



THE PROPAGATOR

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

FEBRUARY 2011

UPCOMING GSARA MEETINGS

The next regular meeting of the GSARA will be held on **Wednesday, February 2 at 7:30 PM** at the **American Red Cross** in Tinton Falls. This will be a regular business meeting followed by a brief program by Bill, NJ2H about his home back-up generator project. Guests are welcome and refreshments will be served. Please try to attend.

The second meeting in February, also at the Red Cross, will be on **Wednesday, February 16 at 7:30 PM** and will feature Bob, W2OD talking about RF safety. Every amateur is required by law to be familiar with this subject so come to the meeting and have your memory refreshed. As always, refreshments will be served. We look forward to seeing you there.

WHITE ELEPHANT SALE MARCH 16

GSARA will hold its annual white elephant sale on Wednesday, March 15 from 7:30 to 9 pm at the Red Cross building. Members are asked to donate items they no longer want and these can be brought to any GSARA meeting prior to March 16. Access to the Red Cross building for sellers and donated equipment opens at 6:30 pm. Bidding on item selections starts at 7:30 PM and ends at 9 PM. Members can also put items they wish to sell on the club table and pay GSARA a 10% commission on anything sold. High end or valuable items will be auctioned on a written bid basis.

There will be refreshments and home made baked goods for sale. Mark your calendar now and plan to attend this free event. This is an excellent opportunity to get rid of your old junk and acquire some beautiful junk in return. For more information, contact Joe, W2KQ at 732-539-5875 or jdreifuss@optimum.net.

W2GSA STATION OPEN SATURDAYS

The GSARA radio room at the Red Cross will be open Saturday afternoons starting February 8 for those wishing to operate or just "hang out". Go around the building to the back door for entrance. If you want to check to be sure that someone is there, call 732-493-9100 ext. 1252.



Frank, W2XYZ (upper photo) making his presentation at the January 19 meeting assisted by Howard, W2HTS (lower photo) at the computer. Photos by Ray, W2NXG

GSARA HOMEPAGE

<http://www.gardenstateara.org>

HUDSON DIVISION HOME PAGE

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

GSARA OFFICERS

President	W2XYZ	Frank Wroblewski	942-7705
Vice Pres.	W2HTS	Howard Suffill	460-1885
Secretary	W2OD	Bob Buus	946-8615
Treasurer	W2KQ	Joe Dreifuss	493-4236
Engineer	N2LXM	Jeff Harshman	922-0816
Webmaster	KC2TKK	Josh Gluck	
Publicity	NJ2H	Bill Shockley	207-4466
Trustees	KG2NV	Don Pingitore	229-2925
	W2OD	Bob Buus	946-8615
	W2HAM	Lou Russo	842-6431

PROPAGATOR AVAILABLE BY E-MAIL

Would you like to help the finances of GSARA and at the same time get your issue of *The Propagator* a few days earlier? You can get every issue e-mailed to your computer every month by simply giving your e-mail address to Josh Gluck, KC2TKK and request *The Propagator* electronically. Josh's e-mail address is <kc2tkk@gardenatateara.org>.

BADGES AND PATCHES

If you would like a GSARA name badge, you may order one by getting a Badge Order Form from our Secretary, **Bob Buus, W2OD**, filling it out and turning it in to Bob with your \$7.00 payment.

We also now have 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). We then send them as a group 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.

EDITOR'S NOTES

I don't know about you but I'm getting tired of shoveling snow this winter and it's still January! Although I think it is good to get a little exercise by shoveling snow, there is a limit as to how much I might enjoy shoveling and we have exceeded that limit. Now I remember why I was so glad to leave Minnesota.

The New Providence Amateur Radio Club has been doing a lot to promote amateur radio among young people. Their latest endeavor (on page 4) is an FM Simplex Sprint Contest which will take place on Sunday afternoon, February 13. I encourage you to get on any of the VHF/UHF bands that you can and provide activity for the newcomers who might be participating. It's only an hour long on 2-meters and 30 minutes on each of the other bands. Maybe I'll see you on the air.

