

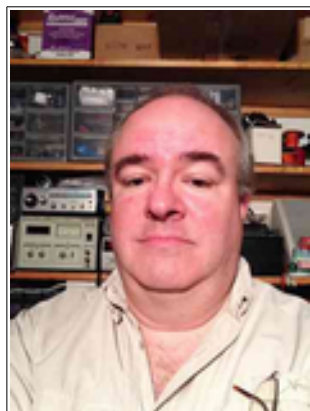
The Ham Arundel News



Providing Fellowship and Community Service through Amateur Radio Since 1951

October 2016

38th Year of Publication



The Prez Sez...

Greetings from not so sunny New Jersey! Seems like I've spent most of September up here for work, with the intervening time spent getting ready for the next trip! The first trip caused me to have to reschedule my presentation, hopefully Wayne can fit me in during one of the October meetings. As you may recall, I gave a presentation last year on radio-controlled demolition devices used by the Army and Navy. Any day you get to blow something up is a good day. My next presentation will be about how you piece things together when something goes wrong. In addition, we'll look at how you analyze potential failures in a system. I do this routinely for explosive devices, but you can use the same techniques for any system – from a single radio to a multi-op shack to a statewide mesh system. There are methodical ways to look at how things can fail and how they influence other parts of the system and these techniques can really help highlight weaknesses. Often they might be weaknesses you weren't aware of, and you might find a particular one that can affect multiple other parts of the system as well.

Our nominating committee is on the prowl! Chuck Tanner, Jim Goldsberry, Ike Lawton, and Keith Miller will be pressing the flesh and twisting the arms to encourage you to run for office in our upcoming election. As per the bylaws, the committee will present a slate to the Board by the last Thursday in October. The Board will then present this slate at the first meeting in November at which time we'll accept last-minute nominations from the floor. The slate will be

published in the November newsletter, which we'll hold up until after that meeting. You will be casting your votes at the first meeting in December.

As I mentioned last month, please consider running for an office. We've had a couple of folks throw their names in the hat, but we need at least a couple more. We will have four vacancies on the Board and we need some of you to step up and put in that little bit extra to insure the club runs smoothly. It's only one more meeting per month and a bit of your time and enthusiasm. I know that any of you could handle this, so please consider contacting any of our nominating committee members and let them know how you would like to serve.

While we're on the subject, a big thanks to Chuck, Jim, Ike, and Keith for VOLUNTEERING to be on our nominating committee this year. It's a vital part of our election process. Again, thank you gentlemen for putting forth that extra effort to help insure we have a full slate for December.

It's been a long day of safety review meetings here in New Jersey, so I'll end things here for now. Hope you all are staying dry during this rainy week, and I'll see you at the clubhouse in October!



We are still looking for a few more volunteers for the run for the light house event this coming Sunday 9/25 from 0600 to around 1200. Any help would be much appreciated!

Please contact Bennett Palmer/KC3COD.

Anne Arundel Radio Club Member's News

Update on Les Silva

Les came home August 19, 2017. It is so good to be home for both of us for so many reasons, but for me, that drive of 1 1/2 hours each way daily was surely getting old and leaving very little time to attend to things at home.

Les is able to use the walker around the house with supervision. His balance and coordination are still in need of improvement and he's a risk for falls, but actually is doing well. He has a wheelchair which he sits in for computer checking and to get around the house without supervision. I still don't leave him home alone without a "sitter" friend or two as he's never been known to take direction, so staying put till I get home is a "suggestion" as opposed to a rule. His speech is much improved but still slow. But he can be understood and you can call him on the phone if you like (preferably in early evenings our time (5 hour difference from Hawaii)). We are busy most days with trips to the doctor (2 next week) and Physical therapy, Occupational therapy, and speech therapy in the home 2 days week for each therapy, as well as RN visits in the home 2 days/wk. He's on blood thinners so has to have blood drawn at home for that. He can swallow OK now so is on regular diet. His friends are going to take him to lunch next Wednesday so he is really looking forward to that! One of his friends even came to the rehab hospital to be trained on getting him in/out of the car.

His spirits are good and his personality/humor have returned to his normal rascal self!

Prognosis for continued improvement are good, but there is no way to predict what that means. We are looking into making some alterations to bathrooms, esp to shower upstairs when he is able to get up there. For now it's sponge baths downstairs which he does not like. More doctor appointments next week along with in-home therapies and RN. But at least we (that is, me) are not bored. I think Les is very bored actually. He's so used to doing so many things. If it would cool off here (weather temps 90's and very high humidity) I would take him out for drive and errands. Looking forward to fall.

