



THE PROPAGATOR

8 Donner St.
Holmdel, NJ 07733
Editor: Bob Buus, W2OD

AUGUST 2016

UPCOMING GSARA MEETINGS

The next GSARA meeting will be on **Wednesday, August 3 at 7:30 PM** at the Red Cross. The program is unknown at press time but come to the meeting and be surprised! This is also a good opportunity to tell fellow club members what you are working on. The variety of activities is amazing. Light refreshments will be served and guests are welcome.

The second meeting in August will be held on **Wednesday, August 17 at 7:30 PM** at the Red Cross. This will be a regular business meeting. Refreshments will be served.

GSARA NET 8:30 PM TUESDAYS

GSARA members meet on the Asbury Park repeater every Tuesday at 8:30 pm. In the four sessions in July we had 20 check-ins for an average of 5 per session. The following 10 members checked into this net at least once (number of check-ins in parenthesis):

W2OD (4), KA2F (3), N2HGI (3), K2ARK (2), N2JFL (2), WB2RPW (2), N2BMK (1), KD2EPA (1), W2HAM (1), and W2LAF (1).

Mark your calendar so you remember to participate. The more participation, the more fun!

VE TEST SESSION AUGUST 27

The GSARA monthly test session will be held at the Red Cross on Saturday, August 27 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@arrl.net.

FALL HAMFEST SEPTEMBER 18

Mark your calendars now for the GSARA Fall Hamfest coming Sunday, September 18, 2016. It will be in the same location as previous years – the MOESC parking lot on the corner of Tornillo Way and Shafto Road in Tinton Falls. Vendors can set up at 7 am with no charge for the first space with purchase of a \$5 per person admission ticket. We open to buyers at 8 am with \$5 admission per person.

A VE test session starts at 11 am. Food and hot and cold beverages are available for sale. There will be QSL card checking as well as 50/50s and door prizes.

For additional information and pre-registration contact Rem Hunnewell, K2REM at 732-889-6692 or e-mail to HAMFEST@gardenstateara.org or visit <http://www.gardenstateara.org/hamfest> for more information.

OPERATING ETHICS FOR AMATEURS

The book, "Ethics and Operating Procedures for the Radio Amateur" by John, ON4UN and Mark, ON4WW is available at no charge at www.hamradio-operating-ethics.org. Bob, W2OD has printed out all 68 pages and put them in a loose leaf binder that is now available in the GSARA library for members to borrow. The book is highly recommended for all amateurs from newcomers to old-timers.

NEW PAGE ON GSARA WEBSITE

We are starting a new page on the club website. We would love to have a picture of you engaging in your favorite ham radio activity or your latest big project. Take a picture with you in it or not, if you wish, and a full description of what you are doing. We will feature it in the new club page. Send it to me, k2cys@arrl.net.

GSARA OFFICERS

| | | | |
|------------------|-------|---------------------|----------|
| President | W2HTS | Howard Suffill | 460-1885 |
| Vice Pres. | K2REM | Rem Hunnewell | 889-6692 |
| Secretary | W2OD | Bob Buus | 946-8615 |
| Treasurer | KA2F | John King | 942-7705 |
| Engineer | W2EPD | George Graulich | 255-7916 |
| Webmaster | K2CYS | Cy Stanway | 768-7773 |
| Publicity | Open | | |
| Repeater | N2LXM | Jeff Harshman | 922-0816 |
| Radio Room Phone | | 732-493-9100, X1252 | |
| Trustees | W2KQ | Joe Dreifuss | 493-4236 |
| | W2OD | Bob Buus | 946-8615 |
| | W2HAM | Lou Russo | 842-6431 |

FRIDAY BLUE SWAN LUNCHEONS

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.

PATCHES

We have GSARA patches available at all meetings and they cost \$3.

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). Ray, WA1FFT 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?

PROPAGATOR NOW ON THE WEB

The *Propagator* is available as a PDF file at:

<http://www.gardenstateara.org>

Click on "The Propagator" and then select the month you want.

GSARA HOMEPAGE

<http://www.gardenstateara.org>

HUDSON DIVISION HOME PAGE

<http://www.hudson.arrl.org>

EDITOR'S NOTES

Rem, K2REM is actively planning our Fall Hamfest on Sunday, September 18 at our usual site (see page 1). By not charging vendors for the first tailgate space (except for the \$5 admission), we should have a large number of vendors and thus a great variety of goodies for sale. Hopefully, this will attract a good turnout of buyers and make the Hamfest a success as it was in the spring. Plan to attend and to help out if you can. Let's make this one bigger than ever!

