



THE Propagator

Garden State Amateur Radio Association

8 Donner St.,
Holmdel, NJ 07733
Editor: Bob Buus, W2OD
Design: Cy Stanway, K2CYS



October 2017



From the Editor

Bob Buus W2OD

I just completed spending Sunday afternoon at the Sunnyside Rest Stop for the Twin Lights Bike Tour on September 24. This event is important to GSARA since the Tour operators make a generous donation to GSARA as a "Thank You" for our services. However, I was embarrassed by the fact that we could not produce enough operators to staff all of the seven rest stops. Howard, W2HTS spent most of his day operating the net control station. Andy, KB2VXA operated from the Sunnyside Rest Stop in the morning until I relieved him in the afternoon. Mike, AC2MB; Rem, K2REM; Chris, KD2OBV; Art, N2AJO and Denis, K2NPT staffed Rest Stops but I don't think they were all covered. Surely, we can do better than that!

There are two more events coming up in October – the Juvenile Diabetes walk on the morning of the 8th and the CROP walk on the afternoon of the 15th. Tom, N2VFK is

GSARA MEETINGS

The next GSARA meeting will be on Wednesday, October 4 at 7:30 PM at the Red Cross. The program will be presented by Joe Wilkes, WA2SFF who will talk about a scanning receiver using a Raspberry Pi controller and a touch screen (see p. 10). Don't miss it! Light refreshments will be served and guests are welcome.

The second meeting in October will be held on Wednesday, October 18 at 7:30 PM at the Red Cross. This will be a regular business meeting and a proposed change to the Constitution will be voted upon (see p.10). Refreshments will be served.

VE SESSION

The GSARA monthly VE (Volunteer Examiner) test session will be held at the Red Cross on Saturday, October 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 732-972-1397 or n3rb@arri.net.

From the Editor, continued:

coordinating radio volunteers for each of these events. Please contact him if you can help. Only three operators with HTs are needed for the Juvenile Diabetes walk but more are needed for the CROP walk with 5 or 6 rest stops and one or two SAG vehicles.

I was surprised at the actions taken at the September 20 meeting were the majority of members voted to eliminate the printed version of The Propagator. I fear I started this ruckus by suggesting that we increase the additional charge for mailed/paper Propagators from \$5 to \$10 or \$15 for the year 2018. This was based on the higher printing and postage costs associated with the larger and more toner-intensive Propagator. I fear that eliminating the paper copy altogether throws a few members who do not have e-mail under the bus insofar as they will have no access to The Propagator. I'd like to hear from those members affected by this change. Will you drop your membership in GSARA because of this? Can other arrangements be made? My phone number is 732-946-8615.

The discussion about dues at the September 20 meeting also brought up the proposal to not give a dues break to those who join GSARA after mid-year. This requires a change to our Constitution which will be voted on at the October 18 meeting.

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

73 de Bob, w2od@arrl.net

JIM GRIFFITHS, K2EI - GSARA MEMBER OF THE YEAR

GSARA members have voted Jim Griffiths, K2EI as member of the year for 2017. Jim made a major effort this year in erecting his large loop antenna for Field Day but also for encouraging newcomers to participate in Field Day operations. And it's not just this year. Jim has a long history of assisting GSARA at many past Field Days with his very effective large loop antennas.

A luncheon honoring Jim, K2EI as 2017 Member of the Year will be held on Saturday, October 28 at Zachary's Restaurant from 1:30 to 4 pm. Cost is \$25 per person and should be paid in advance to John King, KA2F (18 Carmel Way, Eatontown, NJ 07724). Members, Spouses, Family and Friends are all invited to attend this Gala event. Zachary's Restaurant is located at 71 Oceanport Ave, West Long Branch (on the corner of Oceanport Ave. and Highway 36).

Let's have a large turnout to honor Jim, K2EI for this well-deserved award.



