

THE Propagator

Garden State Amateur Radio Association

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Holmdel, NJ 07733
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April 2018



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VE SESSION

The GSARA monthly test session will be held at the Red Cross on Saturday, April 28 at 11 am. The fee is \$15 and you should bring the original and a copy of any amateur license presently held and the original and one copy of any credit (CSCE) forms that you have (copies will be sent in with your test results). Also bring 2 forms of ID with one being a photo ID. For more information, contact Rich Bilon, N3RB at 732-567-4396 or n3rb@arri.net.

MEETING INFO

The next GSARA meeting will be on Wednesday, April 4 at 7:30 PM at the Red Cross. This will be a program meeting and the program will be a presentation by Denis, K2NPT who will present a detailed plan (with costs) for upgrading the W2GSA repeater to a Fusion repeater. Also, Art, N2AJO will present a proposal (with costs) for operating a radio at the Red Cross from member's homes via the internet. Both upgrades presented have advantages for but they come at a cost. Come to the meeting and get all of the facts!

The second meeting will be held on Wednesday, April 18 at 7:30 PM at the Red Cross. This will be a business meeting with reports from the various committees. Don't miss it! Light refreshments will be served and guests are welcome.

Instant GSARA Info

GSARA Patches

We have GSARA patches available at all meetings and they are \$3. Show your GSARA pride!

GSARA News

Keep up with GSARA news at the GSARA website:
www.gsara.club
w2gsa.org

Blue Swan Diner Eyeball QSO!

A number of local radio amateurs meet each Friday at the Blue Swan Diner on Highway 35 south in Ocean Township at noon. Anyone interested in amateur radio is welcome to join us in the back left corner of the diner.



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From the Editor

Bob Buus W2OD

What a month March has been! I can't recall a previous month when both GSARA meetings had to be cancelled due to snowstorms although

we did have to cancel the first meeting in March five years ago. Anyway, it horsed up Blair's program about the HamSci workshop which has now been rescheduled for the May 2 meeting.

Because of the cancelled March meetings, we are giving those members in arrears with their dues until the first meeting in April to pay before being dropped from our Roster. If you haven't already done so, please pay your dues. I intend to distribute a new Roster as soon as I am finished with this issue of The Propagator. It shows well over 100 members. Will enough of you pay your dues so the following roster will still be near 100 members? We'll have to wait to find out.

There are some neat operating events coming up in April. NNJ ARES is sponsoring the 5 Watt Challenge whereby you are limited to 5 Watts of power using only back-up power (battery or generator - no commercial power). You can use 2 meter FM, 6 meter digital or 40 meter CW or digital. It should be fun.

Then there is the commemoration of the sinking of the Titanic from April 12 to the 15th. This is followed by the annual Marconi Day on Saturday, April 21 UTC (actually the 24 hours starting 8 pm Friday). Please plan to participate.

Finally, I was pleased to see the ARRL propose expanded HF privileges for Technicians. Amateur radio is a lot more than making 2 meter contacts through repeaters. Letting Technicians get a taste of digital and SSB on the HF bands opens up a lot of interesting possibilities - especially to work DX. Let's hope that the FCC acts on this proposal soon.

As always, I appreciate feedback or material for The Propagator. The deadline for the May issue is April 15.

73 de Bob, w2od@arrl.net

5 WATT CHALLENGE APRIL

By John S. Wyatt, W2VTV

Saturday, April 7 from 3 pm to 9 pm.

5 watts Max power, HF or VHF

No commercial power. Use of mobiles is allowed if running only 5 watts.

Exchange: Call, Name, County and ARES appointment if any.

Frequencies: 146.58 simplex, 50.265 digital, 7.070 digital and 7.040 CW

Score: 10 pts, 2m FM less than 5 miles (participate must calculate the distance using QRZ maps)

20 pts, 2m FM more than 5 miles and less than 10 miles

40 pts, 2m FM over 10 miles

50 pts, 6m and 40m digital and CW

100 pts, NBEMS message, sent and received

Bonuses:

Work the Section Manager, SEC, ASEC or County DEC and get 5 times contact points.

If the operating station has an operating generator and/ or battery bank gets a bonus of 50 pts, whether or not, it's actually used.

Let's test our ability to communicate without repeaters and commercial power at 5 watts! Certificates will be awarded to the top ten scores in the twelve NNJ counties.