Cy has added a page on our web site to show members engaging in some interesting amateur radio activity (see page 1). Please consider submitting an entry if you haven't done so already.

The program for the August 3 meeting is unknown as of press time. The original plan was to get Chris from the Red Cross to make a presentation and if he wasn't available, I would be prepared to give the talk on phone operating ethics and procedures which was originally scheduled for the July 6 meeting. Then I learned that my son and granddaughter will be visiting Tuesday through Saturday and my son will be on a business trip Wednesday and not return until Wednesday evening. That puts my wife and I in charge of sitting for our 8-year old granddaughter all day and most of the evening Wednesday. Trust me, it's a two-person job. So, I won't be at the meeting and thus unable to make the presentation. Meanwhile, Howard, W2HTS has been unable to contact Chris and he suspects Chris might be out of town working some disaster. Hence, the August 3 program is still up in the air.

For the last two years, attendance at Dayton has exceeded 25,000 (see page 5). While not quite up to the record levels seen in the 1990s, it's still a respectable attendance figure. All who attend think it's plenty big enough.

Chris, W2NQB sent me a number of Field Day pictures that he took. I have included 5 of them on page 6. Thanks, Chris for taking and sending them.

As always, I appreciate feedback or material for *The Propagator*. The deadline for the September issue is August 15.

73 de Bob, w2od@arrl.net

MINUTES OF JULY 6 MEETING

By Bob Buus, W2OD, Secretary

President Howard Suffill, W2HTS was absent as was Vice President Rem, K2REM so Treasurer John, KA2F called the meeting to order at 7:36 pm. There were only 8 members present so we did not have a quorum to conduct official business. After the pledge to the flag, all present introduced themselves and commented on recent amateur radio activities.

Health and Welfare

Bob, W2OD reported that Ralph, KC2YNL is not doing too well. We will keep him in our prayers.

Field Day

John, KA2F reported that we spent a total of \$210.72 on food for Field Day. Since this expenditure was already authorized, no further action was necessary.

Joe, W2KQ reported that we had difficulty in getting enough operators to support the 3 transmitters. Just a few signed up in advance for a scheduled slot. He proposed that next year we should not determine how many transmitters to run until after sign-up sheets are available and adjust the number of transmitters based on the number of operators who have signed up in advance. It was pointed out that we can always start out small and add more transmitters if a lot of unscheduled operators show up.

Joe, W2KQ also thought that we might consider actually going out in the Field someplace for Field Day. It might make it more interesting for more operators.

John, KA2F suggested that we have a transmitter capable of operating the digital modes RTTY and PSK31 since a number of members are familiar with those modes.

Joe, W2KQ extended his thanks to the many members who participated in this Field Day in spite of difficult propagation conditions. In particular, we all thank Jim, K2EI for providing us two excellent antennas and taking responsibility for putting them up and taking them down. Also thanks to Arnold, AB2N who spent nearly 2 hours operating CW in such an efficient manner. Finally, we thank Gary, WB2RPW for providing the excellent dessert for the Saturday night meal.

Announcement

John, KA2F reported that the 13 Colonies operating event is wrapping up. He is still looking for Rohde Island. He had to go to 20 meters to pick up New Jersey.

Bob, W2OD had copies of the latest Roster available.

Program

Although Bob, W2OD was ready to present the program on Phone Operating Ethics, it was felt that with so few members present, it would be better to postpone the presentation until a future meeting.

Bob, W2OD had printed up the 68-page book about operating ethics and passed it around the room prior to donating it to the GSARA library where it is available for loan.

Close

There being no further business, a motion was made by John, KA2F and seconded by Art, N2AJ0 to adjourn the meeting which was closed at 8:40 pm.

MINUTES OF JULY 20 MEETING

By Bob Buus, W2OD, Secretary

President Howard Suffill, W2HTS called the meeting to order at 7:30 PM at the Red Cross. There were 18 members present. After the pledge to the flag, all present introduced themselves and briefly described their recent amateur radio activities. John, KA2F reported successfully adding 20 meters to his HW-16. Ray, WA1FFT and Len, WA1PCY both reported working all 13 colonies. Bob, W2OD warned that the LED shop light on sale at Costco radiates enough energy in the HF bands to noticeably increase the noise floor.