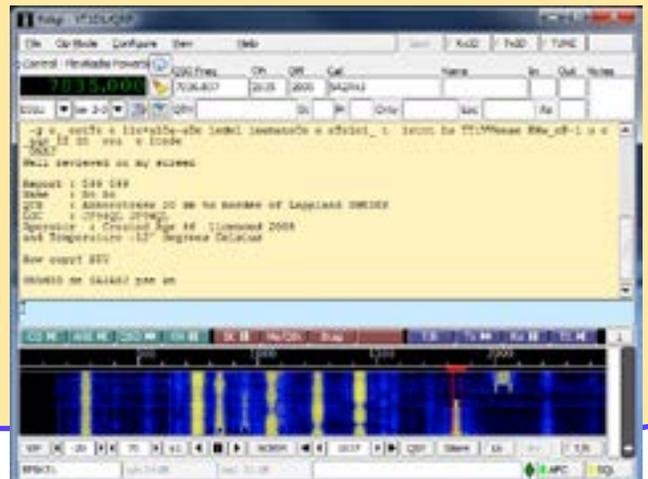
GSARA BLUE SWAN DINER INFORMAL GET TOGETHER

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. (Please be aware that each person is responsible for the cost of their own meal). This is a fun time to catch up and share stories.

LOOKING FOR BETA TESTERS

By Paul Newland, AD7I

As some of you know, I have designed a USB to rig interface to support all of the digital modes. It is expected to be published in QST in the future. I'm looking for people in the club (although it doesn't need to be restricted to club members) who would be interested in testing some of the more complex HF digital modes (Olivia, MFSK, MT63, etc), but do it on VHF simplex, 10M ground wave (if that works) or 80M (ground wave or NVIS). I'm also interested in trying out some of the auxiliary modes of FLdigi such as flamp (Amateur Multicast Protocol - file transfer program), flwrap (File encapsulation / compression) and flmsg - (Forms manager). If anyone would be interested in this please contact Paul at ad7i@ad7i.net. Thank you.



WELCOME TO GSARA

We welcome the following new members to GSARA

Welcome Mike Tortorella, W2IY from Middletown. Mike is a Professor who has been licensed since 1961 and holds an Extra class license. He is a life member of the ARRL and was previously a member of GSARA. He is interested in working DX on CW and is also on 2-meter FM. Other hobbies include writing, cycling, and piano.

Welcome Benett Rosen, AC2NI from West Orange. Benett is a Project Engineer licensed since 1976 and holds an Extra class license. He is interested in digital modes and software defined radios. He is also interested in photography.

Welcome Joe Wilkes, WA2SFF from Middletown. Joe is an Electrical Engineer from Bell Labs who has been licensed since 1961 and holds an Extra class license. He is interested in building radios, software defined radios and GNU radio. A life member of the ARRL, Joe was a past member of GSARA. Other interests include Robots, Photography, and Computers.

Welcome Jerry Gonsalves, KD2OBU from Ocean. Jerry just passed his Technician license in August and is not yet on the air. He is a Network Specialist.

Welcome Chris O'Donnell, KD2OBV from Colts Neck. Chris just passed his Technician test in August and is not yet on the air. He is a retired Commercial Truck Driver and is an Owner/Operator. He has been bird watching since 1974.

The addition of these five members bumps our total membership to 101 (see article on p. 7) All are included on the roster e-mailed to members on September 20.



MINUTES OF THE GSARA MEETINGS

MINUTES FROM SEPT. 6

By Bob Buus, W2OD, Secretary

President Howard Suffill, W2HTS called the meeting to order at 7:32 pm. There were 26 members and four guests present. The guests were Benett Rosen, AC2NI from West Orange; Joe Wilkes, WA2SFF from Middletown; Mike Tortorella, W2IY from Middletown and Chris O'Donnell, KD2OBV from Colts Neck. After the pledge to the flag, all present introduced themselves.

Old Business

Howard, W2HTS reviewed the GSARA activity at the Sea Girt lighthouse on August 19. He suggested that a donation of \$100 be made to the Sea Girt Lighthouse Society. A motion was made by Diana, KD2NAD and seconded by Art, N2AJO to donate \$100 to the Lighthouse. The motion passed unanimously.