The use of exterior antennas is encouraged! Please share with your friends!

Submit your log to: W2VTV@yahoo.com by April 28th

<http://nnj.arrl.org/5wc>

Hope to hear you, 73, John



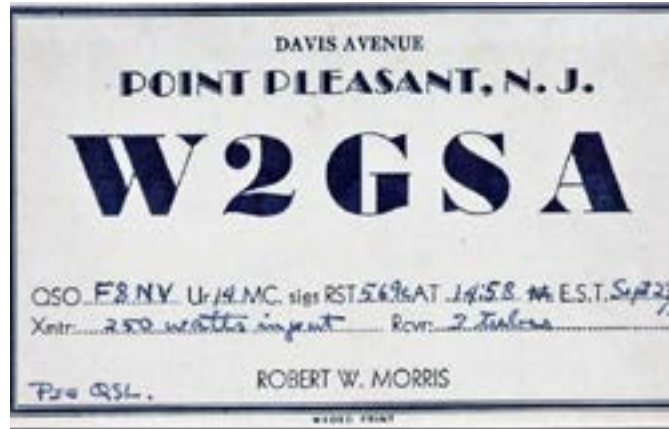
GSARA HISTORY

By John King, KA2F

Some members, especially those joining recently, may not be aware that the club call sign originally belonged to Robert W. Morris from Point Pleasant. Bob died in a Seaplane accident in 1943. He had been the pilot, was seriously injured yet had the courage and energy to save his co-pilot from drowning. He died of his injuries in the wreckage about a week later.

Bob had been one of the neers of the Monmouth Shore radio operators, contesting, and was his ham friends.

When the Monmouth Shore groups decided to form a new unified ham radio club in 1950 they chose to use Bob's call sign. It fit perfectly for Garden State Amateur radio as-



the ham radio pio-County and Jersey was an award winning ham radio operator who was warmly liked by all

County and Jersey to form a new unified ham radio club in 1950 they chose to use Bob's call sign. It fit perfectly for Garden State Amateur radio as-

We have Bob's Navy Wings and two of his logbooks which did not contain any DX entries. In GSARA's radio room there is a framed IN MEMORIAM detailing information about Bob's radio work and Navy seaplane work during WW II.

Now thanks to Mike Tortorella, W2IY, we have received from a French QSL collector Bob's QSL card. Notice the differences in information between 1938 and 2018.

MARCONI SPECIAL EVENTS FROM CAPE COD

It is mere coincidence that the Titanic disaster in 1912 -- one of the worst maritime disasters in history -- and the birth of Guglielmo Marconi in 1874 -- the developer of the wireless gear equipping the ill-fated ship -- both occurred in April. Marconi Wireless Company radio operators aboard the Titanic transmitted the distress signal after the gigantic vessel struck an iceberg in the North Atlantic on its maiden voyage. Co-located Amateur Radio special events in April will commemorate both events, which will take place from FN51, a rare grid square that's mostly water. ARRL International Grid Chase 2018 (IGC) enthusiasts take note! Both events will be held at the Nauset Coast Guard Station in Eastham, Massachusetts.

The Titanic/Marconi Memorial Radio Association of Cape Cod operation will use W1MGY, in recognition of the Titanic's MGY call sign. Operation will begin on Saturday, April 12, at 9 AM ET and continue until April 15 at 1:27 AM ET (0527 UTC) -- the time when the Virginian heard Titanic's last radio message 106 years ago. The Titanic disaster claimed some 1,500 lives.

From The ARRL Letter, March 22, 2018

UNAUTHORIZED LAUNCH OF SPACEBEEES

When an Amateur Radio satellite launched on January 12 from India on Polar Satellite Launch Vehicle (PSLV) C40, some tiny 0.25 U CubeSats called SpaceBEEs -- not to be confused with the fantasy insects in the "Futurama" TV cartoon -- went into space on the same flight that apparently should not have.

Last December, in a letter to their developer, [Swarm Technologies Inc.](#) advised that the FCC was unable to grant the company's application for an experimental authorization in association with deployment and operation of "four spacecraft smaller than 10 cm in one of their three dimensions." In dismissing the application without prejudice, the FCC said the spacecraft were below the size threshold "at which detection by the Space Surveillance Network (SSN) can be considered routine."