That's it for now. Thank you, everyone, for all the prayers and emails and cards. I am sorry for not responding to everyone, but please know we are both very grateful.

With love,
Mary Ann

AA

Did You Know? - 2

By AA3RR

The Radio Act of 1912 was passed on August 13, 1912 and contained 19 "rules". In my opinion, the "highlights" of these rules were. As you can see, most of these initial rules are still contained in our current rules:

Rule #6 - The distress call used shall be the international signal of distress ...---... [SOS for those who may be CW challenged]

Rule #9 - All stations are required to give absolute priority to signals and radiograms relating to ships in distress; to cease all sending on hearing a distress signal; and, except when engaged in answering or aiding the ship in distress, to refrain from sending until all signals and radiograms relating thereto are completed.

Rule #14 - In all circumstances, except in case of signals or radiograms relating to vessels in distress, all stations shall use the minimum amount of energy necessary to carry out any communication desired.

Rule #15 - No private [e.g., Amateur] or commercial station not engaged in the transaction of bona fide commercial business by radio communication or in experimentation in connection with the development and manufacture of radio apparatus for commercial purposes shall use a transmitting wave length exceeding two hundred meters, or a transformer input exceeding one kilowatt, except by special authority of the Secretary of Commerce and Labor contained in the license of that station.

Rule #19 - No person or persons engaged in or having knowledge of the operation of any station or stations, shall divulge or publish the contents of any messages transmitted or received by such station, except to the person or persons to whom the same may be directed, or their authorized agent, or to another station employed to forward such message to its destination, unless legally required so to do by the court of competent jurisdiction or other competent authority.

Department of Commerce and Labor, Bureau of Navigation published the September 28, 1912 edition of Regulations Governing Radio Communication. <http://earlyradiohistory.us/1912reg.htm> The highlights of those regulations are highlighted below:

- Nine districts were created for the purpose of enforcing through radio inspectors the acts relating to radio communication and the International Convention. These districts supersede those announced in Department Circular No. 241, of September 5, 1912.
- The license provides that the holder shall take the oath for the preservation of the secrecy of messages before a notary public or officer authorized to administer oaths.
- General amateur stations are restricted to a transmitting wave length not exceeding 200 meters and a transformer input not exceeding 1 kilowatt. (Sec. 4, Fifteenth Regulation.)

Cystic Fibrosis Cycle (CFC) for Life Bike Ride

This is an opportunity to provide communications support to the Cystic Fibrosis Cycle (CFC) for Life Bike Ride on Saturday, October 22, 2015 at Harrington Harbor South. Harrington Harbor South is located at: 668 Friendship Road, North Beach, Maryland 20714.

The ride as described by the CFC Committee describes the "ride through the most scenic terrain along Maryland's treasured Chesapeake Bay. CF Cycle for Life features well-stocked rest stops every 10-12 miles, bike mechanics along the route support vehicles, great food and entertainment."

There will be three routes: a 15, 30, and a 65 mile route. This is not a race but a ride.

This is the CF Cycle for Life web site:

http://fightcf.cff.org/site/TR/Cycle/154_Maryland_Baltimore?fr_id=5391&pg=entry

We plan to have operators at the start/finish, rests stops, support vehicles, key intersections, and on support vehicles. Ideally, I would like to have 13 operators as a minimum.

This event is being coordinated by the Calvert Amateur Radio Association (CARA). Last year and hopefully this year we augmented the CARA with the Anne Arundel Radio Club (AARC) and the Maryland Mobileers Amateur Radio Club (MMARC) operators. This is truly a joint operation and a perfect opportunity to meet Amateur Radio Operators from other clubs in the area.

If you are interested in operating at this event, please send an Email to: kh6cuj@aol.com.

Aloha,

Les Silva

KH6CUJ

CARA Public Service Coordinator

AA

MDC SECTION-WIDE ECHOLINK NET ON THE THIRD FRIDAY OF EACH MONTH

Maryland DC section-wide EchoLink net is held on the third Friday of each month at 8:00 PM on the EchoLink *WASH_DC* Node 6154.