New Members

An application for membership was received from Mike Tortorella, W2IY from Middletown. Mike is a Professor who has been licensed since 1961 and holds an Extra class license. He is a life member of the ARRL and was previously a member of GSARA. He is interested in working DX on CW and is also on 2-meter FM. Other hobbies include writing, cycling, and piano. An application for membership was received from Benett Rosen, AC2NI from West Orange. Benett is a Project Engineer

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Driver and is an Owner/Operator. He has been bird watching since 1974.

A motion was made by Chris, W2NQB and seconded by Art, W2NAZ to accept the above five members as active members of the GSARA. The motion passed unanimously. Bob, W2OD pointed out that with the addition of these 5 members, our membership roster now exceeds 100 members, the highest it's been for many years.

New Business

Because GSARA is not having a hamfest this Fall, John, KA2F and Howard, W2HTS suggested we acquire a table at the OMARC Hamfest on September 23 and try to sell some of our surplus equipment. It was agreed to do it so we need volunteers to staff the table at the Hamfest.

Announcement

Bob, W2OD donated the book "Arthur Collins, Radio Wizard" to the GSARA library. Mike, W2IY asked to be the first to take out the book to read. Bob, W2OD had recent copies of the DX QRZ bulletin donated by Bob, W2OKM and asked if anyone was interested in them. Cy, K2CYS took the copies. Bob, W2OD gave archive copies of the Propagator for the past 12+ years in PDF format to Cy for incorporation on the web site. (This has been completed and may be seen at the GSARA.club website). John, KA2F announced that there will be a book signing of his books on Saturday, September 16 at 1:00 pm at the Barnes &

Noble store in Eatontown.

Program

Art, N2AJO give an interesting presentation on the use of Joe Taylor digital modes available from the WSJT-X suite. He showed a video explaining how to use JT-65 for weak signal contacts. He then showed a video about the new, faster FT-8 mode also available. FT-8 is about 4 times faster than JT-65 but he recommended starting with JT-65 until your comfortable with it and can then move to the faster FT-8. Both modes permit DX contacts using 25 watts of power or less. Even though FT-8 is rather new, there is a lot of activity on that mode about 65 kHz above the bottom of the HF bands.



Close

The door prize of \$27 was won by Alan, W2NIR. There being no further business, a motion was made by Art, W2NAZ to adjourn the meeting which was closed at 8:59 pm.

MINUTES FROM SEPT. 20

By Bob Buus, W2OD, Secretary

The meeting was called to order by President Howard Suffill, W2HTS at 7:32 pm. There were 19 members and one guest present. The guest was George Wilner, K2ONP from Wall. After the pledge to the flag, all present introduced

themselves. Howard, W2HTS has been making lots of contacts using FT-8. John, KA2F finds FT-8 rather boring. John also reminded members to reserve a place at the GSARA Ham of the Year Luncheon on October 28. Rem, K2REM has been busy moving to a new shop. Jim, K2EI has been busy getting a station set up for his licensed daughter in Vermont. Art, N2AJO is enjoying FT-8 operation. Rich, N2SMV is getting ready for SET on October 7. John, KB2MAB has found that all of the back-up batteries of his old equipment are dead and must be replaced. Joe, KB2FSH has been helping his son set up his station in New York. Mike, AC2MB is getting his 80/40 antenna ready.

needed at the Hamfest tables to sell the equipment.

New Business

Bob, W2OD reviewed his printing costs for the Propagator which have risen significantly as has the postage. The cost to GSARA to print and mail the Propagator is estimated to be about \$15 in 2017 due to the added pages and higher print density due to colored backgrounds on many pages. He proposed increasing the added cost to those members wanting a printed copy mailed to them to either \$10 or \$15. Instead, a motion was made by Denis, K2NPT and seconded by Mike, AA2MB to discontinue providing paper copies of the Propagator starting with the January 2018 issue. The motion passed with only 2 or 3 dissenting votes.

Art, N2AJO then suggested that we eliminate the dues break for those joining GSARA later in the year and make it a straight \$15 for the year. This would require a change to the Constitution which Art will pursue.