The FCC has told Swarm Technologies that its application for an additional experimental authorization had been set aside "to permit assessment of the impact of the applicant's apparent unauthorized launch and operation of four satellites, and related statements and representations, on its qualifications to be a Commission licensee.

From The ARRL Letter, March 1, 2018

OMARC DEDICATION CEREMONY

By John King, KA2F

In response to Art, W2NAZ's invitation, I attended the OMARC dedication ceremony on February 10, 2018, of their new radio room in the Spring Lake Heights Fire Station. Because of my GSARA hat and call sign badge I was both personally recognized and seen as a representative of GSARA club. All of the officers of OMARC welcomed me and thanked me for coming to support their club. The room appeared well equipped with four operating positions. They have plans to expand the floor space of the radio room in the future, add a tower and beam antennas, etc. The radio room was dedicated to Bob Witham WD2U with a richly engraved bronze and walnut plaque nominally presented to Bob's widow, daughter and grandchildren. Refreshments and lively conversation followed.

Just prior to the ceremony, OMARC had a brief meeting to consider updating their Yaesu digital repeater after a report by Phil Festa, N2EDX. They voted to approve purchase of the new repeater. Announcement of the dates for a spring and fall hamfest was made.

Regards,
John KA2F



W2GSA CLUB NET

The GSARA weekly net meets each Tuesday evening at 8:30 on the GSARA repeater. Everyone is welcome to hear news of upcoming club events and activities, reports of the latest club news and everyone can share what they have been up to. Please join us. The more participation, the more fun!

W2GSA.CLUB W2GSA.ORG

Have you seen the GSARA website lately? Check it out often for updates, news, announcements and general club information. If you have not yet done so, send us a picture of your shack and a selfie for the Members; Shacks and Our Members page. There is also a new feature: there is a Members Only Page which will contain important links viewable by GSARA members only including the most current roster and, in the coming months, the previous month's minutes from the meeting. Send your selfies to Cy, K2CYS at k2cys@arrl.org. Do you have any other great ideas for the site? Let Cy know.



QSL BUREAU

If any GSARA members wish to combine their QSL cards that are going through the outgoing ARRL Bureau, please bring them to the next GSARA meeting along with the label from a recent QST Magazine (you must be an ARRL member to participate in this program). Either John, KA2F or Len, WA1PCY will then send them on to ARRL at no charge to GSARA members. It couldn't be much easier than that to QSL. You are registered at the W2 incoming bureau, aren't you?

did you know?

Marconi at Belmar

By Bob Buus, W2OD

After the successful trans-Atlantic test of December 1901, Marconi proceeded to build his most powerful spark station at Glace Bay, Nova Scotia. The 75 kilowatt station took all of 1902 to build and had a new antenna design consisting of four 215-foot towers arranged in a square with 200 feet to a side. The antenna itself was an inverted pyramid with the top being a 200 foot square and the apex a point on the ground in the center of the four towers. The same antenna was also constructed at Poldhu and Cape Cod.

In December 1902, the first west to east signal was successfully sent across the Atlantic

from Glace Bay to Poldhu. This was at night since the sun poisoning problem wiping out daytime transmission was not yet solved. Marconi found that lowering the frequency seemed to improve daytime transmission and finally, the first daytime trans-Atlantic signals

were sent west to east on September 26, 1903 with Glace Bay transmitting around 50 kHz. Unfortunately, the inverted pyramid antennas at Glace Bay and Poldhu were very

inefficient at these frequencies because they were so short – only about a hundredth of a wavelength. The east to west signal coming from the “puny” 25 kW Poldhu station could not be heard in North America.

A new station to replace Poldhu was built on



the west coast of Ireland at Clifden. This was powered by a 500 kW generator fueled by peat from the peat bogs in the region. Clifden used a rotary spark gap which significantly increased the output power to such an extent that all of the Marconi stations converted to rotary spark by 1907 when Clifden was finally on the air.

Another improvement at both Clifden and Glace Bay was that the inverted pyramid antenna was replaced by a mile-long horizontal wire about 400 feet in the air. This was found to be much more effective at the 50 kHz frequency and was highly directional along the axis of the wire. Finally, in 1907, Marconi had reliable two-way trans-Atlantic communication both day and night between Glace Bay on 38 kHz and Clifden on 55 kHz..