I'm still a bit disappointed in the poor participation from members with regard to solving the ladder network puzzle. Although the four who submitted correct solutions is four times as many as solved the previous month's puzzle, it still represents less than 10% of our members. I'm trying a "black box" puzzle this month which doesn't require any math and no knowledge of Ohm's law or Kirchoff's law so maybe it will be easier for a lot of you. Even if you don't solve the puzzle, could you please let me know if it is too hard, too easy, or you just don't like solving puzzles? I'm trying to decide whether to continue them or not.

If you are interested in obtaining a [gardenstateara.org](http://www.gardenstateara.org) email address which will give you webmail and POP3/SMTP access, please send an email to Josh at kc2tkk@gardenstateara.org with your First Name, Last Name, and Call Sign. Your email address call_sign@gardenstateara.org will be created and the login information sent back to the email address your request came from.

Remember if you change your e-mail address; please be sure to inform Josh Gluck, KC2TKK.

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

73 de Bob, w2od@arrrl.net

MINUTES OF JANUARY 5 MEETING

By Bob Buus, W2OD, Secretary

President Frank Wroblewski, W2XYZ called the meeting to order at the Red Cross at 7:30 PM. There were 20 members and two guests present. The guests were former member Bob Roman, N2DR from Middletown and Paul McLeod, son of K2QXW, from Indiana. After the pledge to the flag, all members introduced themselves.

Health and Welfare

Doris Mae Armstrong, widow of silent key Walt Armstrong, WU2E passed away on December 26.

Laura, N2HGI brought in an article showing how her son, N2EID recovered from heart trouble.

Secretary's Report

A motion was made by Jeff, N2LXM and seconded by Howard, W2HTS to accept the minutes of the December meetings as published in the January Propagator. The motion was accepted unanimously.

A note of thanks from Bob, WB2KNS was received and read regarding the death of his wife.

Treasurer's Report

Treasurer Joe, W2KQ presented the treasurer's report. A motion was made by Lou, W2HAM and seconded by Ray, W2NXG to accept the report. It was accepted unanimously.

Old Business

GSARA shirts are in and can be picked up and paid for after the meeting.

Dues for 2011 are due now and can be paid to Joe, W2KQ.

The Red Cross gave us 3 good computers that will be used in our radio room. We extend our thanks to the Red Cross.

Our white elephant sale is scheduled for Wednesday, March 16, 2011. We are asked to set aside potential donations for this sale. A table (or tables) will be available to members of GSARA to sell their goodies with a 10% commission to be paid to GSARA.

Show and Tell

Jeff, N2LXM brought a mystery inductor box that he built from an article in the January 2011 QST. It

was a very neat job and worked very well at finding the inductance of an unknown coil at rf frequencies.

Arek, AC2FC brought a set of boards that he had ordered and just received for his upcoming project. He will share it with us when it is finished.

Announcements

The GSARA radio room will be open on Saturday afternoons to anyone who would like to stop by for a visit or to operate. Because of the snow, you will have to enter through the front door.

OMARC will be operating N2MO as a special event station on Saturday, January 11 to commemorate the 65th anniversary of project Diana.

Boy Scouts will be on the air from the battleship New Jersey as NJ2BB. Listen for them.

JSARS will be holding a swap meet on Thursday, January 27 at the Riverwood Park Recreation center.

Program

Frank, W2XYZ gave a short program about controlling radios via the internet. There are several stations throughout the world that you can connect to and listen via VOIP. He also showed how he can control his radio at home from the Red Cross by using the internet. He will have much more to say about this at the January 19 meeting.