Howard, W2HTS appointed a nominating committee to propose a slate of candidates to run for office for 2018. The committee consists of Art, N2AJO, John, KC2YWL, and Denis, K2NPT. They will report to the membership on the October 18 meeting.

Public Service

Howard, W2HTS is looking for help in providing 2-meter communications for the Twin Lights Bike Tour on September 24. We are asked to staff each rest stop located at Sandy Hook, Oceanport, Neptune, Allaire, Freehold, Colts Neck and Lincroft. A significant donation is

Secretary's Report

A motion was made by Joe, W2KQ and seconded by Jim, K2EI to accept the minutes of the September 6 meeting as they will be published in the October Propagator. The motion passed unanimously.



Treasurer's Report

Treasurer John, KA2F gave the Treasurer's report. A motion was made by Tom, N2VFK and seconded by Ralph, KC2YNL to accept the report as read. The motion passed unanimously.

Old Business

John, KA2F is looking for more help to get GSARA equipment for sale from the Red Cross to the OMARC Hamfest on September 23. Art, N2AJO offer to help with his truck. Other helpers are



made to GSARA for our efforts. Tom, N2VFK is looking for 3 volunteers to help with the Juvenile Diabetes Walk on October 8. Tom, N2VFK is looking for operators to staff the 6 rest stops for the CROP walk on October 15.

Program

Rich, N2SMV outlined his plans for the upcoming Simulated Emergency Test (SET) on October 7. It will be a simulated wildfire in western Monmouth County with easterly winds bringing smoke and fire east. Lance, N2UUS is coordinating this activity and the GSARA repeater will be used to pass voice traffic. All are encouraged to participate and send Drill messages. Remember

to insert "Drill Drill" at the beginning and end of each message.

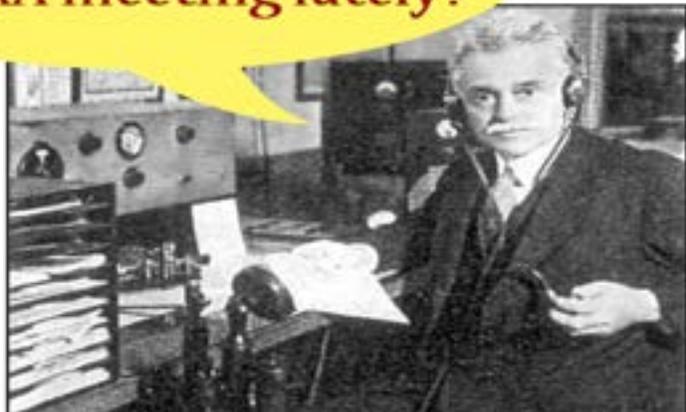
Close

The door prize of \$17 was won by Ralph, KC2YNL. There being no further business, a motion was made by Rem, K2REM and seconded by Joe, KB2FSH to adjourn the meeting which was closed at 8:54 pm.

IMPORTANT ANNOUNCEMENT

**BEGINNING JANUARY 2018, THE GSARA PROPAGATOR
WILL BE AVAILABLE ONLY BY EMAIL OR ONLINE**

**Have you been to a
GSARA meeting lately?**





OUTGOING QSL CARDS

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?

PUBLIC SERVICE EVENTS

By Tom Cosgrove, N2VFK

The last two Public Service events for 2017 are coming up in October. They are:

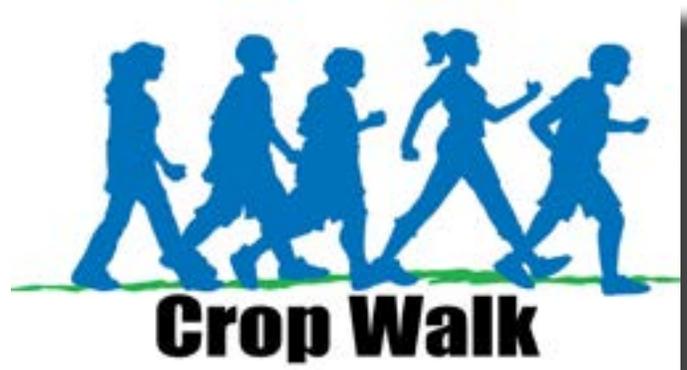
The Juvenile Diabetes Research Foundation (JDRF) walk in Avon is Sunday, 8 October in the morning. We will use 2-meter simplex for communications. We only need 3 operators to run this (4-5 would allow operators to take personal reliefs!)

