



October, 2018  
Volume 56 Issue 10

# MARANews



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## **Next meeting October 16, 2018 at 6:30pm at the Bridgewater Public Library**

Our November meeting will be on the 13th 2018 6:30pm at the Bridgewater Public library

## **ATTENTION CLUB MEMBERS**

Phil N1XTB reports the exercises for Pilgrim Power Station will be on the following dates.

## **November 7, 2018 this is the graded exercise**

We need all members who can make it to this event to come out. The club gets paid per member present. The exercises will be at the Bridgewater EOC please come on out. Parking is on the Center St side of the building near the gymnasium. Time is 0830 until the drill ends

## **Presidents KC1CFO Denise Sisson**



## **Presidents Notes from KC1CFO Denise Sisson**

MARA Facebook page: Our Massasoit Amateur Radio Association Facebook page with club events, meetings, photos, etc. is occasionally updated so that it can be another resource for us on which to spark interest of our club, amateur radio and keep members informed of what we are doing outside of our club meetings and in our community. If you go to the "about" tab on our page you can find our <http://www.w1mv.org/> web page for our present and past newsletters and other club information. Please send Rick - kb1tee@gmail.com and Denise KC1CFO denigs1@aol.com any articles or photos you would like to see in our MARA newsletter, W1MV-MARA Website and Facebook page. Jeff N1ZZN has created a link to twitter to help get the word out even more!

Looking forward to seeing everyone on Tuesday, October 16th, for our monthly meeting.

73 Denise KC1CFO

President-Massasoit Amateur Radio Association

## **SECRETARY NOTES - MARA MEETING 9/18/18 - ROBERT SISSON N1RTS**

### **No September meeting due to weather flooding**

#### **Amateur Radio Volunteers in Indonesia Link Earthquake Zone with Outside World**

Following a devastating 7.7-magnitude earthquake and tsunami in Central Sulawesi Island in Indonesia, on September 28, members of International Amateur Radio Union ([IARU](#)) member-society [ORARI](#) and other volunteers have been providing emergency communication for community and government interests. The quake and tsunami destroyed the city of Palu, completely cutting power and telecommunications.



**Satellite view of the stricken City of Palu. [Google Crisis Response image]**

New IARU Region 3 Disaster Communication Coordinator Dani Halim, YB2TJV, said Amateur Radio operators in Indonesia immediately responded to the unfolding disaster, establishing an emergency net on 7.110 MHz. Amateur Radio volunteers from other regions also pitched in to support radio communication for emergency news on 7.110 MHz and 7.065 MHz. ORARI has asked that radio amateurs not involved in the emergency response avoid those frequencies. ORARI also activated the LAPAN-ORARI IO-86 satellite as a backup communication channel. Some radio amateurs with mobile stations have traveled to the affected region to help.

According to Budi Santoso, YF1AR, on Java Island, the local Palu ORARI representative Ronny Korompot, YB8PR, was among the first contacted. Through his mobile station, he reported on conditions and the response, including evacuations. Sutrisno Sofingi, YB8NT, was also heard on 7.110 MHz using an emergency station he assembled at the disaster site. He said Amateur Radio was the only available communication with the outside world.

Amateur Radio also has assisted government agencies following severe damage to the telecommunication infrastructure. Hams operating on 2 meters were communicating information on which roads were open to allow traffic from the outside.

Halim reported that communication was established from the Luwuk Disaster Management Agency some 430 miles from the earthquake's epicenter to obtain information on landslides and blocked roads and highways.

Salmin Sahidin, YB8IBD, in Southeast Sulawesi has been live streaming audio of the activity on 7.110 MHz via his Facebook page.

The earthquake and subsequent tsunami has claimed more than 1,400 people and caused widespread devastation. Some victims remain trapped in the debris. -- Thanks to IARU Region 3 and Budi Santoso, YF1AR



## ARRL Updating its Website Security Software

The ARRL website will update its security software on October 15 to meet standards required to continue accepting credit cards for internet purchases.



"For the vast majority of our members, there will be no impact other than a guarantee of better security when logging into and making purchases on the ARRL website," said ARRL Headquarters IT Department Manager Mike Keane, K1MK. "Only those using old browsers or outdated operating systems will encounter a browser error message when trying to log in or make a purchase on the website."