Closing

The door prize of \$15 was won by Bob, N2DR who used his winnings to join the club. A second prize of a Field Day cup was won by Ed, WB2KCV. There being no further business, a motion was made by Jeff, N2LXM and seconded by Ralph, KC2YNL to close the meeting. The motion was accepted unanimously and the meeting adjourned at 8:50 PM.

MINUTES OF JANUARY 19 MEETING

By Bob Buus, W2OD, Secretary

President Frank Wroblewski, W2XYZ called the meeting to order at the Red Cross at 7:36 PM. There were 19 members and two guests present. Guests were Steve Jackson, N2WLH from Toms River and Jeff Lambert, KC2ZDK from Brick. After the pledge to the flag, all members introduced themselves.

Correspondence

We received a certificate request from our K2USA operation of a year ago. Jeff will take care of it.

New Member

A membership application was received from Bob Roman, N2DR from Red Bank. Bob was formerly a member of GSARA and holds an Extra Class license. His interests include rag chewing and working DX as well as singing in a choir. By unanimous vote, he was accepted into the GSARA.

Old Business

The GSARA White Elephant sale is scheduled for Wednesday, March 16. Joe, W2KQ will hold a brief meeting of the white elephant committee after the GSARA meeting. Members are invited to bring their donations to any of the upcoming GSARA meetings.

New Business

The GSARA is planning on holding a Hamfest on Saturday, May 7. The NADXA has been invited to help us if they desire.

Program

Frank, W2XYZ gave an interesting presentation about controlling a remote amateur radio station through the internet. The goal is to be able to operate our station at the Red Cross from our homes. This would allow us to provide communications even if conditions do not permit us to get to the Red Cross. There are some internet security issues at the Red Cross that are being looked at.

Frank did demonstrate how he can control his Kenwood TS-2000 at home by using a laptop at the Red Cross connected to the internet. He encouraged anyone interested to try out the software. It is available to download for free at www.n2jeu.net.

Announcements

OMARC is planning a tailgate Hamfest at the Diana site in Wall on Saturday, April 16.

Closing

The door prize of \$16 was won by Ray, W2NXG. There being no further business, a motion was made by Jeff, N2LXM and seconded by Tom, N2VFK to close the meeting. By unanimous vote, the meeting adjourned at 8:45 PM.

NPARC FM SIMPLEX SPRINT FEB. 13

The New Providence Amateur Radio Club is sponsoring an FM Simplex Sprint on Sunday afternoon, February 13. Although the purpose is to encourage newcomers to try contesting, all amateurs are encouraged to participate. All contacts must be made on FM simplex and the exchange is call sign and 4-character Maidenhead Grid square. Names and QTH are a good idea but not necessary for the contest.

The contest starts on 2 meters from 2 pm to 3 pm on the following simplex frequencies: 146.43, 146.46, 146.49, 146.55 and 146.58.

From 3 pm to 3:30 pm, the contest moves to 70 centimeters on the following frequencies: 446.025, 446.050, 446.075 and 446.100.

From 3:30 to 4 pm, the contest is on 6 meters on the following FM frequencies: 52.53, 52.55, 52.57, and 52.59.

Finally, the contest wraps up on 1.25 meters from 4 to 4:40 pm on the following frequencies: 223.52, 223.54, 223, 56, and 223.58.

Contacts on the 146.52 calling frequency will be disqualified and you are asked to avoid the calling frequencies of 52.525, 223.50 and 446.00.

You must use less than 150 watts on 6 and 2 meters and less than 100 watts on 1.25 and 0.70 meters. Mobiles must work from a minimum of two grid squares. There is a separate category for kids under 18 years old.

Scoring: Each QSO on 2 meters is worth 1 point, 70 centimeters and 6 meter QSOs are worth 2 points and 1.25 meter QSOs are worth 3 points. A contact with Club Station N2XJ is scored as above PLUS 2 additional points. Each grid square can be used once per band as a multiplier. Score is calculated by multiplying total QSO points by total multipliers. Technicians multiply their final score by 1.5 for a bonus.

