



# THE PROPAGATOR

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

APRIL 2011

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## UPCOMING GSARA MEETINGS

The next regular meeting of the GSARA will be held on **Wednesday, April 6 at 7:30 PM** at the **American Red Cross** in Tinton Falls. This will be a regular business meeting. Guests are welcome and refreshments will be served. Please try to attend.

The second meeting in April will be held on **Wednesday, April 20 at 7:30 PM** at the Red Cross. Guest speaker will be Gale McNamara from Bell Labs who will talk about undersea cables used for carrying voice and data communications to various parts of the world.

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## WHITE ELEPHANT SALE SUCCESSFUL

GSARA held its annual white elephant sale on Wednesday, March 16 at the Red Cross building. There were refreshments and home made baked goods for sale as well as lots of interesting "goodies". Almost everyone who attended picked up some good bargains and everyone had a good time.

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## BATAAN DEATH MARCH STATION

The Philippine Amateur Radio Association (PARA) will operate special event station 4D69DM on April 9, 2011, at Mt. Samat in Bataan.

The Death March happened on April 9, 1942 - some 69 years ago, hence the numeric indicator in the call sign.

It will be a straightforward set-up - TS850, SB201, Steppir BigIR antenna.

The operators will be Thelma, DU1IVT; Alex, DU3LCA; Bong, DU3BS; Butch, DU1RP and Ramon, DU1UGZ. Operation will be for 24 hours only. See <http://www.qrz.com/db/4D69DM>

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## OMARC TAILGATE HAMFEST APRIL 16

Mark your calendar now and plan to attend the OMARC tailgate Hamfest on Saturday, April 16 at the Diana site at 2300 Marconi Road in Wall. Doors open for buyers at 7 am (sellers at 6 am) and admission is \$5 (tailgate space is \$10). Talk-in is on 145.11 (127.3 Hz). For more information, go to <http://www.omarc.org> or contact Jeff Harshman, N2LXM at [n2lxm@juno.com](mailto:n2lxm@juno.com) or 732-996-0637.

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## W2GSA STATION OPEN SATURDAYS

The GSARA radio room at the Red Cross will be open Saturday afternoons 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 which is the phone in the radio room.

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## GSARA HAMFEST MAY 7

The annual GSARA/JCDXA Hamfest will be held this year on Saturday, May 7 in the parking lot of the MAECOM Adult Education Facility, 100 Tornillo Way, Tinton Falls (same location as the past two years). Hours are 8 am until noon (sellers 7 am). Admission is \$5 (tailgate spot is \$15).

For more information, go to <http://www.gardenstateara.org> or contact Frank Wroblewski, W2XYZ at [w2xyz@arrl.net](mailto:w2xyz@arrl.net) or 732-942-7705. We could use some help at this so please consider volunteering some of your time.

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## GSARA HOMEPAGE

<http://www.gardenstateara.org>

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## 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

Our annual White Elephant sale is over and, again, it was a success insofar as it raised some money for GSARA and brought in at least one new member. It would have been nice to see a bigger turnout of GSARA members but it was good to see the non-members show up so our publicity efforts seemed to work. The big empty warehouse was a good venue for holding this sale and I offer a big THANK YOU to the members who worked so hard in set-up and take-down. By the way, the baked goods for sale were delicious!

Last month's puzzle about finding Morse code palindromes was a big bust with NO ONE submitting any words at all. Since several of you voted to continue publishing puzzles, I have to assume that no one found Morse code palindromes very interesting. I had planned on putting a cryptogram as the puzzle for this month but then decided against it thinking it might be too time-consuming. So, I substituted a simpler puzzle this month (see page 7) which, I hope, some of you find interesting.

I'm looking forward to attending the Trenton Computer Fest and ARRL New Jersey Convention on April 2 and 3. I'm giving a talk on Sunday morning at 10:15 on the Forefathers of Radio. This is an extension of a talk I gave to GSARA a year ago or so.

Don't forget about the OMARC tailgate Hamfest on Saturday, April 16. I always find these OMARC events interesting and I always seem to find some "goodies" that I just have to buy.