These browsers are among those that are safe to continue using:

- Google Chrome 30 or higher (version 40 or higher recommended)
- Mozilla Firefox 27 or higher (version 34 or higher recommended)
- Microsoft Internet Explorer 11 or higher
- Apple Safari 7 or higher (Safari 5 or higher on mobile)
- Microsoft Edge, all versions
- Opera 17 or higher (version 27 or higher recommended)

The vast majority of our website users will not have to take any action. Most modern browsers and operating systems will not be affected by the change, as they already support the new security standards. If you *are* affected, go to your browser vendor's website and download an up-to-date version of your browser.

To check if your browser will be affected by this change, you can use the site [How's My SSL?](#) This will advise you of your browser's version.

"We know it is common for some radio amateurs to keep older computers for logging or radio control," ARRL Marketing Manager Bob Inderbitzen, NQ1R, observed. "If the computer is connected to the internet, ARRL recommends that users keep their computers up to date in terms of operating system, software updates, and hardware to protect you and your personal information from online security vulnerabilities."



The [VP6D Ducie Island 2018 DXpedition](#) October 20 through November 3 will use [DXA](#) to post contacts on a near real-time basis. "Bob Schmieder, KK6EK, of Cordell Expeditions, offered the use of DXA, and we gladly accepted," the DXpedition said in a news update this week. "Within 60 seconds of your contact with VP6D, the browser page is automatically updated to show your call sign; this confirms that your contact is in the log (DXA reads the VP6D log). This process eliminates the need for duplicate contacts on the same band/mode and minimizes the confusion caused by pirates or other DXpeditions operating at the same time." The DXpedition leaders said they

performed an end-to-end test of the DXA system, and expressed confidence that DXA "will significantly reduce, or eliminate, the hundreds of emails asking for 'log checks.' If you see your call sign on DXA, you're in the log." The VP6D Ducie Island 2018 DXpedition will continue through November 3. The VP6D team also plans to put Ducie Island on 6-meter moonbounce for the first time ever. Operation will be on 50.200 MHz using JT65.

## **Spray-On Antennas Could Be the Wave of the Future, University Researchers Believe**

Researchers at Drexel University's College of Engineering [report](#) a breakthrough in nanomaterials technology that promises to make installing an antenna as easy as applying sunblock or bug spray. The University reported the research in a *DrexelNOW* article, "Drexel's Spray-On Antennas Could Be the Tech Connector of the Future." The advance could mean wearable and invisible antennas that could find their place in the next generation of the Internet of Things (IoT), and even have Amateur Radio applications.

"The ability to spray an antenna on a flexible substrate or make it optically transparent means that we could have a lot of new places to set up networks," said Drexel Wireless Systems Laboratory Director and engineering professor Kapil Dandekar, a co-author of the research published recently in *Science Advances*.

"This technology could enable the truly seamless integration of antennas with everyday objects, which will be critical for the emerging Internet of things," Dandekar said.



In their paper, Dandekar and his colleagues laid out a method for spraying invisibly thin antennas made from a type of two-dimensional metallic material called MXene -- a conductive, two-dimensional titanium carbide material -- which can be dissolved in water to create an ink or paint. They said the exceptional conductivity of the material enables it to be employed as an RF radiator, even when applied in a very thin, nearly invisible coating. The MXene antennas perform as well as those now being used in mobile devices, wireless routers, and other devices, the Drexel researchers said. In addition, the MXene materials were shown to be 50 times better than graphene and 300 times better than silver ink antennas in terms of preserving the quality of RF transmission.



**Yury Gogotsi, director of the A.J. Drexel Nanomaterials Institute.**

**[Photo courtesy of Drexel University]**

"Current fabrication methods of metals cannot make antennas thin enough and applicable to any surface, in spite of decades of research and development to improve the performance of metal antennas," said Yury Gogotsi, Ph.D., director of the A.J. Drexel Nanomaterials Institute, who initiated and led the project. "We were looking for two-dimensional nanomaterials, which have sheet thickness about 100,000 times thinner than a human hair; just a few atoms across, and can self-assemble into conductive films upon deposition on any surface. Therefore, we selected MXene as a candidate for ultra-thin antennas."