Logs: Send to K2JV electronically or on paper by February 28, 2011. Logs must show "Band – Local time – Call sign worked – Grid Square" for each QSO. Logs must have a summary stating: Your call sign, Kid or Adult, Base or Mobile, Number of QSOs per band, QSO points, Grid Square multipliers by band, and claimed total score.

GM HAM SOLVES ANTENNA PROBLEM

When General Motors -- the world's second largest auto maker -- encountered a problem with the AM/FM antenna on its 2011 Chevrolet Camaro convertible, it was at a loss as to what to do. Spy photographs showed a pre-production version of the car with a long whip-style antenna on its rear fender. After what GM called "*an outcry among Camaro enthusiasts,*" the company decided to rethink the antenna. But how?



The 2011 Chevrolet Camaro convertible -- available February 2011 -- features its AM/FM radio antenna inside the spoiler, thanks to some ham ingenuity. The "shark fin" antenna is for satellite radio, OnStar and cellular signals. Click here to watch a video about the design of this new antenna. [Photo courtesy of General Motors]

On hardtop Camaros, the antenna is integrated into the rear windshield, but given the disappearing nature of this car's roof, that wasn't possible on the convertible. So GM turned to two antenna engineers -- Don Hibbard, W8DBH, and Gregg Kittinger -- who were tasked with doing what some thought was impossible: concealing the AM/FM antenna without sacrificing radio reception, while not putting it inside the Camaro's windows. Read more here.

From *The ARRL Letter*, January 6, 2011

TWENTY FIVE YEARS AGO

From the February 1986 Propagator edited by John King, KA2F: The tragic loss of seven astronauts on January 28, 1986 was noted. New members to GSARA included Ed Kracum, WB2COP-SK and Mark Rubin, WA2GRD. The Star Ledger for December 25, 1985 reported that a Ham Radio operator in Plainsboro is in trouble for recording mobile phone conversions picked off the air.

HAMS TO LISTEN FOR BEACON



An artist's conception of NanoSail-D. [Image courtesy of NASA]

On Wednesday, January 19 at 1630 UTC, engineers at Marshall Space Flight Center in Huntsville, Alabama confirmed that the NanoSail-D nanosatellite ejected from Fast Affordable Scientific and Technology Satellite (FASTSAT). According to NASA, the ejection event occurred spontaneously; the ejection of NanoSail-D also has been confirmed by ground-based satellite tracking assets. NASA is asking radio amateurs to listen on 437.270 MHz for the signal and verify NanoSail-D is operating. Hams should send information to the NanoSail-D dashboard. As of Thursday, January 20, the NanoSail-D dashboard website is reporting that beacon data has been received, but NASA still wants amateurs to track and report the signals. Read more here.

From *The ARRL Letter*, January 20, 2011

TWENTY YEARS AGO

The February-March 1991 Propagator, edited by Elena Worrall, N2ITL reported the following: Gerry Silverman, WB2GYS asked for more volunteers to support MARS phone patches for "Desert Shield". Phil Peterson, W2DME-SK wrote about how he got started in amateur radio which culminated in the issuance of his first license for W2DME dated December 11, 1931. John Breza, WR2Z-SK reported that GSARA finally received its non-profit ID number from the state of New Jersey after a year of effort by Mike Begala, K2CTJ. Guest speaker at the February 6 meeting was Bob, W2OD talking about his keyboard keyer for Morse code.

AUDIO NEWS AGAIN ON iTUNES

The ARRL Audio News is once again available through iTunes. You can find the URL for the Audio News' RSS feed [here](http://www.arrl.org/arrlletter/audio/aan.rss). To download and subscribe to the Audio News at iTunes, log into your iTunes account and go to the "Advanced" pull-down menu. Click on "Subscribe to Podcast," insert <http://www.arrl.org/arrlletter/audio/aan.rss> in the dialogue box and click "OK." You are now subscribed! If you had previously subscribed to the ARRL Audio News via iTunes, you should not have to re-do these steps; episodes should appear in your podcast folder once you sync your device. Step-by-step photo instructions are available [here](#).