If you are interested in obtaining a [gardenstateara.org](mailto:gardenstateara.org) email address which will give you webmail and POP3/SMTP access, please send an email to Josh at [kc2tkk@gardenstateara.org](mailto:kc2tkk@gardenstateara.org) with your First Name, Last Name, and Call Sign. Your email address [call\\_sign@gardenstateara.org](mailto: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 May issue is April 15.

73 de Bob, w2od@arrl.net

## MINUTES OF MARCH 2 MEETING

By Bob Buus, W2OD, Secretary

President Frank Wroblewski, W2XYZ called the meeting to order at the Red Cross at 7:32 PM. There were 13 members and two guests present. The guests were Jeff Lambert, KC2ZDK from Brick and ARRL NNJ Section Manager Rich Krohn, N2SMV. After the pledge to the flag, all members introduced themselves.

### Secretary's Report

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

### Treasurer's Report

Treasurer Joe, W2KQ presented the treasurer's report. A motion was made by Andrea, N2LAL and seconded by Ralph, KC2YNL to accept the report. It was accepted unanimously.

### Old Business

Our white elephant sale is scheduled for Wednesday, March 16, 2011. Members are asked to bring in their donations for this sale on any Saturday before the 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. .

A deposit has been made for our Hamfest on Saturday, May 7 in the MAECOM parking lot, the same location as last year.

### New Business

The rfsafety.exe program cannot be sent as an attachment to e-mail because the .exe type of file is blocked by most anti-virus programs. It was suggested that the file name be changed with a different extension and, once downloaded, the recipient can change the extension back to .exe.

### Announcement

There will be a Skywarn class at the March 19 Cherryville Hamfest. Members are encouraged to take advantage of this offer.

### Programs

.We had the honor of having two guest speakers with each giving a brief talk. The first was Randy Kulzer, N2CUG showing how he installed a

complete mobile station in his vehicle without marring the vehicle. He showed several innovative ideas he applied to permit rapid removal of the radio equipment and yet keeping the installation looking very neat and assuring that the installation is safe.

The second speaker was our ARRL NNJ Section Manager, Rich Krohn, N2SMV. Rich talked about the threat to the 70 cm band of HR607 and urged us all to write to our congressmen and ask them to oppose this bill. He gave web sites for sample letters as well as advising that we send our letters through ARRL representative Chwat and Co rather than direct.

### Closing

The door prize of \$15 was won by Bruce, K2QXW. A second prize of a Field Day mug was won by Bill, NJ2H. 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 8:41 PM.

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## WEATHERPROOFING YOUR TUNER

Geoff Haines, N1GY, of Bradenton, Florida, sent us this idea for waterproofing your automatic antenna tuner. Contact Geoff via e-mail for more information.

As an avid Amateur Radio operator, I sometimes use an automatic antenna tuner to operate more than one band with the same antenna. My mobile unit uses an LDG RT-11 autotuner to feed a pair of "Hamstick" style antennas on several different bands. One antenna covers the lower bands and another antenna covers the higher ones. An excursion into operating "fixed portable" with a telescopic vertical had me looking for another solution.

In order to minimize the coax losses when feeding a vertical monopole away from its resonant band it is necessary to reduce the distance between the tuner and the antenna to a minimum. The use of ladder line is not feasible when the antenna is fed almost at ground level. In order to do this, it is necessary to place the tuner almost directly at the base of the antenna and thus reduce the coax run from the tuner to the antenna to nearly nothing. The coax from the tuner to the transmitter can then be any appropriate length since the mismatch has already been corrected.

Owning an LDG Z-100 automatic tuner already, I looked for a way to mount it at the base of the antenna and yet protect it from the elements. A phone call to LDG gave me the necessary specifications for a 50 foot extension of the control cable so the only thing left was to find a workable enclosure for the tuner itself. I discussed the requirements for such an enclosure with my spouse, Audrey. Without a word, she rummaged through a kitchen cabinet and produced a semi flexible plastic container that had a snap-on lid and fit my Z-100 and its cables to a T.

