Add to that a wide variety of sound card interfaces, a computer, and lastly, a general-purpose antenna tuner and you have the beginnings of a highly versatile station. As a concept shown in Figure 1, the commonly-used components could be packaged and pre-wired together in the go-box. Depending on the chosen operating environment, the user may substitute various accessories and antenna(s) as needed. Note: For safety and convenience, especially in a mobile environment, I recommend using a radio that has remote-head capabilities.

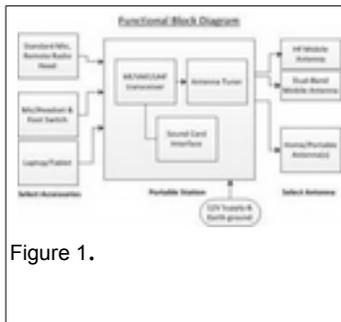


Figure 1.

After some trial and error, I selected the MTM Case-Gard's sportsman utility dry (SPUD) box, specifically, the [SPUD-2](#) model, as it has a comfortable carrying handle and provides enough depth, strength, and support needed to handle the weight of the radio gear.

The components I selected for this go-box were the [Icom IC-706 Mark IIG](#) transceiver, the [LDG Z-100 Plus](#) autotuner with the radio interface cable, as well as the [Tigertronics Signalink USB](#) sound card interface, as seen in Figure 2. A small [Anderson Powerpole](#) junction box simplifies wiring. The total weight of this packaged solution is less than 17 pounds.



Figure 2

### Operating Environments

Below are typical operating environments and special uses where you can safely and effectively operate the station. You should consider how many of these environments apply to your particular needs before designing your own packaged solution.

|                     |                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------|
| <b>Home station</b> | A fully featured system that can be used with a power supply, an antenna, and power for the computer. |
|---------------------|-------------------------------------------------------------------------------------------------------|

|                           |                                                                                                                                                                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mobile</b>             | A limited set of functions on HF/VHF/UHF with a remote head for driver safety and convenience.                                                                                                                                                   |
| <b>Contesting Station</b> | Add a headset and foot switch, and laptop computer, and it is ready for contest logging, DX Spotting, and digital sound card modes. The sound card interface can also act as a digital voice-keyer, saving you from calling CQ for hours on end. |
| <b>Emergency Station</b>  | Perfect for quick setup, a quick-deploy NVIS antenna, and VHF vertical antenna for operating HF, VHF, or the popular e-mail over radio software such as <a href="#">Winlink Express</a> .                                                        |
| <b>Boating</b>            | Since many of the sensitive components are packaged securely, it is possible to operate this in a marine environment as well-consider harsh environments when designing your go-box.                                                             |

### Additional Benefits of a Good Design:

- Security of being able to easily remove the go-box from a vehicle when not in use
- Quickly adaptable among various operating environments
- Allows hams to only need one radio that serves multiple purposes

### Design Considerations

| Topic                         | Best Practice                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Component Monitoring</b>   | Bolts/nuts are best for installation, but Velcro should be sufficient for smaller components. Another option is to tie wrap components on to sanded plywood for good results. Mount radio on lower portion of box, using rubber feet to raise angle of radio for less strain when using controls. Put less-used materials on the top shelf. When mounting SO-239 connectors through the case, use star washers to keep the connectors in place. |
| <b>Additional Accessories</b> | As a convenience, add an external speaker, volt meter, USB port to charge small devices, and a dual-band <a href="#">DB-J2</a> roll-up antenna.                                                                                                                                                                                                                                                                                                 |
| <b>Documentation</b>          | Consider adding a manual or <a href="#">guide</a> for your radio or create your own document for nontraditional (set and forget) settings (i.e., port speed for radio to computer communications, operating various digital modes software, and preferred audio settings for each). Print the document on laminated paper to fit neatly into the go-box.                                                                                        |
| <b>Labeling</b>               | Don't forget to label all connectors. Also, print labels with your name and call sign inside the box and cover.                                                                                                                                                                                                                                                                                                                                 |



and APRS. *RFinder* is integrated with RT Systems and CHIRP radio programming applications and has a [routing feature](#) that lets users find repeaters worldwide over a given route. Video [demos](#) of *RFinder* features are available on YouTube.

*RFinder* also includes the ability to report radio jamming anywhere. Those without a device or subscription can [file reports](#) online. Those responsible for coordinating anti-jamming activities also can [request access](#) to view jamming reports for their area.



ARRL previously discontinued its own products that supported digital listings of repeater data including the *TravelPlus for Repeaters* software and its own apps.

*RFinder* is \$9.99 per year. [Subscribe](#) to *RFinder* from your iPhone, iPad, iPod Touch, or from your Android smartphone or tablet.