Of course, the ARRL Audio News is also available on the ARRL Web site and via telephone at 860-594-0384. The ARRL Audio News is compiled, edited and produced in conjunction with each ARRL Letter (except during the Dayton Hamvention, Thanksgiving and other times as announced).

From The ARRL Letter, January 6, 2011

GPS TESTS PLANNED

Don't panic, but anyone planning on using GPS in the southeastern US for the next month or so will likely want to make sure they have a fallback option. That's according to a flight advisory just issued by the FAA, which warns pilots that their GPS signal "may be unreliable or unavailable" due to "GPS tests" that the Department of Defense will be conducting between January 20th and February 22nd.

Details are fairly light beyond that, but the FAA does note that when the "tests" occur they will be active for 45 minutes, and be followed by 15 minutes of off time -- additional notices to pilots will apparently be issued at least 24 hours prior to any test.

Of course, while this particular advisory is directed at pilots, it will presumably also affect all other GPS devices, as the FAA doesn't mention any GPS issues specific to aviation. The real question, however, is just what those mysterious "GPS tests" are -- if they're, in fact, GPS tests at all.

From the Internet thanks to Frank, W2XYZ

LOGBOOK of THE WORLD & VUCC

ARRL's Logbook of the World (LoTW) -- an online system for amateurs to confirm two-way contacts that can be used for various ARRL awards -- has been upgraded to support awards based on Maidenhead grid squares, such as VUCC and the Fred Fish Memorial Award. To take advantage of the new features, you need to log in to your LoTW account. VUCC is an open-ended award in that hams can work on throughout their lifetime, just like DXCC. But, like the Worked All States award, the VUCC rules require all the contacts to be made from a defined area. For VHF and UHF QSOs on 1296 MHz and below, this distance must be within 200 km. For SHF awards, contacts must be made from a single location, defined as within a 300 meter diameter circle. As such, the VUCC support in LoTW allows you to make the rule -- or rules -- necessary to find the QSLs in LoTW that satisfy the VUCC rules. Don't have an LoTW account? It's easy to sign up. Read more [here](#).

From The ARRL Letter, January 20, 2011

FIFTEEN YEARS AGO

From the February 1996 Propagator: Tony, KA2ZSI was a guest at the January 3 meeting. New GSARA members voted in were Fran Dreifuss, WA2SZB (XYL of then president Joe, W2KQ (then WA2GSY)) and Tom Jardine, K2SAQ (now silent key). Secretary for 1996 was Frank, W2XYZ (then WS2Y). Show and Tell at the second January meeting included a direction finder made by Mike, KC2Q; a bunch of home brew gadgets shown by Tony, W2GUM-SK; and a modification of the "Price Club" (now Costco) battery pack with built-in digital voltmeter and ammeter.

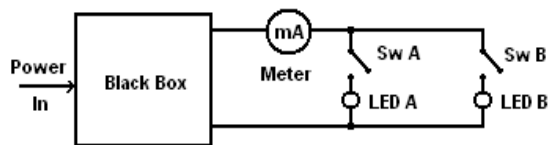
LOOKING FOR A GONSET G-76

I am looking for a Gonset Communicator for 6 meter AM, Model number G-76. If you have one that you are willing to sell, please contact me. Thank you.

Gary Jonson, KB1ESJ
603-524-8390

A NEW PUZZLE TO SOLVE

I know that you are often encouraged to think outside the box. In this problem, I want you to think inside the box. You are given a black box with two terminals on it. You connect a milliamp meter and two switches and two LEDs to the black box terminals as follows:

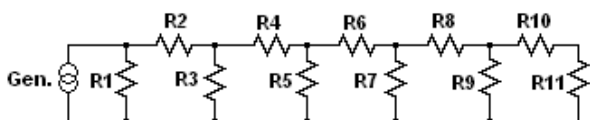


When switch A is closed, LED A lights and the meter indicates 10 mA (no surprise there). Then, when switch B is closed, LED A, of course remains lit at its normal brightness and LED B also lights with the same brightness as LED A. But now the meter reads zero current! What is in the black box? Hint: what does LED stand for?