Last year we didn't do this event because we had only TWO! Let's not do that again, please.

Also coming up is the Red Bank Area CROP Walk on Sunday, 15 October in the afternoon. We will communicate through the W2GSA repeater on two meters. We need about 8 volunteer operators to staff all of the rest stops and one or two SAG vehicles

If you can help with either or both events, please contact Tom Cosgrove, N2VFK at n2vfk@verizon.net or 732-842-6020.

Thanks.



OCTOBER 4 PROGRAM

The program for the October 4 GSARA meeting will be presented by Joe Wilkes, WA2SFF and is entitled "50 MHz-2 GHz Radio Scanner Using Raspberry Pi." Joe got interested in electronics in JHS and got his ham radio license in HS. He earned his PhD in the area of wireless communications. He worked for Bell Labs and Bellcore for 32 years, mostly on wireless. He retired in 2004 and began working

for a government contractor supporting Ft. Monmouth. In 2011 he finalized his retirement. Since



then, he has been building Arduino and Raspberry Pi projects at a maker space in Wall Township. The talk is based on one of the projects he designed and built about 2 years ago.

Joe is a life member of the ARRL, and a Fellow of the IEEE for his work on cell phone technology. He has co-authored three textbooks on cell phone technology. This talk will show how a Software Defined Radio (SDR) can be controlled by the low-cost Raspberry Pi controller and a touch screen. Don't miss this interesting talk.

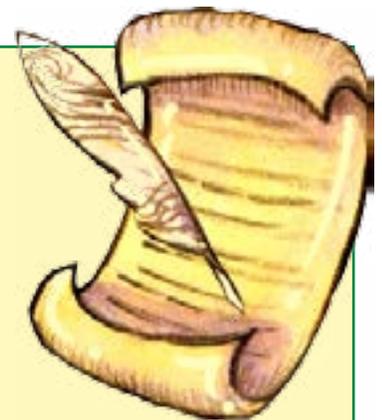
PROPOSED CONSTITUTION CHANGE

By Art Olsen, N2AJ0

Most organizations that I am aware of do not reduce their dues for those joining in the last half of the year. Therefore, I suggest the following change to the GSARA Constitution:

Article V – Dues, Section 1, paragraph D (which reads “D. New members enrolled between June 30 and December 1 will be assessed at one-half (1/2) the yearly rate.”) be deleted and paragraph E (which reads: “New members enrolled during December will pay the full yearly dues applicable to the following year.”) be relabeled paragraph D. This will make the annual dues a flat \$15 regardless of when in the year you join GSARA. The only exception is whenif you join in December, the \$15 dues payment will be for the following year’s dues.

Secretary’s Note: This proposed change will be voted upon at the October 18 business meeting providing a quorum is present. If two-thirds of the members present at the meeting approve the change, it will be implemented. Otherwise, the Constitution will remain as it is.





You're Invited!