*RFinder* recently collaborated with the BrandMeister network of Amateur Radio digital voice systems to include a daily data feed of digital repeaters. Digital repeaters are now categorized in *RFinder* by network, and *RFinder*'s Android and iOS apps can provide information on BrandMeister networked repeaters worldwide. The daily data feed from BrandMeister includes both repeaters and talk groups.

*RFinder* also now supports automated repeater coverage maps for the newly released BrandMeister [dashboard](#), active once repeaters sysops enter their repeater information on BrandMeister. *RFinder* generates its coverage maps using CloudRF technology, developed by Alex Farrant, M6ZUJ.

*Used with permission, The ARRL Letter, Nov. 17, 2016*

## Hamvention® Countdown: With 6 Months to Go, Plans Proceed Apace at New Venue

With just 6 months to go until [Hamvention](#)® debuts at its new [Greene County Fairgrounds and Event Center](#) venue in Xenia, Ohio, May 19-21, General Chair Ron Cramer, KD8ENJ, and Dayton Amateur Radio Association (DARA) Board Member Mike Kalter, W8CI, assure that all is progressing smoothly. Cramer and Kalter made another appearance this week on [Amateur Radio Roundtable](#), hosted by Tom Medlin, W5KUB, to update progress on preparations for the all-



An aerial view of the Greene County Fairgrounds and Event Center in Xenia, Ohio, the new Hamvention venue. [Photo courtesy of DX Engineering and Greg Ord, W8WWV]

new Hamvention. Cramer and Kalter said they continue to be bombarded with questions, concerns, and rumors regarding how the event will be staged.

"You have to remember, we're starting from the ground up," Cramer said. "So it's taken a while to get things going." He asked for patience from prospective visitors, but he and Kalter told Medlin that the vast all-volunteer team has everything well in hand, and that plans are coming together. Both maintained that those attending Hamvention 2017 "will be very impressed."

Cramer predicted parking would not be an issue, and that there would be plenty of room for the anticipated number of vehicles, with overflow parking available and transportation to the buildings housing the vendors and events from the parking areas, as needed.

Traffic and transportation logistics are being addressed, Cramer said, and Hamvention is working with four police departments as well as a professional traffic planner to ensure that all goes smoothly.

Cramer said Hamvention 2017 tickets will become available starting in December -- a bit earlier than in past years. The cost of admission will rise by \$2 from the 2016 price of \$20 for advanced tickets, and \$25 for those purchased at the gate. But, he pointed out, there will be no parking charges on site.

The Hamvention website is yet to be updated to reflect the 2017 event, but Cramer and Kalter said that both indoor and outdoor layout maps will be made available online in advance of the show, and these will be included in the Hamvention program as well.

Hamvention announced in August that it would be relocating to Xenia, following the closure of Hara Arena, where the show took place for more than 50 years.

The *Amateur Radio Roundtable* show included a *DX Engineering*-produced [video](#) taken from a drone operated by Greg Ord, W8WWV, and narrated by *DX Engineering's* Tim Duffy, K3LR.

*Used with permission, ARRL Letter, Nov 17, 2016*

## ARRL Transitioning to New Digital Publishing Platform

ARRL is moving to a new digital publishing platform! The January 2017 digital edition of *QST* will be the first produced using *PageSuite*. ARRL Publications Manager Steve Ford, WB8IMY, said the transition from the current *Nxtbook* platform to *PageSuite* not only will improve members' reading experience, it will be more convenient.

"*PageSuite* provides a sleek, modern design that runs on desktop browsers, mobile browsers, and within apps for mobile devices," Ford said. "*PageSuite* does not require *Flash* but uses *HTML5* instead. This alleviates many security concerns and makes the magazine more broadly compatible."



Hamvention Chair Ron Cramer, KD8ENJ (left), and DARA Board member Mike Kalter, W8CI, on *Amateur Radio Roundtable*. [Photo courtesy of *Amateur Radio Roundtable*]



New QST issues, beginning with the January 2017 edition, will take up less space on mobile devices, speeding up download time. Added features include digital bookmarks to save a page and pick up right where you left off, and a clipping tool to save or share important passages as JPEG files. Video files will be hosted on YouTube in high resolution.

The new application is compatible with Android devices, iOS devices -- including iPhones, iPod touches, and iPads -- and will be newly available to Kindle Fire. These apps will receive regular, quick updates in order to keep the application running smoothly.

Ford said the link to the digital edition of the monthly journal will remain in the same spot on the QST website, and members will continue to be notified of its release via e-mail.



A sample of the digital edition of QST produced using the PageSuite platform.

ARRL has compiled a "how-to" guide to help members navigate PageSuite, which

will be available on the [QST web page](#) on the day the January digital edition is announced. The announcement concerning the availability of the January issue of QST in the new desktop/laptop version, the how-to guide, and the new digital QST apps, will be forthcoming.