"The MXene antenna not only outperformed the macro and micro world of metal antennas, we went beyond the performance of available nanomaterial antennas, while keeping the antenna thickness very low," said Babak Anasori, a research assistant professor in the A.J. Drexel Nanomaterials Institute. "The thinnest antenna was as thin as 62 nanometers -- about a thousand times thinner than a sheet of paper -- and it was almost transparent."

Unlike existing nanomaterial fabrication methods that require several steps, the Drexel research team's spray-on antennas can be fabricated in a single step by airbrush spraying a water-based MXene ink, Anasori said. -- *Thanks to DrexelNow*



## **Scouting's 2018 Jamboree on the Air Set for October 19 - 21**

Scouting organizations are still [registering](#) to participate in the 2018 Jamboree on the Air ([JOTA](#)) over the October 19 - 21 weekend. With about 1 month to go, JOTA Coordinator Jim Wilson, K5ND, told ARRL that registration is "probably on target" at this point. US registrations stood at 235 as of the end of last week. Right after JOTA 2017, 489 US locations had signed up, although that included both Jamboree on the Air and Jamboree on the Internet (JOTI) participants, which, Wilson said, the Boy Scouts of America (BSA) have "remained steadfast" in considering JOTA and JOTI as separate events, although, he noted, this is not the case at the world level.

"Our goals are primarily to grow participation," Wilson told ARRL. "The World JOTA-JOTI Team has set a goal of 3 million participants by 2021; 2017 saw 1.5 million worldwide. [Sign-ups at the world level](#) right now are at 1,428 locations. Wilson said that, in the US, many locations wait until the last minute to register their participation. In 2017, some 7,900 Scouts took part in JOTA, down by nearly 10,800 participants from 2016, but topping participation for 2014 and 2015. Total radio contact numbers were down from 2016 and 2015.

"We've also put in place a number of aids to help people improve their on-the-air experience, which will be challenging without sunspots," Wilson pointed out. "We've provided a [video](#) of how to work HF for JOTA. We've also provided a [quick reference card](#) to help Scouts during the QSO." [Recommended JOTA frequencies](#) are listed on the K2BSA website. "Operators should note that these frequencies are starting points to find QSOs," Wilson added. "They can also turn the dial to find other stations on the air. It's not like a repeater." A [list of Girl Scout activities](#) supported by JOTA-JOTI has also been posted.



Held each year on the third full weekend in October, JOTA is the world's largest Scouting event. JOTA uses Amateur Radio to link Scouts and hams around the world. Scouts of any age and gender can participate, from Cub Scouts to Boy Scouts and Venturers.

Radio amateurs at the local level are encouraged to work with a scout council or unit to set up a JOTA station or arrange to have Scouts visit their shacks. "You can also participate just by making QSOs with the many JOTA stations that will be on the air," Wilson said.

# **NEAR-Fest**

**New England Amateur Radio Festival**

**NEAR-Fest XXIV**

**October 12 & 13, 2018**

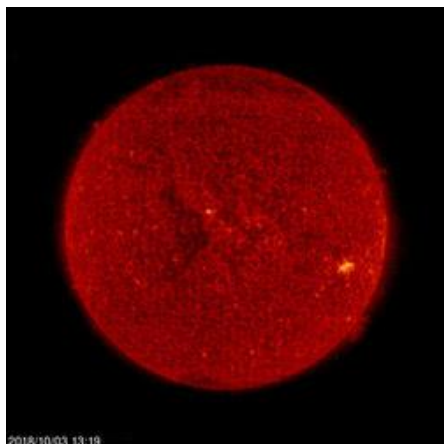
**Deerfield, New Hampshire**

## **Skywarn net every Saturday night 2000 (8:00) on the 180**

Please jump in and give your weather reports on the Skywarn net we meet at 8:00 on 147.180. If you want to be a Net controller contact Denise KC1CFO I am sure he would enjoy the help

## **The K7RA Solar Update**

Tad Cook, K7RA, Seattle, reports: Sunspots finally returned on September 29, after more than 2 weeks with none. Average daily sunspot numbers increased from 0 to 9.6, and average daily solar flux increased from 67.9 to 68.4 over the September 27 - October 3 reporting week.