Health and Welfare

Bob, W2OD reported that John Krieg, K2ZGF became a silent key on July 6 at the age of 87. He lived in Atlantic Highlands since 1962 and was a chemist for Coca-Cola in Linden and then Tetley Tea in Morris Plains retiring in 1995 after 43 years of service. He was a member of the Marconi Chapter 138 of the QCWA. He is survived by his wife Clarie; 2 daughters and a son.

All funeral services are private. A moment of silence was observed for John, K2ZGF.

Syd, KG2CM reported that Matt Bregoff, W2AOJ is having heart problems and going in for heart surgery. Bob, W2OD will notify Cy, K2CYS so a card can be sent on behalf of GSARA.

Bob, W2OD reported that Ralph, KC2YNL checked into the Tuesday net but his voice has changed and he is not doing very well.

Secretary's Report

A motion was made by Joe, W2KQ and seconded by Marty, N2BMK to accept the minutes of the last meeting as they will be published in the August Propagator. The motion passed unanimously.

Bob, W2OD read a letter composed by Len, WA1PCY to be sent to the Two River Times to commend them for the fine article published about GSARA participation on Field Day. A motion was made to send the letter as written and the motion passed unanimously.

Treasurer's Report

Treasurer John King, KA2F gave the Treasurer's report. A motion was made by Hunter Suffill and seconded by Rem, K2REM to accept the Treasurer's report. The motion passed unanimously.

Hamfest Committee

Rem, K2REM reported that the fall Hamfest will be on Sunday, September 18 at our usual location at the MOESC parking lot. He had 1000 flyers printed at no cost to GSARA and encouraged members attending other hamfests to take flyers for distribution. Rem reported that we will not arrange to have a food truck.

A motion was made by Rem, K2REM and seconded by John, KC2YWL to authorize \$300 payment to MOESC for the use of facilities for the Hamfest. The motion passed unanimously.

A motion was made by Hunter and seconded by Joe, W2KQ to authorize up to \$500 for miscellaneous Hamfest expense. The motion passed unanimously.

Old Business

John, KA2F showed the certificate that he had printed making Ralph, KC2YNL an Honorary

Life Member of GSARA. President Howard, W2HTS and Secretary Bob, W2OD signed the certificate so it is ready to be presented to Ralph at his home. A motion was made and seconded to authorize \$10 to pay for the frame for the certificate. The motion passed unanimously.

New Business

Art, N2AJO asked for advice regarding a solar powered station. Father Dave, KD2KOA is thinking of setting up such a station for emergency use. To avoid complication, it was suggested to use a 12 volt system with a solar panel charging a 12 volt battery. A charge controller is required to keep from overcharging the battery on sunny days. The ampere hour capacity depends on the power requirements of the amateur radio gear.

Announcements

Both Ray, KA1FFT and Len, WA1PCY worked all 13 colonies and are awaiting confirming QSL cards. Congratulations.

Marty, N2BMK is having his house in Little Silver raised about 4 feet and he brought in pictures to show the progress. It is quite an undertaking!

The radio room at the Red Cross will be open next Saturday starting at 7:30 am.

Close

The door prize of \$17.50 was won by Syd, KG2CM. There being no further business, a motion was made by Hunter and seconded by Marty, N2BMK to close the meeting which was adjourned at 8:27 pm.

JOHN KRIEG, K2ZGF - SK

John W. Krieg, K2ZGF of Atlantic Highlands, NJ entered into eternal life on Wednesday, July 6, 2016 at Monmouth Medical Center, Long Branch, NJ. He was 87. Born in Newark, he resided in Middletown before moving to Atlantic Highlands in 1962. Mr. Krieg was a chemist for the Coca-Cola Bottling Co. in Linden, NJ and then for the Tetley Tea Co. in Morris Plains, NJ retiring in 1995 after 43 years of service. He received his bachelor degree from Lebanon Valley College in 1949 and was a veteran of the Korean War serving in the US Army.