As radio traffic built up, it was obviously desirable to operate full duplex so transmitters at both ends could send simultaneously. Marconi found a way to operate full duplex by separating the receiving station from the transmitter by 30 miles or so and placing the receiving station at right angles to the transmitting antenna. Further rejection of the strong transmitting signal was achieved by picking up some of the transmitted signal with a small antenna and adding this signal out of phase with the received signal to null out the interfering transmitted signal.

From 1910 to 1914, Marconi built many high power transmitting stations in the LF and VLF bands with the long horizontal wire antennas and remote receiving stations. This would provide a "wireless girdle" around the world. To accommodate the large antennas, the Cape Cod station was moved inland to Marion, MA for the transmitter and Chatham, MA for the receiver. The Glace Bay receiving station was located at Louisberg, Nova Scotia and Clifden's receiving station was at Letterfrack, Ire-

land.

A new 300 kW station on 20 kHz was built at New Brunswick (actually Somerset, NJ but Marconi named his stations for the nearest railroad terminal) and put in operation in 1914. The corresponding receiving station was located in Wall but was named the Belmar receiving station. While Belmar was still under construction, Edwin Armstrong on January 31, 1914, demonstrated his regenerative receiver to David Sarnoff using the huge wire antenna. The sensitivity was so good that they heard stations from around the world that night.

The European station that Belmar listened for was a 400 kW station in Caernarvon, Wales. The receiving station for New Brunswick was located in Towyn, Wales. Because of a kerfuffle between England and Wales, the Caernarvon station was only on sporadically prior to World War I.

When war broke out in Europe, the U.S. Navy sent observers to Belmar to assure that no messages were sent or received that might violate the neutrality of the United States. When the U.S. entered the war, the Navy took over the entire Belmar station. Prior to this time, Marconi had been trying to buy an Alexanderson alternator from GE to replace the spark transmitter at New Brunswick but GE wouldn't sell to him. After the Navy took over, a 200 kW Alexanderson alternator was delivered by GE to New Brunswick and replaced the 300 kW rotary spark trans-

mitter. Since a rotary spark transmitter is less than 10% efficient and the Alexanderson about 85% efficient, this change made the New Brunswick transmitter the most powerful transmitter in the world. On January 18, 1918, NFF New Brunswick broadcast President Wilson's 14 point peace proposal which was heard around the world including station POZ in Nauen, Germany. Some speculate that it may have hastened the German surrender.

When the war ended, there was considerable discussion in the United States about the future of wireless transmitters. Congress felt strongly that wireless stations in the U.S. should not be owned and controlled by foreign countries. The U.S. Navy wanted to continue its control of all transmitters (including a perpetual ban on all future amateur transmitters). After some serious arm-twisting, Marconi agreed to sell his U.S. operations to a consortium consisting of GE, AT&T and Westinghouse. The new company, called Radio Corporation of America, was formed on November 21, 1919 as a monopoly for radio having access to all radio patents of the consortium. RCA operated the Belmar-New Brunswick station until 1923 when it moved all of its receiver functions to Long Island. The Belmar property was sold various times, being the Ku Klux Klan headquarters for a while and the site of King's College. The U.S. Army bought the property in 1941 and named it Camp Evans. It is now the InfoAge Learning Center and well worth a visit.

So Now You Know!

Z60A KOSOVO LOGGED 98,450 CONTACTS

Before shutting down on March 12, Z60A in Kosovo had logged 98,450 contacts during its celebratory operations to hand out a new one to the madding crowd. The 30-day-long initial activation of the newest DXCC entity encountered 30,541 individual call signs in 174 DXCC entities. "Mission Goodwill Kosovo" expressed appreciation to the 28 operators from various countries near and far who turned out to handle the pileups. The Z60A logs will be uploaded to Logbook of The World (LoTW) soon, and QSL cards will be at the printer's next week.

From The ARRL Letter, March 15, 2018

GSARA RADIO BUILD PART II - JOIN US!



**Let's Build Another radio-a μ BitX!
New Rig: 10 Watts! All Bands!
CW and SSB!**

Home of Cy, K2CYS

Bring your tools and your soldering iron

Lunch will be provided

May 27th 10 AM

Buy the rig at www.hfsignals.com!