Average daily planetary A index declined from 10.9 to 7.7, while average mid-latitude A index changed from 7.9 to 6.1.

Predicted solar flux is 68 on October 4-18; 70 on October 19 - November 2; 68 on November 3-14, and 70 on November 15-17.

Predicted planetary A index is 8, 8, 5, 20, 20, and 12 on October 4-9; 15 on October 10-11; 8, 5, 12, and 8 on October 12-15; 5 on October 16-17; 10, 25, 14, 8, and 12 on October 18-22; 8 on October 23-25; 10, 6, 12, 8, and 5 on October 26-30; 8 on October 31 - November 2; 20, 35, 10, 18, and 15 on November 3-7; 8, 5, 10, 8, and 5 on November 8-12; and 5, 10, 25, 15, and 8 on November 13-17.

Sunspot numbers for September 27 - October 3 were 0, 0, 13, 14, 14, 14, and 12, with a mean of 9.6. The 10.7-centimeter flux was 67.1, 69.1, 68.7, 68.3, 70.1, 67, and 68.4, with a mean of 68.4. Estimated planetary A indices were 7, 8, 10, 6, 9, 8, and 6, with a mean of 7.7. Estimated mid-latitude A indices were 6, 8, 9, 4, 6, 6, and 4, with a mean of 6.1.

## **Just Ahead in Radiosport**

- October 5-7 -- All YLRL DX/NA YL Anniversary Contest (CW, phone, digital)
- October 6 -- Microwave Fall Sprint
- October 6 -- FISTS Fall Slow Speed Sprint (CW)
- October 6-7 -- California QSO Party (CW, phone)
- October 6-7 -- TRC DX Contest (CW, phone)
- October 6-7 -- Oceania DX Contest (Phone)
- October 6-7 -- Russian WW Digital Contest
- October 6-7 -- International HELL Contest (Digital)
- October 7 -- RSGB DX Contest (CW, phone)
- October 7 -- UBA ON Contest (SSB)
- October 7 -- Peanut Power QRP Sprint (CW, phone)
- October 8 -- RSGB 80-Meter Autumn Series (CW)
- October 10 -- 10-10 International 10-10 Day Sprint (CW, phone, digital)
- October 10 -- NAQCC CW Sprint

See the [ARRL Contest Calendar](#) for more information. For in-depth reporting on Amateur Radio contesting, subscribe to [The ARRL Contest Update](#) via your ARRL member profile email preferences.

## New England Area Ham - Electronic Flea Market DATES 2018

2018

15 Sept Alexander ME StCVARC @ElSch	Rodger W1LH 207 454 2174 A+
16 September Cambridge MA Flea at MIT Third Sunday April thru October	Mitch 617 253 3776 F
22 Sept Windsor ME AARA @FG	Bill K1NIT 207 512 0312 A+
6 October Brookline NH NEARC antique	603 772 7516 +
6 Oct S Dartmouth MA SEMARA @54 Donald @8A Free	508 997 7070 F+
7 October Queens NY HOSARC @HOS \$5@9 \$10/sp	Stephen WB2KDG 718 898 5599 A+
12-13 Oct Deerfield NH NEARfest XXIV @FG	Mike K1TWF 978 250 1235
21 October Cambridge MA Flea at MIT	Mitch 617 253 3776 F
21 Oct Meriden CT Nutmeg	John N1GNV 203 440 4973 A+
27 Oct Gales Ferry CT TCARC @FireCo auction	Tom WA2RYV 860 464 6555
28 Oct Hicksville NY LIMARC @LevitHall	Richard K2KNB 516 694 4937 A+
28 Oct Fishkill NY MtBeacon @DCE	Adam AE2AN 845 849 3666 A+
3 Nov Bourne MA FARA @UpperCC VoTech \$5@9 \$10/S@7	Ralph N1YHS 508 548 0422
1 Dec Windsor CT VR+C Mus 115 Pierson LN @8AM Indoor	John 860 673 0518 +