I drilled four small holes in one end of the container into which I fitted two short coax jumpers, one for the antenna and one for the radio. I also made up and installed a short 4-conductor cable to connect the stock control harness to the 50 foot extension. The fourth opening was used for a similarly short insulated wire to connect the grounding stud on the Z-100 to the radial system of the antenna. Once these four cables were in place, I sealed the drilled openings with hot glue. Silicone caulk could be used just as easily, provided it will stick to the container. I did not try that because the hot glue was at hand so you are on your own there (see Figure 1).



Figure 1

With the jumpers connected to the tuner, the extension cable and coax were run to the transceiver and the antenna erected. Now, testing was in order. The pressing of the TUNE button on my IC-706MKIIG did exactly what it was supposed to do. The Z-100 ran through its paces and signaled a good match. Now if the afternoon showers come while I am operating "fixed portable," the only

thing I have to worry about is keeping me and the radio dry. The tuner is cozy in its own little raincoat (see Figure 2).



Figure 2

Total cost, even if you had to buy the container new at the discount store, would probably not exceed \$10. That does not include the extension control cable of course. The container was already here and I had enough UHF connectors, coax, wire and weatherproofing on hand for the project. The only thing I had to buy was the 4-conductor cable and Molex connectors to build the 50 foot extension cable.

This project has enabled me to comfortably operate "fixed portable" from the beach, at Field Day and many other events where a vertical was the only feasible antenna. As long as the container can handle the physical size of the tuner with room for the connecting cables, any automatic tuner could be protected in this way.

Do you have an idea or a simple project that has improved your operating? Maybe you've taken something commonly found around the home and developed a ham radio use for it? Why not share your hints with fellow hams in "Hints and Kinks," a monthly column in QST. If we publish your hint, you will receive \$20. Send your hints via e-mail to [h&k@arrl.org](mailto:h&k@arrl.org) or to ARRL Headquarters, Attn: "Hints and Kinks," 225 Main St, Newington, CT 06111. Please include your name, call sign, complete mailing address, daytime telephone number and e-mail address.

From *The ARRL Letter*, March 10, 2011



## AMATEURS ASSIST IN OCEAN RESCUE



An elderly sailor and his dog were rescued off the coast of Ensenada, Mexico after a ham in Texas heard his distress call on 14.300 MHz. In this USCG photo, he is pictured safely aboard Coast Guard helicopter with USCG Petty Officer 2nd Class James Johnson. [USCG Petty Officer 2nd Class Henry G. Dunphy, Photo]

At 10:04 AM PDT on March 21, Rex Weinheimer, KC5AGO, of Stonewall, Texas -- a member of the Maritime Mobile Service Net (MMSN) -- heard and responded to a "weak and broken MAYDAY call." The call was from the sailing vessel Gloria Jean, a 30 foot sailboat that was in the Pacific Ocean about 120 miles west of Ensenada, Mexico. Weinheimer heard the distress call on 14.300 MHz, a frequency monitored by the MMSN.

MMSN Net Controller Lee Langford, KG4DZN, told the ARRL that through the combined efforts of several net stations, the net was able to ascertain the situation and the position of the stricken vessel. MMSN operators contacted both the US and Mexican Coast Guards and both services deployed assets to the scene. The US Coast Guard dispatched an MH-60 Jayhawk helicopter from San Diego and a C-130 Hercules plane from Sacramento. According to the USCG, the Gloria Jean had no propulsion, food, water or safety equipment. Read more here.

From *The ARRL Letter*, March 24, 2011

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### WATCH TO TOP OF YOUR HEAD!

A one-inch spark gap with needle points breaks down at about 27,000 volts; with 1" balls forming the gap, it breaks down at 58,000 volts.

## NIST CONDUCTING USER SURVEY

The National Institute of Standards and Technology's (NIST) Time and Frequency Division is conducting a survey to learn more about its users, seeking to determine how the agency can make its services more useful in the future. NIST services include WWV, WWVH and WWVB, which provide reference time and frequency signals via radio. The NIST also provides the Internet Time Service -- which provides accurate time synchronization to computer systems -- and several other services to offer accurate time information via telephone or web pages. Radio amateurs are encouraged to complete the survey. Read more [here](#).