If you would like to join in on RF, the following repeaters and IRLPs have linked in for previous EchoLink nets:

- KA2JAI-R operates through the KB3CMA repeater 442.300(+), CTCSS 107.2 Hz, in Annapolis, MD
- WB3GXW-R, 147.225(+), CTCSS 156.7 Hz, located in Calverton, MD
- N3HF-L, 443.45(+), CTCSS 151.4 Hz, located near Ocean City, MD
- N3HF-R, 443.45(+), CTCSS 156.7 Hz, located near Silver Spring, MD
- W3ICF-R, 146.73(-), CTCSS 141.3 Hz, located near Frederick, MD

- K3CAL-R, 146.985(-), CTCSS 156.7, located near Sunderland, MD
- W3SMR, 147.150 MHz (+), CTCSS 114.8 Hz, Brandywine, MD
- N3RO-L, 145.545, Simplex, Frederick Co, MD
- W3SMD-L, 147.51 Simplex, N. St Mary's County, MD
- K3GMR-R 146.61 (-), No CTCSS, Cheverly, MD

Everyone is encouraged to join in and give any updates on what is going on in your part of the ARRL Maryland-DC Section.

If you do not have EchoLink on your Computer, Tablet or Smartphone, you may download the free software from: http://echolink.org/register_data.jsp or your App Store online.

As always, we thank John Creel, WB3GXW, for making the *WASH_DC* EchoLink server and his WB3GXW-R repeater available for the EchoLink nets.

Used with permission of the MDC Section News, Sept 15, 2016
AA

It's Midnight, Monitoring 406 MHZ

On 28 September 2016 at 0402 UTC (12:02 am local Time) the COSPAS-SARSAT system detected a 406 MHz EPIRB at 52 37.30N 158 23.30W, approximately 200 NM south of Cold Bay, AK.

A Hawaiian HAM radio operator heard a MAYDAY from the 35-foot sailing vessel RAFIKI and called it in to Coast Guard District 14 (CGD14).

CGC14 relayed the information to Coast Guard District 17 (CGD17). CGD17 made contact with the vessel owner, who stated he was taking on water. They requested he manually activate his EPIRB, then issued an Urgent Marine Information Broadcast and contacted AMVER vessel RISING SUN, which was the closest ship (approximately 85 NM away) to the RAFIKI.

CGD17 launched a C-130 and a helicopter and attempted to drop survival suits onto the RAFIKI. The first attempt was unsuccessful and the helicopter returned to base. A second helicopter was launched and dropped survival suits to the 2 persons on board before hoisting and transporting them to USCG Station Sand Point.

The RAFIKI's owner sustained a head injury, which required further transport to a medical facility in Kodiak, AK.

The International Cospas-Sarsat Programme is a satellite-based search and rescue (SAR) distress alert detection and information distribution system, best known for detecting and locating emergency beacons activated by aircraft, ships and backcountry hikers in distress.

An **Emergency Position Indicating Radio Beacon** or **EPIRB** is used to alert search and rescue services in the event of an emergency. It does this by transmitting a coded message on the 406 MHz distress frequency via satellite and earth stations to the nearest rescue co-ordination centre.

Repeaters and Nets

2 Meter Repeaters

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

1.25 Meter Repeaters

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

70cm Repeaters

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

Packet Stations

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

Amateur Radio nets

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

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

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

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

Editor: Milford Craig / N3WYG

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

Mailing Address:

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

Meetings:

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

Dues:

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

World Wide Web: www.w3vpr.org

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

AA

Free Money for AARC!
ARRL Membership Reminder

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

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

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



Mark Your Calendars

REGULAR ACTIVITIES

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

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

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

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

EVENT SCHEDULE

- 06oct16 (Thu) - **Club meeting** at 7:30 PM.
- 08oct16 (Sat) - (free) **Exams** for your FCC amateur radio license, [every second Saturday of the month.](#)
- 09oct16 The [Mesh Networking Group](#) meets today.
- 13oct16 (Thu) - Board meeting at 7:30 PM (We have an open meeting policy)
- 20oct16 (Thu) - **Club meeting** at 7:30 PM.

NOTICE:

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

Around the ARRL

J O T A Is Coming

Jamboree on the Air (JOTA) Stations Encouraged to Register and File Post-Event Reports

Scouting's Jamboree on the Air (JOTA) officials are asking JOTA 2016 participants not only to [register](#) for this year's event, but to follow up with a post-JOTA report. As an incentive, all stations filing reports will automatically be entered to win an Icom ID-51A handheld transceiver. The 59th annual JOTA takes place October 14-16.