Please let Cy know you are coming at k2cys@arrl.net

Cy's wife, Stella, will provide lunch!

Radio equipment for sale

By Chris Van Der Stad

I attached a list of vintage ham radio equipment that was owned by my brother, the late WB2DSG. I have pictures of the equipment if anyone has an interest and I can bring individual pieces of equipment to the Monmouth County area if there is interest in seeing the equipment.

| List of Radio Equipment | |
|--|----------|
| Brand | Model # |
| 7704A Oscilloscope System A7704 Acquisition Unit | |
| 7704A Oscilloscope System D7704 Display Unit | |
| AUL Signal Generator | 6207-1 |
| Clarostat Mfg Co - Power Resistor Decade Box | 240-C |
| Denton Super Tuner | |
| Heathkit | SB-101 |
| Heathkit | SB-102 |
| Heathkit | SB-104 |
| Heathkit | SB-300 |
| Heathkit | SB-301 |
| Heathkit | SB-303 |
| Heathkit | SB-401 |
| Heathkit | SB-401 |
| Heathkit | SB-500 |
| Heathkit | SB-600 |
| Heathkit | SB-600 |
| Heathkit | SB-610 |
| Heathkit | SB-620 |
| Heathkit | SB-630 |
| Heathkit | SB-650 |
| Heathkit "Q" Meter | QM-1 |
| Heathkit Auto-Tune | |
| Heathkit Monitor Scope | HO-10 |
| HP Display | 182T |
| HP Oscillator (2) | 204C |
| HP SHF Signal Generator | 618C |
| HP Spectrum Analyzer .01-21GHz | 8559A |
| HP Sweep Oscillator | 3211A |
| Johnson Viking Match Box (2 parts) | |
| Kenpro Elevation-Azimuth Dual Controller | KR-5400 |
| Lafayette Six Meters | HA-460 |
| Loudenboomer Mark IIA | HT-45 |
| Measurements Corporation - Standard Signal Generator | Model 80 |

| | |
|--|----------|
| Polard Microwave Signal Generator 2000-4600MC | MSG-2R |
| Radio Speciality Mfg. Co. - FM Deviation Meter | |
| Realistic UHV-VHF Monitor - Patrolman | |
| SteppIR FluidMotion | |
| Wavetek Signal Generator Frequency 1-520 MHz | 3000 |
| Yaesu Musen V/U Transverter | FTV-707 |
| Yaesu V/U Transverter | FTV-901R |

If interested, please contact Chris at chris.vanderstadcpa@gmail.com

FROM *The Archives*

FIVE YEARS AGO

From the April 2013 Propagator: Cy Stanway, whose Canadian call is VE3IFS, got his General Class U.S. license with an assigned call of KD2DNV. He promptly got his vanity call of K2CYS and then immediately after that, his Extra. As in 2018, the first meeting in March 2013 was cancelled due to bad weather.

TEN YEARS AGO

From the April 2008 Propagator: Middletown RACES gave a one-day Technician class which resulted in 23 Techs who passed the exam at the end of the class. Frank, W2XYZ returned from a DX-pedition to Anguilla operating as VP2EFW (with Mike, KC2Q operating VP2MED). It was a lot of fun and quite easy.

FIFTEEN YEARS AGO

From the April 2003 Propagator: Marconi Chapter 138 of the QCWA is holding a dinner-dance at the Waterview Pavilion in Belmar on April 27. Music is by Joey Arminio & the Family consisting of Joe, K1SAX; Doreen, K2HLO; and Nick, KC2FAL. Frequencies were given for those wishing to monitor the Iraq war communications. Ray, W2NXG invited kids to his shack for Kid's Day in January and all had a good time.

TWENTY YEARS AGO

From the April 1998 Propagator: 16 members have volunteered to receive The Propagator by e-mail only, thus saving GSARA some printing and postage costs. Don Pingitore, formerly KC2BTF upgraded to Advanced and changed his call to KG2NV. Chapter 138 of the QCWA will hold

their annual awards banquet on May 3 at the Fort Monmouth Officers Club. There was an article giving the history of why the code speed for an amateur license was increased from 10 wpm to 13 WPM on June 3, 1936. Lowell Bellingham, W2HXJ became a silent key.