John has been a licensed amateur radio operator since 1957 and held a General class license. He was a member of the Marconi Chapter 138 of the QCWA and a regular attendee at the monthly luncheons held at Howard Johnson's and later the Middletown Pancake House. Mr. Krieg was member of the Westminster Presbyterian Church in Middletown where he served as a former Deacon. He was also a member of the Monmouth Lodge #172 F&AM and the Eastern Star #251 both of Atlantic Highlands, a member of the American Legion Post #338, Leonardo and was active with the Boy Scout Troop at the Belford Methodist Church.

He is survived by his wife, Clarie Caskey Krieg, 2 daughters, and a son. Also surviving are 2 brothers and 8 grandchildren. All services are private and at the convenience of the family. Posten's Funeral Home, Atlantic Highlands, NJ is in charge of arrangements.

RFI FROM COSTCO LED SHOP LIGHT

By Bob Buus, W2OD

During the month of July, Costco was selling their LED shop light for only \$24 (regularly \$30). This is similar to the classic 48" shop light using 2 40-watt fluorescent bulbs but it only consumes 38 watts and has a 50,000 hour lifetime. Add the instant-on characteristic of LEDs and no hum from a ballast and I decided to buy it.

Upon unpacking it, there was a notice that it met Part 15 Class B radiation requirements but then a paragraph of things to try if it causes interference to radio or TV. So, I put the fixture in the radio shack and listened for any noise on the radio. At VHF and UHF, there was no difference in the noise floor whether the light was on or off – good news. But on 20 through 10 meters, the noise floor increased about a half to one S unit when the light was turned on. Below 20 meters, the natural noise floor was high enough to not be affected by the light turning on.

To further evaluate the noise from the light, I disconnected the antenna from the rig and substituted a wire stub going from the antenna jack and running parallel to the light. Now the noise floor in the radio was much lower so turning on the light caused the noise to increase a few S units on all bands from 160 through 10 meters.

The noise seems broadband and I did not find any specific spikes at any particular frequency.

The bottom line is I would not recommend using this light in your radio shack. In fact, if you are looking for weak signals on the HF bands, you should make sure that this light is not being used anywhere in your house. On VHF and UHF, this light should not cause any problem. I plan to use the unit I purchased in a dark corner of the basement which is not illuminated when I am operating the radio.

DAYTON ATTENDANCE TOPS 25000

Given the level of enthusiasm at the 2016 running of Dayton [Hamvention®](#) in mid-May, attendance may have seemed up, but for all intents and purposes, it held steady at 25,364 visitors. That figure was down only slightly from the 25,621 attendees reported for 2015, but above the 25,000 mark for the second year in a row. For those keeping track, in 2014 the official count was 24,873 visitors, and attendance in 2013 was 24,542.

Hamvention attendance peaked in 1993 at 33,669, before the 1996 change in date from April to May. While attendance has fluctuated over the years, Hamvention has grown to international proportions, attracting members of the worldwide Amateur Radio community each spring.

The Dayton Amateur Radio Association ([DARA](#)) has sponsored Hamvention since 1952. Originally called the Southwestern Ohio Hamvention, the inaugural event, held in March in downtown Dayton, attracted 600 attendees -- twice as many as had been predicted. Today it is the world's largest Amateur Radio gathering.

DARA now is counting down the days to the next Hamvention on May 19-21, 2017. Hamvention's new General Chairman is Ron Cramer, KD8ENJ, who succeeded Jim Tideman, N8IDS. Tideman reported an "overall good mood" and "a positive attitude" at this year's event and said the Hamvention staff received many upbeat comments.

Hamvention's post-show [Satisfaction Survey](#) is soliciting comments and observations from those who attended this year's big show. -- *Thanks to Henry Ruminski, W8HJR*