To All GSARA Events and Meetings

NOW YOU KNOW

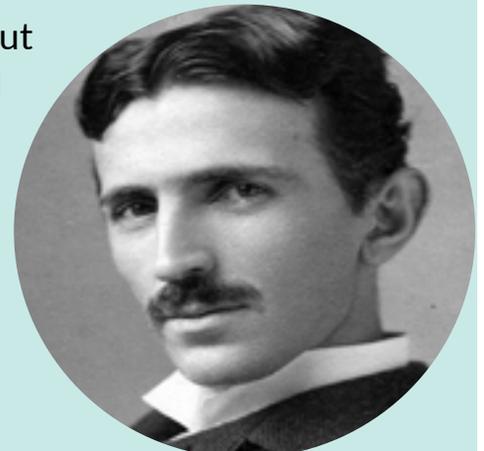
NIKOLA TESLA

By Bob Buus, W2OD

Nikola Tesla was born in Croatia on July 10, 1856. He was an inquisitive child and liked to build things. Although his father wanted Nikola to become an Orthodox priest, Nikola was more interested in mathematics and physics. His father finally permitted him to study at the Joanncum Polytechnic School in Graz, Austria where his interests shifted from mathematics and physics to electricity. He was particularly fascinated about the problem of sparking commutators on dc motors and thought the problem could be solved by using alternating current.

He worked very hard at college and outperformed all of the other students. But in his second year, he began carousing, playing cards and gambling.

He dropped out of college and was driving his family to poverty through his gambling addiction.



By sheer willpower, Nikola overcame his wayward ways and found a job as a draftsman in the Budapest telegraph office. In his spare time, he continued to think about rotating magnetic fields that could be produced by alternating current.

In 1882, Tesla got a job in Paris with the Societe Electrique Edison and acquired practical engineering knowledge about dynamos and motors. While at Edison, Tesla invented the multi-phase ac motor but no one at Edison was particularly interested. When his talents were not appreciated, Tesla decided to come to America and

seek employment from Edison himself so he sailed to New York in June, 1884. Two days after arriving in New York, Tesla was hired by Edison for \$18 per week.

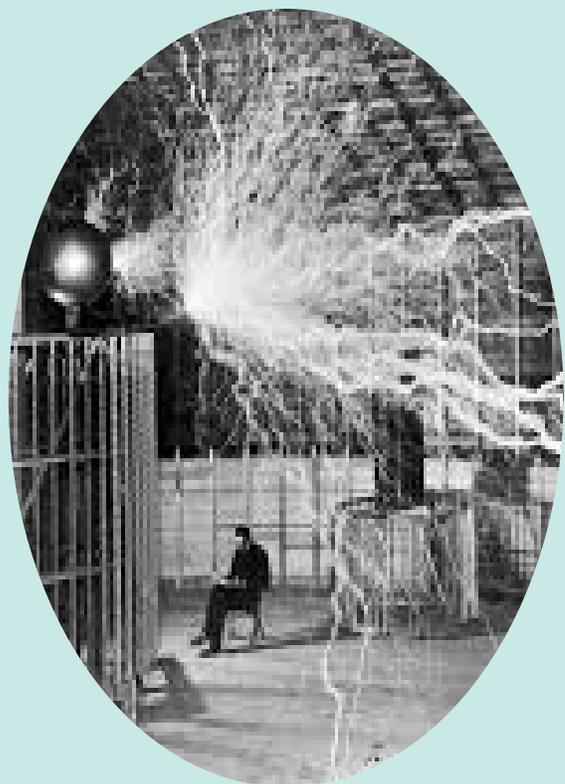
Tesla and Edison did not get along well and in less than six months, Tesla had resigned (even though Edison offered to bump his salary by \$10 to \$28 per week). Tesla had trouble finding another job and spent several months digging ditches in New York City for Edison's electric wires.

A group of investors agreed to finance Tesla in the formation of the Tesla Electric Light Company. Tesla then completed his designs of AC motors, and generators and filed 7 patents in late 1887 that covered all aspects of AC power use and distribution. George Westinghouse became aware of this work and signed a patent royalty contract with Tesla giving Tesla \$2.50 per horsepower of installed AC capacity. This would have made Tesla very wealthy but Westinghouse had to ask Tesla to tear up the contract when financiers refused to finance Westinghouse AC development unless that contract was cancelled. Tesla agreed to since he felt Westinghouse was a very good friend of his.

War was waged for several years between Edison and Tesla/Westinghouse over DC versus AC current. Tesla finally won with a huge installation of AC generators at Niagara Falls, NY.