2019

16 Feb Marlboro MA AARC @MidSch	Timothy KA1OS 508 919 6136 A+
23 Feb S Burlington VT RAoNV @HI I89x14 \$9@8 \$15@6	Mitch W1SJ 802 879 6589
9 Mar Chicopee MA MtTomARA @Castle \$5@8:30 S@6:30	Brian N1FI 860 478 6790 +
29,30 Mar Lewiston ME AARC ME Conv @Ramada @8	Ivan N1OXA 207 784 0350 +
7 April Framingham MA FARA 9AM@KeefeHS \$25/T	Andy KC1DMM 508 310 5913 +
28 April Thompson CT ECARA @ Raceway \$3 \$15/sp	Jon KA1MPG 508 943 4467 F+

### HAM RADIO LOCAL AREA NETS

If you know of a Ham Radio Local Area Net that is not listed here, a typo on the information, or a Net listed which is no longer active, please contact John – N1UMJ at: [N1UMJ@arrl.net](mailto:N1UMJ@arrl.net), so this list can be updated. All Frequencies are in MHz and 6 Meters (50.0 MHz and up.), are FM Mode unless otherwise noted. Thanks!

Sunday: WA1NPO – WARPSN Net, 8:30 AM, Whitman ARC Rptr, 147.225 +, PL 67.0

8:45 AM New England phone net, 3.945 +/- LSB

NE Cracker Barrel Net, 7:00 PM Daily (Matt – W1AEM, NCO on Sun), 3.921.00 MHz LSB

Pilgrim Amateur Wireless Assoc. 10 Meter Net, 7:00 PM, 28.375.0 USB

Cape & Island Traffic Net, Mon. Tue. Thur. St. Night at 7:30 PM, Falmouth N1YHS Rptr, 147.375 + PL 110.9

Genesis ARC CW Training Net, 7:00 PM, Plymouth N1ZIZ Rptr, 146.685 – PL 131.8

Eastern MA 2 Mtr Traffic Net, Every Night at 8:00 PM, Boston W1BOS Rptr, 145.230 – PL 88.5

Norfolk County Radio Association Net, 8:00 PM, Walpole Rptr, 146.895 – PL 123.0

Monday: Cape and Islands Weather Net, 6:00 AM, Mon – Sat, Dennis K1PBO Rptr, 146.955 – PL 88.5

Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Norfolk County Emergency Preparedness Net, 8:00 PM, Walpole Rptr, 146.895 – PL 123.0

New England DMR net, DMR-MARC repeaters talk group 3181 New England

Falmouth ARA Net, 8:30 PM, Falmouth K1RK Rptr, 146.655 – PL 88.5

Boston ARC Rag Chew Net, 9:00 PM, Boston W1BOS Rptr, 145.230 – PL 88.5

Tuesday: Massasoit ARA Net, 8:00 PM, Bridgewater W1MV Rptr, 147.180 + PL 67.0 (Except 3rd Tue!)

Genesis ARC 2 Mtr Rag-Chew Net, 7:30 PM, Plymouth N1ZIZ Rptr, 146.685 – PL 131.8

Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Norwood Amateur Radio Club Net, 8:00 PM, Norwood Rptr, 147.210 + PL 100.0

220 MHz Day! Try to find a 220 Repeater near you and give a call out!

Wednesday: Whitman ARC 10 Meter Rag-Chew Net, 8:00 PM, 28.333.0 USB (Except 1 st Wed!)

Blackstone Valley ARC , 2 Mtr Simplex Net, 7:00 PM, 146.565

Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Cape and Islands ARES Net, 8:00 PM, Dennis K1PBO Rptr, 146.955 – PL 88.5

Waltham Wranglers Swap Net. 9:00 PM, Waltham W1MHL Rptr , 146.64 – PL 136.5

Thursday: Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Genesis ARC CW Training Net, 7:00 PM, Plymouth N1ZIZ Rptr, 146.685 – PL 131.8