From *The ARRL Letter*, March 24, 2011

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### LICENSE MANUALS INCLUDE CD-ROM

Get a jump on your Amateur Radio license upgrade with ARRL license manuals. Now the manuals for the Technician, General and Amateur Extra class licenses include a CD-ROM, complete with exam review software. Each manual includes the complete question pool for its license class, including detailed explanations for all questions and answers. The ARRL Ham Radio License Manual -- Second Edition (valid through June 30, 2014), The ARRL General Class License Manual -- Sixth Edition (valid through June 30, 2011) and The ARRL Extra Class License Manual -- Ninth Edition (valid through June 30, 2012) will help you earn the privileges that come with upgrading your Amateur Radio license. Read more here.

From *The ARRL Letter*, March 17, 2011

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### EXPLANATION FOR LOW SUNSPOTS

An article in the March 3 issue of the journal *Nature* purports to explain the extended sunspot minimum from 2008-2010. According to one of the authors, Piet Martens, the last time a sunspot minimum lasted twice as long as usual was around 1913 and before that, 1810. Although solar activity has increased recently, scientists have been puzzled by the lack of sunspots from 2008-2010. This quiet period had prevented the ionosphere from supporting much of the long-range higher frequency HF Amateur Radio communication that had been expected during the past few years. Read more here.

From *The ARRL Letter*, March 10, 2011

## MEASURING A METER'S TOLERANCE

David Van Doorn, W9WEL, of Fort Wayne, Indiana, wrote to the ARRL's Doctor, asking about his analog meter's tolerance. He wanted to know if the tolerance is listed as 10% of full scale, does that actually mean  $\pm 10\%$  of full scale? For example, a meter with a 300 unit full scale would have a specified accuracy of the measured value of  $\pm 30$ . Thus, a reading of 40 could actually be anywhere from 10 to 70. Or does that mean  $\pm 10\%$  at full scale? For example, at 300 full scale, an actual value of 300 could read 270 or 330 and every other reading on that scale would read  $\pm 10\%$ ? So an actual value of 40 could read 36 or 44?

Here's what the Doctor had to say:

I'm afraid it is the former. This suggests that the scale selected be one with the reading near the top of the range for maximum accuracy. Keep in mind that the actual accuracy could be -- and often will be -- much better than that specified, just not worse.

Thanks Doctor! Do you have a question or a problem? Send your questions via e-mail or to The Doctor, ARRL, 225 Main St, Newington, CT 06111 (no phone calls, please). Look for "The Doctor Is IN" every month in QST, the official journal of the ARRL.

From *The ARRL Letter*, March 3, 2011

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## NEW MF BAND AT WRC-12?

Amateur Radio has moved a step closer to a medium frequency (MF) allocation below the AM broadcast band. During the first week of the Conference Preparatory Meeting (CPM) for the 2012 World Radiocommunication Conference (WRC-12) of the International Telecommunication Union, held in Geneva February 14-25, delegates completed the drafting of nine pages of analysis of the technical and regulatory issues related to WRC-12 Agenda Item 1.23: consideration of a possible secondary allocation to the Amateur Service of about 15 kHz somewhere between 415 and 526.5 kHz. Two possible methods of satisfying the agenda item, along with the possibility of there being no change (and therefore no allocation), are set out in the CPM Report, along with the advantages and disadvantages of each. Read more here.

From *The ARRL Letter*, February 24, 2011

## NEW MARS ROVER HAS MORSE CODE

As the Jet Propulsion Laboratory (JPL) builds the next Mars rover -- this one is named Curiosity -- to deploy to the red planet in the fall of 2011, they're having a little fun with it. Back in 2007 when the Curiosity team was putting together the rover, its wheel cleats had a raised pattern with the letters "JPL," leaving a little stamp of the rover's birthplace everywhere it rolled. "At the time, I asked whether the real rover would have those wheels, and they said, no, they weren't going to get to advertise JPL with each turn of each of the rover's six wheels; the real rover would have some other pattern," said Emily Lakdawalla of The Planetary Society in her blog. Lakdawalla is the organization's Science and Technology Coordinator.