"Last year we had 400 stations register but only 200 stations file a report," said JOTA Coordinator Jim Wilson, K5ND. "We're going to improve that this year. Icom America and Ray Novak, N9JA, have stepped up to help us with a considerable incentive."

Wilson pointed out that only BSA stations will be eligible to win. "These prizes are for the station. It's up to you to determine who gets it or how you share it," he said. "Of course, everyone who files a report will receive the 2016 Jamboree on the Air Certificate."

More than 1 million Scouts in 150+ countries -- at nearly 18,000 stations -- are expected to take part in JOTA 2016, engaging with other Scouts to talk about



Amateur Radio and their Scouting experiences. "JOTA is about conversations across town and around the world, rather than about contacts," Wilson said.

The JOTA reporting system will open right after JOTA weekend; reports are due on November 1, with the prize drawing held that week. "Designate someone on your team to collect the information needed for your report," Wilson recommended, pointing to a list of ["best practices"](#) to ensure a report that "truly captures your event."

JOTA [Guidelines for Amateur Radio Operators](#) are available online. Among other advice, the operating guide points out that US Scouts may speak directly with Scouts in other countries as long as a [third-party agreement](#) exists between that country and the US. A [Scout station spotting cluster](#) will also be available this year, to show who's on the air and where. Dave Edwards, KD2E, and Andy O'Brien, K3UK, have developed a [Scout scheduling page](#) for teams to post their frequencies.

JOTA stations have been asked to avoid other operating activities taking place over the October 14-16 weekend, including the [Worked All Germany](#) Contest. Four state QSO parties are also taking place over JOTA weekend -- Illinois, Iowa, New York, and South Dakota. Wilson also asked for the cooperation of contesters.

"As you participate in these or other contests that

weekend, please keep in mind that Scouts will be on the air at the same time," Wilson advised competitors. "For most, this will be their first experience with Amateur Radio. Please be courteous and, where possible, provide some contest-free space around their ongoing QSOs near the Scouting frequencies. After all, they are the next generation of ham operators -- or not."

Used with permission the ARRL Letter Sept 1, 2016

AA

Ham Radio Outlet Refurbishes, Reopens Former AES Milwaukee Location

Ham Radio Outlet ([HRO](#)) opened its latest Amateur Radio retail outlet at the site of the former Amateur Electronic Supply (AES) headquarters store at 5710 West Good Hope Road in Milwaukee on August 27. AES closed its Milwaukee, Las Vegas, Cleveland, and Orlando outlets on July 28, following a surprise announcement 4 weeks earlier that it was going out of business after 59 years as a ham radio equipment supplier. A couple of weeks later, HRO announced plans to make over the Milwaukee outlet and reopen it as its latest "super store" -- now HRO's largest. Several former AES Milwaukee employees are now working for HRO, which undertook a rapid remodeling project to make the store over in its own brand. Dan Vanevenhoven, N9LVS, visited the HRO Milwaukee location on opening day, camera in hand, and he [posted](#) video of his brief tour on YouTube.



"One of the first things that caught my eye was the radio demo area," Vanevenhoven says in his video. "They've actually got radios that you can try out." A row of eight carrels, each with a different piece of gear ready to use, stretches along part of one wall in the store.



The new HRO Milwaukee outlet offers opportunities to test drive gear before buying.

The Milwaukee store is 5000 square feet of Amateur Radio equipment, antennas, books, and accessories.

A family-owned business, HRO is the world's largest Amateur Radio dealership, with 14 locations from New England to the West Coast. It opened a new outlet in Plano, Texas, in early 2015 and relocated and expanded its Portland, Oregon, store, which opened in late July.

HRO has planned the weekends of September 10, 17, 24 and October 1 for the grand opening of its Portland store, and October 1, 8, 15, and 22 for the grand opening of the new Milwaukee outlet.

Used with permission the ARRL Letter, Sept 1, 2016

AT&T's New "AirGig" Not Your Father's BPL

Recalling the earlier efforts of the FCC and telecommunications and utility interests to roll out "Broadband over Powerline" ([BPL](#)), the Amateur Radio community has been buzzing with questions about AT&T's just-announced "[AirGig](#)" BPL plan to make broadband available via apparently similar technology. ARRL's earlier anti-BPL campaign, and market forces, eventually led to the demise of the prior BPL initiative. ARRL Laboratory Manager Ed Hare, W1RFI, who spearheaded the earlier effort to quantify BPL's threat to Amateur Radio's HF spectrum and remains the resident expert on the subject, said this newest BPL incarnation should *not* pose an interference issue for radio amateurs.