In 1891, Tesla patented his Tesla coil which could generate high frequency damped oscillations at very high voltages. This was followed by several other inventions that used electromagnetic waves to remotely control a boat and to wirelessly produce light in bulbs. It could be argued that Tesla was the inventor of radio. This was contested in numerous lawsuits between Tesla, Marconi and many others. Finally, after over 40 years of litigation and appeals, the U.S. Supreme Court ruled in 1943 that Tesla was indeed the inventor of radio. Not that it made much difference at that time since both Marconi and Tesla had died and all patent rights had expired.

So now you know.





FIVE YEARS AGO

From the October 2012 Propagator: Saturday, October 13 was the first VE test session sponsored by GSARA at the Red Cross at 11 am. The Asbury Park repeater was officially turned over to GSARA. It was the 100th anniversary of Edwin Armstrong's invention of the regenerative receiver on September 22, 1912.

TEN YEARS AGO

From the October 2007 Propagator: Longtime GSARA member Harold Clanton, WB2CJE became a silent key on September 1, 2007. His widow, Laura, N2HGI is still active on our GSARA net. Al Ward, W5LUA in Texas was the first person to Work All States on 1296 MHz using moonbounce. There was a tribute to Walter Cronkite, KB2BSD written by Bill Pasternak, WA6ITF.

FIFTEEN YEARS AGO

From the October 2002 Propagator: Brad Dargue, KT2U became a silent key. A 1923 QSL card from 1AW sold on e-bay to \$2125 – a new record. The program at the October 2 meeting featured Gil Harris, WB2YAB demonstrating his Tesla coil.

TWENTY YEARS AGO

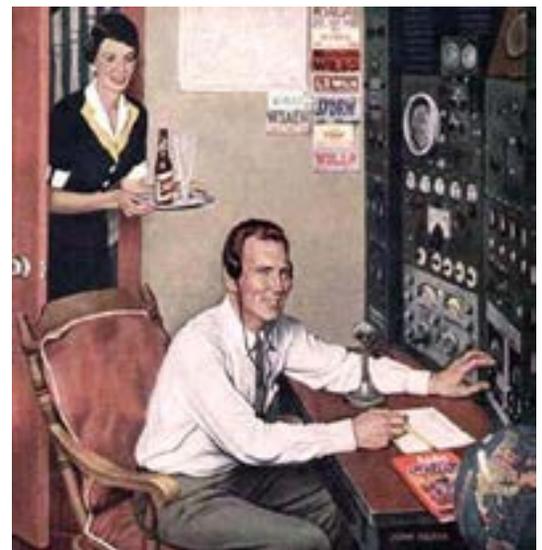
From the October 1997 Propagator: The Shore Area Hamfest and ARRL New Jersey State Convention will be held at Brookdale College on October 12. New RF safety requirements for amateurs will go into effect by the end of the year. A pirate FM station in Howell calling itself WZVU was shut down by the FCC.

TWENTY-FIVE YEARS AGO

From the October 1992 Propagator: Steve Mendelsohn, WA2DHF (later W2ML-SK) gave a talk on September 16 and was presented with honorary membership to GSARA. The program for October 7 featured Dom Cafro, KB2CMF (now N2DOM) talking about packet radio. The October 21 meeting featured Marv Bernstein, W2PAT talking about the 500 foot tower just erected at the UPS site. The Shore Area Hamfest was at Allaire Airport on October 11.

THIRTY YEARS AGO

From the October 1987 Propagator: Emory Wall, K2YWL (SK) joined GSARA. Dom Cafro, KB2CMF (now N2DOM) upgraded to General Class. The October program featured Tony, W2GUM (SK) and his brother Vic, W2VC (SK) talking about 10 GHz operation. Al Allen, K2LG (SK) had an article over 5 pages long about the fundamentals of antennas. Members were urged to write to their congressmen opposing a proposal to give the 220-222 MHz band to commercial interests. It was stopped then but reared its ugly head again later when we indeed did lose the 2 MHz segment of the band.



In the not-so-good old days when the wife would bring the husband a beer while he was on the radio! My, how things have changed!

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www.w2gsa.org

GSARA 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.