TWENTY-FIVE YEARS AGO

From the April 1993 Propagator: Jack Keating, WA2FVL (SK) wrote an interesting article called "Born-Again Ham about how he got back into amateur radio after a 10-year absence. All NJ automobile call letter license plates must be redone by filling out form PI-119 and submitting \$10. The QCWA annual banquet will be held on May 2 at the Fort Monmouth officers club. A Perkins restaurant was opened in Hazlet at Airport Plaza by Darryl Harven, WA2AYF (SK). Saturday luncheons are being held at Burger King in Middletown and at Roy Rogers in Shrewsbury. About 10 amateurs show up for each luncheon.

THIRTY YEARS AGO

From the April 1988 Propagator: There was quite a bit of coverage of the Transpolar Ski trek project. This was a privately organized expedition in March 1988 to ski from the top of the Soviet Union to the top of Canada crossing the North Pole. All communication was via amateur radio and the skier's position was relayed via Oscar 11 on 145.825 MHz. Many GSARA members monitored the satellite as did schools throughout the country.

Anyone with noise canceller experience?

Vince Rosati, KE2V, is looking for someone who has an MFJ 1026 or 1029 Noise Canceller (or similar) for a chat about the effectiveness of the device.

If so, please contact him at:
Vincent_Rosati@MSN.Com

Where are the meeting minutes?

Please go to this link to access the minutes at :
<http://www.gsara.club/meeting-minutes/>

INTRUDERS ON OUR BANDS



The International Amateur Radio Union Region 1 (IARU-R1) Monitoring System (IARUMS) reports that one of China's over-the-horizon radar (OTHR) installations has been causing interference in the Amateur Radio 7 MHz band. The IARUMS February newsletter reports on that intruder and others.

Other Top 5 intruders include a "single-letter beacon" transmitting either the letter "K" or the letter "T" on 7039.3 kHz. The source is believed to be in the Russian Pacific, Petropavlovsk-Kamchatsky. A Russian F1B teleprinter signal (RDL) has appeared on 7193 kHz, with an encrypted frequency-shift-keyed (50-baud) signal, originating in Kaliningrad. Authorities in Germany and Switzerland have filed official complaints.

A Russian orthogonal frequency-division multiplex OFDM 60 signal has been showing up on 14.235 MHz, covering nearly 3 kilohertz. It's said to be located in Moscow. Three Russian OFDM 60 signals were active at the same time on February 13. A Russian F1B signal has been observed on 14.308 MHz, 50 baud, 500 Hz shift, also reported to be in Moscow.

In the "miscellaneous or bad news" category, IARUMS Region 1 Coordinator Wolf Hadel, DK2OM, reports Spanish-speaking "fishermen" on 3560 kHz (USB), heard daily at 1600 UTC or later. These signals have been heard on other 80-meter frequencies. Broadcaster Radio Hargeisa in Somaliland continues to be reported on 7.120 MHz (AM) daily.

From The ARRL Letter, March 8, 2018

FUSION WORKSHOP AT OMARC

By Phil Festa, N2EDX

GSARA members who may be interested in Fusion/WIRES-X to the OMARC Radio Night on Wednesday March 28th. Radio Night is held from 6:00 to 9:00pm. I do not expect to start the workshop until 7:00 that evening. I expect the workshop to last about an hour in total time. Denis, K2NPT and I will present. This workshop is a introduction to Fusion technology, along with a demo of forward error correction, FEC. The attendees do not require a radio, only an interest in the topic.

Spring Lake Heights Fire Department
700 6th Ave
Spring Lake Heights, NJ 07762

Pix of GSARA Club Activities

Photos by Harry, KD2EJW



Club president Howard W2HTS, and Joe WA2JOE, discuss a number of upcoming events, including Field Day in “The Shack”.



Congratulations Michael Schiafone on your new Tech ticket!

So many activities! Come to all of them!

NOTES ON CALENDAR (see next page)

Large Call letters denote birthdays e.g. **KE2V** April 8. All times are EDST. Contests are listed in the April QST, p. 84.

April 2 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm

April 3 – **Old Barney VE Test Session** at 6:30 pm in Manahawkin. Contact Urb Le Jeune, WIUL at 609-296-5856 or urb@w2dec.com

April 3 – **Old Barney ARC Meeting** at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>

April 3 and every following Tuesday – **GSARA Net** on 147.045 PL=67 at 8:30 pm.