"This technology uses millimeter-wave RF signals (30 GHz to 300 GHz) coupled onto the surface of power lines to transmit the signal along the line with relatively low losses," Hare explained. "After looking at this technology, it looks nothing like the type of HF and VHF BPL that caused us so many problems years ago. The sky is not falling."



Hare added that it is not likely that the AT&T technology will even use Amateur Radio bands, so there is little reason for concern even among those amateurs who use spectrum above 24 GHz.

According to AT&T's September 20 announcement, the company is "deep in the experimentation phase" of the developing technology, which it says would be "easier to deploy than fiber, can run over license-free spectrum, and can deliver ultra-fast wireless connectivity to any home or handheld wireless device." AT&T said its initial — and continuing — testing at AT&T outdoor facilities "has been positive," and initial field trials are set to begin in 2017.

Hare said the technique of putting RF signals onto the surface of conductors is not new. An [article](#) by Glenn Elmore, N6GN, and John Watrous, K6PZB, appeared in the May/June issue of *QEX*, describing the technique. In January 1953, the *Proceedings of the IRE* featured an article by C. E. Sharp and G. Goubau, "A UHF Surface-Wave Transmission Line," and the *Radio Amateurs VHF Manual 11th edition* introduced the technique to amateurs in 1968.

Hare said the League will keep an eye and ear out for interference problems, but he believes that the frequencies involved and the fact that these signals should not propagate far from the lines will pose little risk the Amateur Radio Service.

"So far, industry has not found a way to reliably put broadband signals on wires intended to carry power frequencies," he said. "The technical difficulties of trying to use wiring not designed to carry RF signals [and] connected to all sorts of noisy loads, other conductors and even splices that are major discontinuities at these

frequencies will probably prove to be quite the technical challenge. ARRL is interested in seeing all technology succeed, but its vested interest is in the interference potential of new technologies. Fortunately, in this case, there is little likelihood of interference."

Used with permission, The ARRL Letter Sept. 22, 2016

AA

The Doctor Will See You Now!

"Coping with the Solar Minimum" is the topic of the latest (September 22) episode of the "[ARRL The Doctor is In](#)" podcast. Listen...and learn!

Sponsored by [DX Engineering](#), "ARRL The Doctor is In" is an informative discussion of all things technical.

Listen on your computer, tablet, or smartphone -- whenever and wherever you like!



Every 2 weeks, your host, QST Editor in Chief Steve Ford, WB8IMY, and the Doctor himself, Joel Hallas, W1ZR, will discuss a broad range of technical topics. You can also e-mail your questions to doctor@arrl.org, and the Doctor may answer them in a future podcast.

Enjoy "ARRL The Doctor is In" on [Apple iTunes](#), or by using your iPhone or iPad podcast app (just search for "ARRL The Doctor is In"). You can also listen online at [Blubrry](#), or at [Stitcher](#) (free registration required, or browse the site as a guest) and through the free Stitcher app for iOS, Kindle, or Android devices.

If you've never listened to a podcast before, download our [beginner's guide](#).

Used with permission, The ARRL Letter, Sept 22, 2016

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FCC Updates Notice on Amateur Radio Operation in CEPT Countries

The FCC has updated its [Public Notice](#) on Amateur Radio operation in European Conference of Postal and Telecommunications Administrations ([CEPT](#)) countries that have adopted certain recommendations regarding the US. The updated notice, in English, German, and French, includes some additional countries where operation is permitted. Licensees operating in CEPT countries must have a copy of the *Public Notice*, proof of



US citizenship, and evidence of an FCC Amateur Radio license grant. These must be shown to "proper authorities" upon request.

Subject to regulations in force in the country visited, a US citizen holding an FCC General, Advanced, or Amateur Extra Class Amateur Radio license grant "is authorized to utilize temporarily an Amateur Station in a [CEPT] country that has implemented certain recommendations with respect to the United States,"

according to the notice.

Advanced or Amateur Extra class operators are granted CEPT Radio Amateur License privileges, in accordance with CEPT [Recommendation T/R 61-01](#) (as amended). General class operators are granted CEPT Novice Radio Amateur License privileges, in accordance with ECC [Recommendation \(05\)06](#) (as amended).