10 Mtr General Class Rag-Chew Net, 8:00 PM, 29.470.0 FM

Sturdy Mem. Hosp. ARC ARES Practice Net, 8:30 PM, K1SMH Rptr, 147.195 + PL 127.3

900 MHz Day! Try to find a 900 Repeater near you and give a call out!

Friday: Fairhaven Weather Net, 8:00 PM, SEMARA Rptr, 147.000 + PL 67.0

Saturday: South Shore Skywarn Net, 8:00 PM, Bridgewater W1MV Rptr, 147.180 + PL 67.0

\*VKEMCOMM\* Echolink Conference node: 270177/IRLP 9508 (due to \*WX-TALK\* Echolink

conference node: 7203/IRLP 9219 outage) Refer to: <http://www.voipwx.net/>



## **Massasoit Amateur Radio Association Executive board**

President Denise Sisson KC1CFO  
Vice President Jeff Lehmann N1ZZN

Treasurer: Phil McNamara N1XTB

Secretary:

Call sign Trustee: Phil McNamara N1XTB

Repeater Trustees: Carl Aveni N1FY., Lou Harris N1UEC, Bob Mandeville N1EDM

**2M Repeater** 147.180+ (Tone 67.0)

**440 Repeater** 444.550+ (Tone 88.5)

**APRS Node** Node 144.39 W1MV-1

**Packet BBS** 145.09 N1XTB-4

**Packet Node Brockton** 145.09 W1JOE-7 (BROCK)

**MARA Web page** <http://www.w1mv.org/>

**Newsletter Editor** [kb1tee@gmail.com](mailto:kb1tee@gmail.com)

**WARC Web Page** <http://www.wa1npo.org>

**Qsl via** [www.eqsl.cc](http://www.eqsl.cc)

**Skywarn** [www.powersrvcs.org/w1gmf/skywarn.htm](http://www.powersrvcs.org/w1gmf/skywarn.htm)

**Mailing Address** P.O. Box 428 Bridgewater, MA 02324

**Monthly meetings** are held the 3<sup>rd</sup> Tuesday of each month at 6:30PM at the Bridgewater Public Library in Bridgewater Center. Talk-in is on 147.180+

Our **Meetings-On-The-Air** are held all other Tuesday evenings at 8PM on 147.180+ and includes the Westlink News Report with the latest news about happenings in the world of Amateur Radio.

The **South Shore Skywarn Net** is held every Saturday evening at 8PM local time on 147.180+ and is open to all hams.

**VE Exams** are held the 2<sup>nd</sup> Saturday of every month, in Braintree contact Steve Cohen , W1OD via email w1od@arrrl.net. Walk-ins are no longer permitted. We will be hosting VE exams at 8:45 at the Watson building. If you know of anyone planning to take an exam, please have them drop a note to Steve to confirm a reservation.

Editor Rick Emord KB1TEE

TV and Movies using radio communications



*Harbor Command* is an American police series that was syndicated from October 11, 1957, to July 4, 1958. The series stars Wendell Corey as Captain Ralph Baxter, an officer of the Harbor Police of a large coastal city (the city is unnamed, but much of the series was filmed in San Francisco and San Diego). The series was produced by Ziv Television Programs, with the assistance of the law enforcement arms of Harbor and Port Authorities across the country. Captain Richard Storm, of the Port of San Diego's Harbor Police, was credited as the technical adviser for the series.



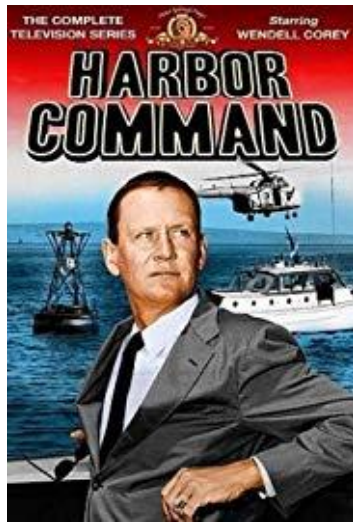
Wendell Corey

. Captain Ralph Baxter

Clark Howat

... Police Dispatcher





We gratefully dedicate this program  
to the men who constantly risk their  
lives fighting every danger to protect  
our harbor areas. We wish to thank  
the port of San Francisco for its  
cooperation in making the authentic  
production of this picture possible.