From *The ARRL Letter*, July 14, 2016

FIELD DAY PICTURES

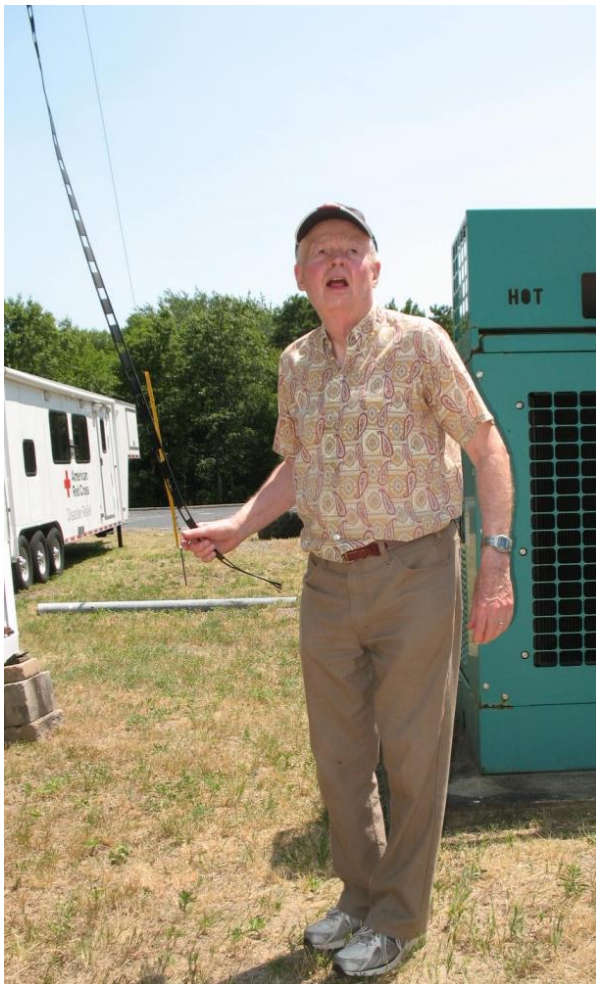
Thanks to Chris Wantuck, W2NQB



Cy, K2CYS pausing while working the 40 meter pileups in the tent.



Joe, W2KQ racking up the CW contacts.



Jim, K2EI looking with awe at the 80 meter double extended zepp that he just erected. The awesome antenna worked very well.



Rem, K2REM looking for 40 SSB contacts in the wee hours of the morning in the tent.



Art, N2AJ0 operating the GOTA station.

MEASURING CURRENT

By Bob Buus, W2OD

The first crude measure of continuous electrical current was the frog galvanoscope used by Galvani in the late 18th century. However, the discovery by Oerstad that a compass needle is deflected by a current-carrying wire led to much more precise (and sensitive) means of measuring electrical current.

Consider placing a wire under a compass and orienting the wire so it lines up with the north-pointing compass needle when no current is in the wire. Now if current is applied through the wire, the compass will deflect from north with the deflection increasing as the current increases and the sensitivity decreasing as the compass is moved further from the wire. Ampere showed that the magnetic field within a loop of wire is nearly uniform so placing the compass in the center of a wire loop makes the sensitivity of the measurement less dependent on the position of the compass with respect to the wire. Furthermore, winding several turns of current-carrying wire around the compass multiplies the sensitivity by the number of turns used.

It can be shown that the angle the compass is deflected from north is equal to the tangent of the ratio between the magnetic field produced by the current carrying loop and the earth's magnetic field. Maximum accuracy is obtained when the two fields are equal so the compass points 45 degrees from north. Such devices were called "tangent" meters or later, tangent galvanometers.

In 1825 an Italian named Leopoldo Nobili (1784-1835) invented an "astatic" galvanometer which used opposing magnets on a common compass shaft so his galvanometer did not have to be oriented with respect to the earth's magnetic field. In 1858 Lord Kelvin (1824-1907) vastly increased the sensitivity of the galvanometer by putting a small mirror on the compass shaft and measuring very minute deflections through a beam of light reflected off the mirror.

The next improvement came in 1882 when Jacques-Arsene d'Arsonval placed the current-carrying loop in a fixed magnetic field created by a permanent magnet so the rotation of the moving coil was an indication of the current flow. This was further refined by Edward Weston (1850-1936) who migrated from England to Newark, NJ

and manufactured an extensive line of portable panel meters which can still be found at swap meets. So now you know how the analog panel meter came about.

HUDSON DIVISION AWARDS

Nominations for the 2016 Hudson Division Awards are now being accepted.

This is a wonderful opportunity for you to nominate someone who has greatly contributed to Amateur Radio in our Division. The ARRL Hudson Division typically grants awards each year to some very deserving members of the ARRL in the following (but not limited to) categories; Technical Achievement, Grand Ole Ham, and Amateur of the Year.

Last year was a banner year for award nominations! We hope to get as many nominations this year as well.

There are deserving hams throughout the entire Hudson Division. We are asking you to make submissions for this year's awards by taking the time to fill out the award nominations form, include any supporting documentation that best represents the candidate, and write a few paragraphs describing why you think they deserve the award. The more supporting documents, the better.