CEPT countries participating in CEPT [Recommendation T/R 61-01](#) as of September 16, 2016, are Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark (including Greenland, and the Faroe Islands), Estonia, Finland, France (including Corsica, Guadeloupe, French Guyana, Martinique, St Bartholomew, St Pierre and Miquelon, St Martin, Reunion and its Dependencies, Mayotte, French Antarctica, French Polynesia and Clipperton, New Caledonia, and Wallis and Futuna), Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Moldova, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, and the United Kingdom (including Great Britain, Northern Ireland, the Channel Islands, and the Isle of Man).

CEPT countries participating in ECC [Recommendation \(05\)06](#) as of September 16, 2016 are Austria, Belgium, Belarus, Bosnia and Herzegovina, Croatia, Czech Republic, Denmark (including Greenland, and the Faroe Islands), Finland, Germany, Hungary, Iceland, Liechtenstein, Lithuania, Luxembourg, Moldova, Netherlands, Poland, Portugal, Romania, Russian Federation, Slovak Republic, Slovenia, and Switzerland.

Information regarding countries participating in CEPT [Recommendation T/R 61-01](#) and [Recommendation \(05\)06](#) after September 16, 2016 is available from the European Communications Office ([ECO](#)).

The [Public Notice](#) includes complete details. For more information, contact [Scot Stone](#), FCC Wireless Telecommunications Bureau, (202) 418-0638.

Used with permission, The ARRL Letter, Sept 22, 2016

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Amateur Radio-Military Interoperability Exercise Set for October 31-November 1

An Amateur Radio-military interoperability exercise will take place October 31-November 1. The event will begin at 1200 UTC on October 31 and continue through 2359 UTC on November 1 on 60 meter channels 1-4 --5.3305 MHz, 5.3465 MHz, 5.357 MHz, and 5.3715 MHz, respectively. During this exercise, military stations will attempt to make radio contact with stations in as many of the 3077 US counties as possible. Radio amateurs providing "county status" information will receive a US Department of Defense "interoperability QSL card." For more information, [contact](#) the Military Auxiliary Radio Service (MARS).



ARRL November Sweepstakes Operating Period is 30 Hours

The 2016 [ARRL November Sweepstakes](#) announcement that appears on page 94 of the October 2016 issue of QST incorrectly indicates the period of the event. The ARRL November Sweepstakes runs for 30 hours, and participants may operate for 24 out of the 30 hours. The CW event is November 5-7; the phone event is November 19-21.



Used with permission, The ARRL Letter, Sept 22, 2016

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NASA's CubeSat Launch Initiative Opens Space to Educators, Nonprofits

NASA is soliciting another round of CubeSat Launch Initiative ([CSLI](#)) applications. The agency is inviting accredited education institutions, nonprofit organizations, and NASA centers to join the adventure and challenge of space while helping it to achieve its exploration goals. Many research CubeSats launched as part of the CSLI have carried Amateur Radio payloads. Applications are due by November 22.

The CSLI provides CubeSat developers with a low-cost pathway to space, in order to conduct research that advances NASA's strategic goals in the areas of science, exploration, technology development, education, and operations. The initiative provides students, teachers, and faculty with a chance to get hands-on flight hardware development experience, designing, building, and operating these small research satellites. NASA will announce its selections by February 17, although selection does not guarantee a launch opportunity.



Selected experiments are considered auxiliary payloads on NASA launches or for International Space Station deployment starting next year and continuing through 2020. Selected organizations are responsible for funding the development of their CubeSats. To date, NASA has chosen 119 CubeSat missions, and 46 of those have gone on to launch; another 29 are set to launch within the next 12 months.

For this round of the initiative, NASA is particularly interested in participation from organizations in the District of Columbia, Puerto Rico, and 18 states not previously selected. These include Arkansas, Delaware, Georgia, Iowa, Kansas, Maine, Minnesota, Mississippi, Nebraska, Nevada, New Hampshire, North Carolina, Oklahoma, Oregon, South Carolina, South Dakota, Washington, and Wyoming.

The NASA website offers [more information](#) on the CSLI. -- *Thanks to NASA*

Used with permission, The ARRL Letter, Sept 8, 2016

REPEATER FREQUENCIES

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

PL: 107.2 for all repeaters

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

Visitors are welcome to all meetings and nets.

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

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

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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