April 3 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

April 4 – **GSARA Program Meeting** at 7:30 pm at the Red Cross. The program features our own Art Olson, N2AJ0 outlining how we can make the club station accessible to the members via the internet and Denis Commette, K2NPR giving the details and cost of upgrading our repeater to the Fusion system. Refreshments will be served.

April 5 - **HCARC Meeting** 7 pm at Holiday City South Clubhouse in Toms River.

April 5 - **WIAW Qualifying Run** at 10 pm (10-40 wpm). See April 2018 QST page 97 and www.arrl.org/qualifying-run-schedule

April 6 and every Friday – **Lunch at the Blue Swan Diner** in Ocean at noon. Table at back left.

April 7 – **NNJ 5 Watt Challenge**, digital and voice from 3 pm to 9 pm. See <http://nnj.arrl.org/5wc>

April 7 – **North American SSB Sprint** from 8 pm to midnight. See <http://www.ssbsprint.com/rules>

April 9 – **144 MHz Sprint** all modes from 3 pm to 7 pm. See <http://www.sites.google.com/site/springvhfupsprints>

April 11 – **Holiday City VE Session** at 7 pm in Toms River. Contact is Larry Puccio, K2QDY at 732-349-2950 or e-mail at lpuccio1@comcast.net

April 12 – **JSARS meeting** in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.

April 14 – **OMARC Meeting** at 9:00 am at the Firehouse on 600 Sixth Ave. in Spring Lake Heights. Guests are always welcome.

April 15 – **Rookie Roundup, SSB** from 2 pm to 7:59 pm. See <http://www.arrl.org/rookie-roundup>

April 16 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm

April 17 – **222 MHz Sprint, all modes** from 3 pm to 7 pm. See <http://www.sites.google.com/springvhfupsprints>

April 18 – **GSARA Business Meeting** at 7:30 pm at the Red Cross in Tinton Falls. The. Refreshments will be served and guests are welcome.

April 19 - **WIAW Qualifying Run** at 4 pm (10-40 wpm). See April 2018 QST page 97 and <http://www.arrl.org/qualifying-run-schedule>

April 19– **JSARS VE Test Session** at 7:00 pm Riverview Park Recreation Bldg., Rt. 527 and Riverwood Drive in Toms River. Contact Ed Genoio, WA2NDA at 609-971-2792 or wa2nda@comcast.net.

April 21-22 – **China DX Contest, CW and SSB** from 2 am Saturday to 1:29 am Sunday. See <http://www.mulandxc.org/438>

April 25 – **432 MHz Sprint** from 3 pm to 7 pm. See <http://www.sites.google.com/site/springvhfupsprints>

April 27-29 – **10-10 Digital Contest** from 8:01 pm Friday to 7:59 pm Sunday. See <http://www.ten-ten.org>

April 28 – **GSARA VE Test Session** at 11 am at the Red Cross in Tinton Falls. See page 1.

APRIL 2018

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|-------------------------|-----------------------|--|------------------------------|--------------------------------|--|------------------------------------|
| 1 | 2 ARES/RACES 8 pm | 3 Old Barney ARC GSARA Net 8:30 QCWA News 9 PM | 4 GSARA Mtg | 5 CW Qual. Run HCARC Mtg | 6 Blue Swan lunch | 7 5 Watt Chal. NA SSB Sprint |
| 8 KE2V | 9 144 MHz Sprint | 10 GSARA Net 8:30 QCWA News 9 PM | 11 Hol. City VE | 12 JSARS Mtg. | 13 W2WX Blue Swan lunch | 14 OMARC Mtg |
| 15 Rookie Roundup | 16 ARES/RACES 8 pm | 17 222 MHz Sprint GSARA Net 8:30 QCWA News 9 PM | 18 GSARA Mtg | 19 CW Qual. Run JSARS VE | 20 Blue Swan lunch | 21 W2SHS China DX |
| 22 N2HGI China DX | 23 KD2EPA | 24 GSARA Net 8:30 QCWA News 9 PM | 25 W2OD 432 MHz Sprint | 26 | 27 Blue Swan lunch 10-10 Digital | 28 GSARA VE 10-10 Digital |
| 29 10-10 Digital | 30 K2RLF | | | | | |



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