In the 4 sessions in September we had 42 check-ins for an average of 10.5 per session. The following 21 members checked into this net (number of check-ins in parenthesis):

N2HGI (4), W2MJP (4), W2OD (4), KA2F (3), AC2MB (3), K2NPT (3), N2GT (2), AD7I (2), W2LAF (2), W2NAZ (2), KD2OBV (2), KC2YNL (2), N2AJ0 (1), N2BMK (1), N2JFL (1), KB2MAB (1), KD2NAD (1), W2N-QB (1), KD2NYL (1), K2RLF (1) and W2ZIM (1).

Mark your calendar so you remember to participate.

The more participation, the more fun!



NOTES ON CALENDAR (see next page)

Large Call letters denote birthdays e.g. **KD2NAD** October 5. All times are EDST. Contests are listed in the October QST, p. 94.

October 2- **WIAW Qualifying Run** at 10 pm (40-10 wpm). See October 2017 QST page 103 and www.arrl.org/qualifying-run-schedule

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

October 3 – **Old Barney VE Test Session** at 6:30 pm in Manahawkin. Contact Urb Le Jeune, W1UL at 609-296-5856 or urb@w2dec.com

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

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

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

October 4 – **GSARA Program Meeting** at 7:30 pm at the Red Cross. The program by Art, N2AJO will be about JT65 and other digital modes. Refreshments will be served.

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

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

October 7-8 – **Oceania DX Contest, Phone** from 4 am Saturday to 4 am Sunday. See <http://www.oceaniadxcontest.com>

October 8 – **Juvenile Diabetes Walk at Avon**. Sunday morning on 2-meter simplex. Volunteer to Tom, N2VFK, 732-842-6020 or n2vfk@verizon.net

October 9-10 – **10-10 Day Sprint, all modes** from 8:01 pm Monday to 7:59 pm Tuesday. See <http://www.ten-ten.org>

October 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

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

October 14-15 – **Oceania DX Contest, Phone** from 4 am Saturday to 4 am Sunday. See <http://www.oceaniadxcontest.com>

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

October 15 – **CROP Walk in Red Bank**. Sunday afternoon using 2-meters through W2GSA repeater. Volunteer to Tom, N2VFK, 732-842-6020 or n2vfk@verizon.net

October 16 – **Telephone Pioneers QSO Party, all modes, all bands** from 3 pm to 11 pm. See <http://www.tpqso.com>

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

October 18 – **WIAW Qualifying Run** at 4 pm (40-10 wpm). See October 2017 QST page 103 and <http://www.arrl.org/qualifying-run-schedule>

October 18 – **GSARA Meeting** at 7:30 pm at the Red Cross in Tinton Falls. Regular business meeting.

October 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.

October 27-29 – **CQ Worldwide DX Contest, SSB** from 8 pm Friday to 7:59 pm Sunday. See <http://www.cqww.com/rules/htm>

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

OCTOBER 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 ARES/RACES 8 pm CW Qual. Run	3 Old Barney ARC GSARA Net 8:30 QCWA News 9 PM	4 GSARA Mtg	5 KD2NAD HCARC Mtg	6 Blue Swan lunch	7 Oceania DX
8 Oceania DX Juven. Diabetes	9 10-10 Day Sprint	10 KC1FAK 10-10 Day Sprint GSARA Net 8:30 QCWA News 9 PM	11 Hol. City VE	12 JSARS Mtg	13 Blue Swan lunch	14 OMARC Mtg Oceania DX W2NAC
15 Oceania DX CROP Walk	16 Tel. Pioneers ARES/RACES 8 pm	17 GSARA Net 8:30 QCWA News 9 PM	18 Ronan Downie CW Qual. Run GSARA Mtg	19 W2NIR JSARS VE.	20 Blue Swan lunch	21
22	23 W2NAZ	24 GSARA Net 8:30 QCWA News 9 PM	25	26	27 Blue Swan lunch CQ WW DX SSB	28 GSARA VE CQ WW DX SSB
29 CQ WW DX SSB	30	31 GSARA Net 8:30 QCWA News 9 PM				



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First Class