The deadline for submission of all nomination materials is August 22, 2016.

The Awards Luncheon, sponsored this year by the Orange County Amateur Radio Club (OCARC), will be held on Saturday, November 5, 2016 at the Ramada Cafe International in Newburgh, N.Y.

All proceeds from the luncheon will be donated to the ARRL Legislative Issues Advocacy Fund. Donations to this fund are used specifically to support the efforts to promote, inform, and advocate to Congress on behalf of Amateur Radio.

Nomination forms are available in PDF at: <http://hudson.arrl.org/wp-content/uploads/2016/07/2016-ARRL-Hudson-Div-Awards-Nom-Form.pdf>

ARRL Hudson Division Director:
Mike Lisenco, N2YBB
n2ybb@arrl.org

FIELD DAY PUBLICITY

By Bob Buus, W2OD

GSARA Field Day made the front page news of the July 7-14 issue of the Two River Times. The story and photos were by Jay Cook, a grandson of our own Len Kline, WA1PCY. The well-written story spilled over to page 4 and included two photos – one with Cy, K2CYS operating in the tent and the other of the GOTA station in the Red Cross Building.

Upon reading the story, Hudson Division Director Mike Lisenco, N2YBB wrote to GSARA:

My congratulations to the club on such a fine article regarding the GSARA Field Day effort. I am forwarding this to Sean Kutzko KX9X, ARRL Media and Public Relations Manager so that HQ has it as well.

Vy 73 de Mike

GSARA sent a letter to the Two River Times thanking them for publishing such a fine article.

FCC FIXES PROCESSING PROBLEM

It's taken a couple of weeks, but the FCC has resolved a computer programming problem that had affected its ability to accept and process batch-filed Amateur Radio applications, resulting in a backlog for the Volunteer Examiner Coordinator (VEC) and others taking advantage of automated processing. The FCC information technology staff had been attempting to fix the glitch that had affected the Universal Licensing System (ULS) Electronic Batch Filing (EBF) system since it first cropped up on June 28.

By June 30, it appeared that the FCC had corrected the broader problem, but the EBF remained unable to process ARRL VEC's automated, batch-filed applications and exam sessions. VECs that were manually logging in to upload their files were unaffected.

ARRL's IT Department and the ARRL VEC confirmed on July 14 that the problem had been fixed, the backlog of more than 1200 applications and 300 exam sessions cleared, and the flow of automated, batch-filed applications and exam sessions able to resume.

From *The ARRL Letter*, July 14, 2016

TEN YEARS AGO

From the August 2006 Propagator: Field Day final results were published with a final score of 2782. We made 192 CW contacts and 582 phone contacts. A thank you letter was received from Kathy Finch, KD2VX thanking us for publishing her father's obit (Rogers Finch, KA2HSU). Montenegro became a new DXCC entity.

FIFTEEN YEARS AGO

From the August 2001 Propagator: Ed Kracum, WB2COP became a silent key on July 11 at the age of 72. Several Field Day pictures at Tatum Park were included. An extensive list of VHS video tapes available for loan to members was published. Mike, KC2Q published a list of interesting DX to watch for.

TWENTY YEARS AGO

From the August, 1996 Propagator: Field Day at Tatum Park scored 4558 points. Marconi's daughter Gioia Marconi died at age 80. GSARA will be operating a special event station from Fort Hancock on August 10-11. We are having a BBQ picnic at Fireman's field in Oakhurst on August 17. Lou Russo upgraded to Extra class and changed his call from KB2RIO to AB2BQ (and later W2HAM).

TWENTY-FIVE YEARS AGO

From the August-September 1991 Propagator: Field Day at Tatum Park was successful as 4A and we ran up 4065 points. GSARA sent \$50 to the ARRL Scholarship Fund in memory of Bill Saker, KG2U.

THIRTY YEARS AGO

From the August 1986 Propagator: Lou Eloe, WA2SSH became a silent key. An additional 21 names were added to the silent key plaque. Over 20 GSARA members are expected to participate in the Asbury Park 10K Classic on August 9. Dotty Morley, XYL of AI, KU2H just received her license and is KB2BCN. Editor John, KA2F had a quiz challenging us to name all 21 NJ counties in preparation for the NJ QSO Party.

NOTES ON CALENDAR (see next page)

Large Call letters denote birthdays e.g. **WA2DJN** August 9. All times are EDST. Contests are listed in the August QST, p. 83.