Members can use the online digital QST [feedback form](#) to comment on the new platform when it is available. To ease the transition, Nxtbook applications will continue to function on iOS and Android devices until January 1.

Used with permission, The ARRL Letter for Dec. 8, 2016

## Amateur Radio Parity Act Bill Unable to Overcome Florida Senator's Objections

The Amateur Radio Parity Act, H.R. 1301, suffered an unbecoming demise on December 9 as the 114th Congress drew to a close. After passing the House of Representatives on a unanimous vote earlier this fall, the bill stalled in the Senate due to the intervention of only one member, Sen. Bill Nelson (D-FL). The measure would have directed the FCC to extend its rules relating to



reasonable accommodation of Amateur Service communications to private land-use restrictions, such as covenants, conditions, and restrictions (CC&Rs) imposed by homeowners associations.

[During 2016] Nelson received thousands of e-

mails, letters, and phone calls from concerned constituents asking for his support of H.R. 1301. Numerous meetings were held with his senior staff in an effort to move the legislation forward," ARRL said in a [news release](#). "Negotiations, which led to an agreement with the Community Associations Institute (CAI), the national association of homeowner's associations and publicly supported by CAI and ARRL, were brushed aside by Sen. Nelson as irrelevant."

In a final meeting with Nelson's staff as the 114th Congress neared adjournment, it became clear that no matter what was said or done, the Senator would oppose the bill and refuse to allow it to move forward. Because the measure had not been put on the floor schedule, the only way it could have passed the Senate would have been through a process called "unanimous consent." A Senate member may request unanimous consent on the floor to set aside rules and expedite proceedings. If any single Senator objects, though, the request is rejected.

The unhappy ending followed nearly 2 years of intense effort on the part of ARRL and thousands of its members, who contacted their Congressional representatives to urge their support of the measure on Capitol Hill. The ARRL Board of Directors is expected to discuss the future of the initiative at its January meeting.

Used with permission, The ARRL Letter for Dec. 15, 2016

## ISS Packet Digipeater is Now on 70 Centimeters

The Amateur Radio on the International Space Station (ARISS) packet digipeater aboard the ISS now is active on 437.550 MHz. The UHF frequency means users will have to make adjustments for Doppler on both uplink and downlink. The change to 70 centimeters comes in the wake of a problem that has sidelined the Ericsson VHF transceiver, so the UHF model has been put into service.



The digipeater operates just as it did when it was on its former 145.825 MHz frequency. AMSAT suggests that users program a group of five memory pairs to permit an operating range that will compensate for Doppler, with transmit frequencies from 437.560 to 437.540 MHz, and receive frequencies from 437.540 to 437.560 MHz, in 5 kHz increments (i.e., the transceiver would be in simplex for 437.555 MHz). [More information](#) is available from the AMSAT website. Scheduled ARISS contacts and APRS operations will also utilize the Ericsson UHF transceiver in the Columbia module. -- Thanks to AMSAT News Service

Used with permission, The ARRL Letter for Dec. 8, 2016

This correction edition of the January 2017 Ham Arundel News contains the entire article by Mr. Ed Brown, AA3EB.

# The Radio Amateur Operator is...

## **CONSIDERATE**

...He/[She] never knowingly operates in such a way as to lessen the pleasure of others.

## **LOYAL**

...He/[She] offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his/[her] country, through which Amateur Radio in his/[her] country is represented nationally and internationally.

## **PROGRESSIVE**

...He/[She] keeps his/[her] station up to date. It is well-built and efficient. His/[Her] operating practice is above reproach.

## **FRIENDLY**

...He/[She] operates slowly and patiently when requested; offers friendly advice and counsel to beginners; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

## **BALANCED**

...Radio is a hobby, never interfering with duties owed to family, job, school or community.

## **PATRIOTIC**

...His/[Her] station and skills are always ready for service to country and community.

## REPEATER FREQUENCIES

|                      |                     |                    |                  |
|----------------------|---------------------|--------------------|------------------|
| <b>Davidsonville</b> | <b>Millersville</b> | <b>Glen Burnie</b> | <b>Annapolis</b> |
| <b>147.105+</b>      |                     | <b>147.075+</b>    |                  |
| <b>223.880-</b>      | <b>224.560-</b>     |                    |                  |
| <b>444.400+</b>      |                     |                    | <b>442.300+</b>  |

**PL: 107.2 for all repeaters**

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

*Visitors are welcome to all meetings and nets.*

*Meetings are held in the Clubhouse at the  
**Davidsonville Family Recreation Center,**  
 Queen Anne Bridge and Wayson Roads off  
 MD Route 214 near Davidsonville, MD.*

*For en-route directions, make initial contact on the 147.105 repeater.*

**Copyright © 2011 Anne Arundel Radio Club**



### Wednesday Night Talk Net -- All are welcome

8PM, On the AARC Repeater 147.105

#### Other Amateur Radio nets

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