There are several solutions. For extra credit, give as many solutions as you can using less than a dozen components in the black box.

ANSWER TO LAST MONTH'S PUZZLE

The following circuit has 1 ampere flowing in R11. If each of the resistors, R1 through R11, is 1 ohm, what is the voltage of the generator on the left and how many amperes must it supply?



Solution: If 1 amp flows through R11, 1 amp must also flow through R10 and there will be one volt across each of these resistors or two volts across R9. By Ohm's law, 2 volts across R9 results in 2 amps flowing through R9. The current through R8 will be the sum of the currents flowing through R9 and R10 or 3 amps so there will be 3 volts across R8 which, added to the 2 volts across R9 results in 5 volts across R7. With 5 amps flowing through R7 and 3 amps through R8, the current through R6 will be 8 amps. Proceeding in similar fashion from right to left results in the following table of currents through the resistors:

R11	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1
1	1	2	3	5	8	13	21	34	55	89

With 89 amps flowing through R1, the generator voltage must be 89 volts. The generator must supply the 89 amps going through R1 as well as the 55 amps through R2 so it must deliver $89+55=144$ amps.

The number sequence 1, 1, 2, 3, 5, ... where the next number is the sum of the previous two numbers, is called the Fibonacci sequence and is named after [Leonardo of Pisa](#), who was known as Fibonacci (a contraction of *filius Bonacci*, "son of Bonaccio"). Fibonacci's 1202 book *Liber Abaci* introduced the sequence to Western European mathematics, although the sequence was independently described in [Indian mathematics](#) and it is disputed which came first.

Fibonacci numbers are used in the analysis of [financial markets](#), in strategies such as [Fibonacci retracement](#), and are used in computer algorithms such as the [Fibonacci search technique](#) and the [Fibonacci heap](#) data structure. The simple recursion of Fibonacci numbers has also inspired a family of recursive graphs called [Fibonacci cubes](#) for interconnecting parallel and distributed systems. They also appear in biological settings, such as branching in trees, [arrangement of leaves on a stem](#), the fruit spouts of a [pineapple](#), the flowering of [artichoke](#), an uncurling [fern](#) and the arrangement of a [pine cone](#).

Note that if all of the resistors are changed from 1 ohm to π (3.14159) ohms and 1 ampere still flows through R11, all of the currents remain the same but the voltages are scaled up by the factor π . The required generator voltage is then 89π volts.

If we start on the left side with a 1 volt generator, and the resistors are all 1 ohm, the current through R1 will be 1 ampere. Note that this is $1/89^{\text{th}}$ the current in R1 for the first part of the problem. Thus, all currents are reduced by a factor of 89 so the current in R11 will be $1/89$ ampere or 11.236 mA. Easy, wasn't it?

Hats off to the following four GSARA members who correctly solved the puzzle (in the order in which they sent in their solutions):

Matt Bregoff, W2AOJ
 Bob Guercio, AC2Z
 Frank Wroblewski, W2XYZ
 Vince Rosati, KE2V

Congratulations!

NEW RATES FOR OUTGOING QSLs

Effective January 17, 2011, a new pricing structure will go into effect for the ARRL Outgoing QSL Service. With the new rate structure, amateurs will no longer need to count outgoing cards and then guess as to what to pay based upon a half-pound rate; a simple weighing of the cards is all that is necessary to determine what amount to send to the Bureau. This new structure also accommodates a small rate increase in response to recent postage, shipping and handling costs.