But in March 2011, she saw a video of the rover as it is today: "I had to chuckle at those 'visual odometry markers' [on its tires]. Before I explain why, I'll point out that they really are useful things to have in rover wheels. The repeating pattern of the 'visual odometry markers'...makes it fairly easy for both the rover and human operators to determine visually how far the rover has roved using rear-view imagery."

So what pattern did JPL choose to put on Curiosity's wheels? One that Lakdawalla called "very amusing. The holes are in a pattern of short squares and longer rectangles -- almost like dots and dashes of Morse code." And what does it spell out in Morse code? JPL.

According to JPL, Curiosity is about the size of a small SUV -- 10 feet long (not including the arm), 9 feet wide and 7 feet tall -- or about the height of a basketball player -- and weighs 2000 pounds. It features a geology lab, rocker-bogie suspension, a rock-vaporizing laser and lots of cameras. Curiosity will search areas of Mars for past or present conditions favorable for life and for conditions capable of preserving a record of life. It is set to launch between November 25-December 18, 2011 from Cape Canaveral, Florida and will arrive on Mars between August 6-20, 2012. The prime mission will last one Mars year, or about 23 Earth months.

From *The ARRL Letter*, March 31, 2011

## PUZZLE #6 – A CBer SHORT CHANGED

Diesel Smoke, a truck driving CBer, and his two relief drivers, Yakyak and Skipper, go into the Radio Shed CB store.

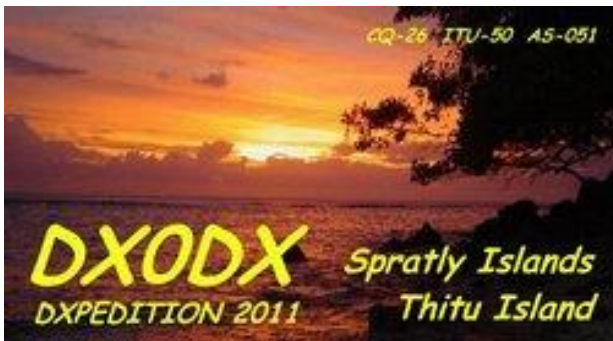
They buy a KW CB antenna with quick mirror mount for \$60, kicking in \$20 each.

After they leave the store, the manager discovers that he overcharged them. He sends the bag boy down the street after them with a \$5 refund. The bag boy can't evenly divide the \$5 three ways, so he pockets \$2 and gives them each \$1.

That makes the antenna cost each man \$19, or \$57 total. If we add this \$57 to the \$2 the bag boy kept, we get a total of \$59. Yet the men paid \$60. Where is the other dollar?

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## SPRATLY ISLANDS POSTPONED



In the March 3 edition of The Daily DX, Editor Bernie McClenny, W3UR, reports that the planned DXpedition to the Spratly Islands has been postponed until April 2012. According to DX0DX Team Leader Chris Dimitrijevic, VK3FY, the postponement is due to circumstances beyond the control of the DX0DX Team and "in the best interests of the Team of Operators." The DX0DX DXpedition was originally scheduled to run January 6-February 1, 2011. Spratly currently sits at #32 on DX Magazine's "Most Wanted" List.

From *The ARRL Letter*, March 3, 2011

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Some years ago, to the despair of the old-timers, filter condensers became filter capacitors, by-pass condensers became by-pass capacitors. Now the old condenser-type loudspeakers are being marketed as "electrostatic speakers." But the condenser microphone, which has also been around a long time, is still called a "condenser microphone." How come?

## 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 normally held on the first Saturday of the even numbered months but for April the exams will be conducted in conjunction with the tailgate Hamfest on Saturday, April 16 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 Genoino, 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 Wednesday of every month at 7 PM. The contact person is Larry Puccio, K2QDY, 732-349-2950 or lpuccio1@comcast.net. See the HCARC website [www.hcarc.us](http://www.hcarc.us) for directions to the site.

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.