August 1 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm

August 2 – **Old Barney VE Session** at 6:30 pm in Manahawkin. Contact Urb Le Jeune, W1UL at 609-296-5856 or urb@w2dec.com

August 2 – **Old Barney ARC Meeting** at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>

August 2 and every following Tuesday – **GSARA Net** on 147.045 PL=67 at 8:30 pm.

August 2 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

August 3 – **GSARA Program Meeting** at 7:30 pm at the Red Cross. Program is still being negotiated at press time. Light refreshments will be served.

August 3 - **WIAW Qualifying Run** at 10 pm (10-40 wpm). See August 2016 QST page 101 and www.arrl.org/qualifying-run-schedule

August 4 - **HCARC meeting** at 7 pm at Holiday City South Clubhouse in Toms River.

August 5 and every Friday – **Lunch at the Blue Swan Diner** in Ocean at noon. Table at back left of Diner.

August 6-7 – **North American CW QSO Party** from 2 pm Saturday to 1:59 am Sunday. See <http://www.ncjweb.com/NAQP-Rules.pdf>

August 7 and every Saturday, Sunday and Wednesday – **InfoAge Marconi Hotel** open from 1 to 5 pm on Marconi Road in Wall.

August 8 -. **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

August 10– **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

August 11 – **JSARS meeting** in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.

August 13 – **OMARC Meeting** at 9:00 am at the Diana Site on Marconi Road in Wall. Guests welcome.

August 13 – **50 MHz Fall Sprint**, CW and Phone from 7 pm to 11 pm. See <http://www.svhfs.org>

August 15 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm

August 17 – **GSARA Meeting** at 7:30 pm at the Red Cross in Tinton Falls. Regular business meeting.

August 18– **WIAW Qualifying Run** at 4 pm (10-40 wpm). See August 2016 QST page 101 and <http://www.arrl.org/qualifying-run-schedule>

August 18– **JSARS VE Test Session** at 7:00 pm Riverview Park Recreation Bldg., Rt. 527 and Riverwood Drive in Toms River. Contact Ed Genoino, WA2NDA at 609-971-2792 or wa2nda@comcast.net.

August 20-21 – **North American SSB QSO Party** from 2 pm Saturday to 1:59 am Sunday. See <http://www.ncjweb.com/NAQP-Rules.pdf>

August 21 – **ARRL Rookie Roundup, RTTY** from 2 to 7:59 pm. See <http://www.arrl.org/rookie-roundup>

August 22 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm

August 27-28 – **Hawaii QSO Party**, all modes from midnight Friday to midnight Sunday. See <http://www.hiqsoparty.org>

August 27 – **W/VE Islands QSO Party**, all modes from 8 am to 11 pm. See <http://www.usislands.org>

August 27 – **GSARA VE Test Session** at 11 am at the Red Cross in Tinton Falls. See page 1.

August 29 – **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---------------------------------|---|--------------------------------|---------------------------------|-----------------------|---|
| | 1 ARES/RACES 7:30 | 2 OBARC GSARA Net 8:30 QCWA News 9 PM | 3 GSARA Mtg CW Qual. Run | 4 HCARC Mtg. | 5 Blue Swan lunch | 6 NA CW QSO |
| 7 NA CW QSO InfoAge | 8 RACES Net 7:30 | 9 WA2DJN GSARA Net 8:30 QCWA News 9 PM | 10 Hol. City VE | 11 JSARS Mtg | 12 Blue Swan lunch | 13 OMARC Mtg |
| 14 N2GT InfoAge | 15 WA2FFT ARES/RACES 7:30 | 16 GSARA Net 8:30 QCWA News 9 PM | 17 K2EI GSARA Mtg. | 18 CW Qual. Run JSARS VE. | 19 Blue Swan lunch | 20 NA SSB QSO |
| 21 NA SSB QSO InfoAge Rookie Rndup | 22 ARES/RACES 7:30 | 23 GSARA Net 8:30 QCWA News 9 PM | 24 K2CYS | 25 KD2GWH | 26 Blue Swan lunch | 27 GSARA VE Test Hawaii QSO W/VE Islands |
| 28 Hawaii QSO InfoAge | 29 RACES Net 7:30 | 30 GSARA Net 8:30 QCWA News 9 PM | 31 | | | |



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FIRST CLASS