The last rate revision for the Outgoing QSL Service was in January 2007. Even though international shipping costs have remained flat over the last 4 years, domestic shipping costs have risen more than 16 percent since 2007, while material and handling costs continue to climb 1 to 2 percent each year.

The new rate will be:

\$2 for 10 or fewer cards in one envelope.

\$3 for 11-20 cards in one envelope, or

75 cents per ounce, for packages with 21 or more cards. For example, a package containing 1.5 pounds -- 24 ounces, or about 225 cards -- of cards will cost \$18.

If you have any questions concerning the ARRL Outgoing QSL Service or the rates to use the service, please send them via e-mail to buro@arrl.org.

From The ARRL Letter, January 13, 2011

AREA AMATEUR EXAM SESSIONS

Amateur radio exam sessions in this area are as follows but please contact the responsible person to be sure that the time and date are accurate.

Wall Township, Camp Evans Area on Marconi Road: Exams are held on the first Saturday of the even numbered months (February 5, 2011) at 10 AM. The contact person is Pat Brannick, N2BZD at 732-267-0308 or e-mail to pbrannick@aol.com.

Middletown, Croyden Hall on Leonardo Road: Exams are on the second Tuesday of every month at 7 PM. The contact person is Mario Sellitti, N2PVP 732-787-7184 or e-mail to n2pvp@n2pvp.com.

Toms River, Riverview Park Recreation Building: Exams are held on the third Thursday of every month at 7:30 PM. The contact person is Ed Genoio, WA2NDA at 609-971-2792 or e-mail to wa2nda@aol.com.

Toms River, Holiday City South Clubhouse, Meeting Room #1, Mule Road at the corner of Santiago Drive on the second Saturday of the odd numbered months (March 12, 2011) at 10 AM and on the second Wednesday of the even numbered months (February 9, 2011) at 7 PM. The contact person is Larry Puccio, K2QDY, 732-349-2950 or lpuccio1@comcast.net.

In all cases, the fee is \$15 and you should bring the original and a copy of any amateur license presently held and original and one copy of any credit (CSCE) forms you have. Also bring 2 forms of ID with one being a picture ID.

NOTES ON CALENDAR (see last page)

Large call letters denote birthdays e.g. **N2ZZP** February 5. All times are EST. Contests are listed in the February QST, p. 88.

February 1 – **Middletown Pancake House Luncheon** at noon at left rear table. All are welcome.

February 1 – **Monmouth Amateur Radio Club meeting** at 7 pm in Union Beach Police Annex (Municipal Building) on Poole Avenue.

February 1 – **Old Barney ARC Meeting**, 7:30 pm at Ocean Acres Community Center in Manahawkin, NJ. See <http://www.obarc.org>

February 1 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

February 2 - **W1AW Qualifying Run** at 7 pm (10-35 wpm). See February. QST, p. 80 or www.arrl.org/w1aw

February 2 – **GSARA Meeting** at 7:30 PM at the Red Cross, West Park Ave. and Shafto Road in Tinton Falls.

February 3 - **Holiday City ARC meeting** at 7 pm at Holiday City South Clubhouse in Toms River.

Feb. 4-6 – **Ten-Ten Winter Phone QSO Party** from 7:01 pm Friday to 6:59 pm Sunday. See www.ten-ten.org

February 5 – **Freeze Your Butt Off (FYBO) QRP Field Day**, CW from 9 am to 7 pm. See www.azscqrptions.org

February 5 – **North American CW Sprint** from 7 pm to 11 pm. See www.ncjweb.com

February 6 and every Sunday – **InfoAge Marconi Hotel** open from 1 to 5 pm on Marconi Road in Wall. Exhibits by QCWA, OMARC, Antique Radio, Broadcaster’s Hall of Fame, etc. \$5 donation requested.