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## EARLY AIR CONDITIONING

Alexander Graham Bell had the first air conditioned house in Washington, DC. In 1911, Alex rigged up an electric fan which blew air through a box holding 1500 pound of ice. Asbestos-covered pipes distributed the cold air through the house.

According to the Popular Mechanics article at that time, A. G. Bell kept his room temperature at 61 degrees while it was 90 degrees outside. We wonder if he ever invited the iceman in for a cold one after the poor klotz had hauled in all of that ice.

## TEN YEARS AGO

The April 2001 Propagator reported the following: Marty, WN2DX was organizing for Field Day and already had several volunteers filling various roles. Guest at the March 7 meeting was Bill Hudzik, W2UDT who was running for Section Manager for NNJ. An application for membership was received from Ray Lett, W2NXG and his membership was unanimously approved. Leo Deeny, WA2ESZ became a silent key. The newly formed Middletown Amateur Radio Club was formed and held their first meeting on March 20. Jeff, K2RFI is bringing up a new repeater in Brick on 146.49 with a 1 MHz split. Plans are to incorporate it into the 440 linked system of Eric, KK2ED.

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## FIFTEEN YEARS AGO

From the April 1996 Propagator: Bruce, K2QXW has set up a home page for GSARA on the internet with links to other clubs, the ARRL, Dayton Hamvention, etc. Members were invited to submit their e-mail address so that it can be added to the roster. Rich Krohn, N2SMV was voted in as a member of GSARA.

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## TWENTY YEARS AGO

From the April 1991 Propagator edited by Elena Worrall, N2ITL: This is the last Propagator being edited by Elena. Al Allen, K2LG has agreed to take over as editor with the June-July issue. Leo Deeny, WA2ESZ moved to New Hampshire but continues to stay in touch on 3.860 MHz at 8 pm each evening. Phil Petersen, W2DME (SK) had an article about the phone patches being run at Ft. Monmouth for Desert Shield. A new badge for GSARA was designed by Mike, K2CTJ (SK) and John, KA2F and includes the GSARA logo on the left side with name and call on the right. (It looks very much like our current badges – Ed.)

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## TWENTY FIVE YEARS AGO

From the April 1986 Propagator edited by John King, KA2F: Featured speaker for the April 2, 1986 meeting was Ed, KB2FE from the Old Bridge Repeater Association talking about slow scan television. The GSARA was asked to provide two-meter communications for the Walk For Mankind on Sandy Hook in April.

## ANSWER TO LAST MONTH'S PUZZLE

Well the CW palindrome puzzle last month was a complete bust. Not one person submitted a single Morse code CW palindrome!

After coming up with what I thought was a pretty good list of CW palindromes, I thought I would do a web search for “Morse Code Palindromes” and found [www.brownielocks.com/morsecodepalindromes.html](http://www.brownielocks.com/morsecodepalindromes.html) which added significantly to my list. My final list is:

A GOWN	AN
ANT POOP TAN	ANT TAN
BEV	EMIT TIME
ERE	FEEL
FEVER REBEL	FOOL
FOOTSTOOL	GETS STEW
GMT TMW	GNAW
GA NW	KAISER RESINK
KOOK	LOOP POOF
MOM	NANA
NW GA	OLD UFO
OTTO	OUTDO
PEEP	PETS STEP
POOF LOOP	POOP
POP	POP POP
POT TOP	QNR RAY
QRY	QSY
RAY QNR	REBEL FEVER
RESINK KAISER	ROBERT TREVOR
ROTOR	SEES
SEXES	SOLD UFOS
SOS	STEP PETS
TAN ANT	TANG WANT
TAN POOP ANT	TAINT
TIME EMIT	TIT
TMW GMT	TOOT
TOP POT	TOP ROTOR POT
TOT	TXT
UFO OLD	UFOS SOLD
USD	WAITING
WANG	WANT TANG
WIG	WKG
73	

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Nothing is impossible – as long as you don't have to do it yourself.



## NOTES ON CALENDAR (see last page)

Large call letters denote birthdays e.g. W2AOJ April 14. All times are EDST. Contests are listed in the April QST, p. 80.

April 2-3 – **Trenton Computer Festival and ARRL NJ State Convention** from 10 am Saturday to 3:30 pm Sunday at The College of New Jersey, Ewing, NJ. See [www.tcf-nj.org](http://www.tcf-nj.org) for more information.

April 3 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.

April 4 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

April 5 – **Middletown Pancake House Luncheon** at noon at left rear table. All are welcome.

April 5 – **Monmouth Amateur Radio Club meeting** at 7 pm in Union Beach Police Annex (Municipal Building) on Poole Avenue.

April 5 – **Old Barney ARC Meeting**, 7:30 pm at Ocean Acres Community Center in Manahawkin, NJ. See <http://www.obarc.org>

April 5 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

April 6 – **GSARA Meeting** at 7:30 PM at the Red Cross, West Park Ave. and Shafto Road in Tinton Falls.

April 7 - **W1AW Qualifying Run** at 9 am (10-35 wpm). See April QST, p. 79 or [www.arrl.org/w1aw](http://www.arrl.org/w1aw)

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

April 9 – **OMARC Meeting**, 9:00 am at the Diana Site on Marconi Road, Wall, NJ. Guests are welcome.

April 9-10 – **QCWA QSO Party** from 2 pm Saturday to 2 pm Sunday. All modes. See <http://www.qcwa.org/qso-party.htm>

April 11 – **144 MHz Spring Sprint** from 7 to 11 pm. All modes. See [sites.google.com/site/springvhfupsprints](http://sites.google.com/site/springvhfupsprints)

April 11 - **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

April 12 – **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](mailto:n2pvp@n2pvp.com)

April 13 – **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](mailto:lpuccio1@comcast.net)

April 14 – **Jersey Shore Amateur Radio Society (JSARS)** meeting in Riverview Park Recreation Building, Rt. 527 and Riverwood Drive in Toms River at 7:30 pm.

April 16 – **OMARC Tailgate Hamfest** at the Diana site off Marconi Road in Wall, NJ. See page 1.

April 17 – **ARRL Rookie Roundup**, Phone from 2 pm to 7:59 pm. See [www.arrl.org/contests](http://www.arrl.org/contests)

April 18 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

April 19 - **222 MHz Spring Sprint** from 7 to 11 pm. All modes. See [sites.google.com/site/springvhfupsprints](http://sites.google.com/site/springvhfupsprints)

April 20 – **GSARA Meeting** at 7:30 pm at the Red Cross in Tinton Falls. Gale McNamara will talk about undersea cables.

April 21 – **W1AW Qualifying Run** at 4 pm (35-10 wpm). See April QST, p. 79 or [www.arrl.org/w1aw](http://www.arrl.org/w1aw)

April 21 – **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](mailto:wa2nda@comcast.net).

April 23 – **Neptune Amateur Radio Club Meeting** at 9 am at the American Legion on Gully Road.

April 25 - **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

April 27 - **432 MHz Spring Sprint** from 7 to 11 pm. All modes. See [sites.google.com/site/springvhfupsprints](http://sites.google.com/site/springvhfupsprints)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2 TCF & NJ Conv.
3 TCF & NJ Conv. InfoAge	4 ARES/RACES 7:30	5 Pancake House MARC Mtg 7 PM Old Barney ARC QCWA News 9 PM	6 GSARA Mtg	7 CW Qual. Run Hol. City Mtg.	8	9
10 InfoAge	11 144 Sprint RACES Net 7:30	12 Croyden VE 7 PM QCWA News 9 PM	13	14 W2AOJ JSARS Mtg.	15	16 OMARC Mtg Hol. City VE
17 Rookie Roundup InfoAge	18 ARES/RACES 7:30	19 222 Sprint QCWA News 9 PM	20 GSARA Mtg.	21 W2SHS CW Qual. Run JSARS VE	22 N2HGI	23
24 Easter InfoAge	25 W2OD RACES Net 7:30	26 QCWA News 9 PM	27 432 Sprint	28	29	30 Neptune Mtg
31 InfoAge						



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FIRST CLASS