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

February 8 – **VE Test Session** at Croyden Hall, Leonardo section of Middletown at 7:00 pm. For more information, contact Mario Sellitti, N2PVP at 732-787-7184 or n2pvp@n2pvp.com

February 9 – **Holiday City VE Session** at 7 pm in Toms River. Pre-register with Larry Puccio, K2QDY at 732-349-2950 or e-mail at lpuccio1@comcast.net

February 10 – **Jersey Shore Amateur Radio Society (JSARS)** meeting in Riverview Park Recreation Building, Rt. 527 and Riverwood Drive in Toms River at 7:30 pm.

Feb. 11-12 – **YL-OM Contest**, all modes from 9 am Friday to 9 pm Saturday. See www.ylrl.org

Feb. 11-13 – **CQ WW RTTY WPX** from 7 pm Friday to 7 pm Sunday. See www.cqwxrtty.com

February 12 – **OMARC Meeting**, 9:00 am at the Diana Site on Marconi Road, Wall, NJ followed by operating the station to commemorate Project Diana. Guests are welcome to drop in and operate the station.

February 13 – **North American SSB Sprint** from 7 pm to 11 pm. See www.ncjweb.com

February 14 – **Valentine’s Day!**

February 14 - **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

February 16 – **GSARA Meeting** at 7:30 pm at the Red Cross in Tinton Falls. RF Safety talk.

February 17 – **W1AW Qualifying Run** at 4 pm (10-35 wpm). See February QST, p. 80 or www.arrl.org/w1aw

February 17 – **JSARS VE Test Session** at 7:30 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.

Feb. 18-20 – **ARRL International CW DX** from 7 pm Friday to 7 pm Sunday. See www.arrl.org/contests

February 21 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

Feb. 25-27 – **CQ WW 160 Meter SSB** from 5 pm Friday to 5 pm Sunday. See www.cq160.com

Feb. 26-27 – **North American Digital QSO Party** from 1 pm Saturday to 1 am Sunday. See www.ncjweb.com

February 28 -. **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

2011 DUES ARE DUE!

If you have not yet paid your dues for 2011 (see mailing label on last page), now is the time to do it. Please pay our treasurer **Joe Dreifuss, W2KQ**. Regular membership is \$15, family membership is \$25, students are \$7.50 and active Military personnel pay no fee (but submit form to show continued interest in belonging). If you wish to have a paper copy of *The Propagator* mailed to you, add \$5 and check this box:

NAME _____ CALL _____

wishes to continue membership in GSARA for 2011. Payment of \$ _____ is enclosed.

Make checks payable to GSARA and mail or give to:
Joe Dreifuss, W2KQ
6 Fredric Drive
Ocean, NJ 07712

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 Pancake House MARC Mtg 7 PM Old Barney ARC QCWA News 9 PM	2 CW Qual. Run GSARA Mtg	3 Hol. City Mtg.	4 10-10 SSB	5 N2ZZP N.A. Sprint CW FYBO QRP 10-10 SSB
6 InfoAge	7 ARES/RACES 7:30	8 Croyden VE 7 PM QCWA News 9 PM	9 Hol. City VE	10 JSARS Mtg.	11 YL-OM all mode CQWW RTTY	12 OMARC Mtg YL-OM all mode N.A. Sprint SSB CQWW RTTY
13 CQWW RTTY InfoAge FM Simplex	14 Valentine's Day RACES Net 7:30	15 QCWA News 9 PM	16 GSARA Mtg	17 CW Qual. Run JSARS VE	18 ARRL DX CW	19 ARRL DX CW
20 ARRL DX CW InfoAge	21 ARES/RACES 7:30	22 QCWA News 9 PM	23	24 KG2IK	25 CQWW 160 SSB	26 CQWW 160 SSB Digital QSO Pty.
27 KC2WLT CQWW 160 SSB Digital QSO Pty. InfoAge	28 RACES Net 7:30					



G.S.A.R.A.
8 DONNER STREET
HOLMDEL, NJ 07733

FIRST CLASS