



Holmdel, NJ 07733
Editor: Bob Buus, W2OD

THE PROPAGATOR

APRIL 2012

UPCOMING GSARA MEETINGS

The next GSARA meeting will be held on **Wednesday, April 3 at 7:00 PM** at the Red Cross. **Note that this is a half hour earlier than our regular meetings.** We will be showing the movie "Empire of the Air" which chronicles the early development of radio through the contributions and interactions of Lee DeForest, Edwin Armstrong, and David Sarnoff. Popcorn will be served and guests are always welcome.

The second GSARA meeting for April will be held on **Wednesday, April 20 at 7:30 PM** at the Red Cross. This will be a regular business meeting. Guests are always welcome and light refreshments will be served.

GSARA NET 8:30 PM TUESDAYS

Did you know that there is a get-together of GSARA members on the Asbury Park repeater every Tuesday at 8:30 pm? Although it is called a net, it is very informal and you are welcome to comment on anything that comes to mind. In the six sessions since February 12 (when the net was started), we have had 24 check-ins for an average of only 4 per session. Hats off to the following 13 members who have checked into this net at least once (number of check-ins in parenthesis):

W2OD (6), K2QXW (4), W2AOJ (2), W2HTS (2), N2LXM (2), K2EPD (1), KD2DNV (1), NJ2H (1), N2HGI (1), KA1PCY (1), N2VEH (1), W2XYZ (1), KC2YNL (1).

GSARA HOMEPAGE

<http://www.gardenstateara.org>

HUDSON DIVISION HOME PAGE

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

ROSTER CHANGES

Cy Stanway, VE2IFS got his General Class U.S. license and was assigned the call KD2D-NV. He next passed his General Exam and has obtained the vanity call K2CYS. Please correct your GSARA roster to the following:

K2CYS, Cy Stanway
44 Lambert Johnson Dr.
Ocean, NJ 07712
732-768-7773
rabbicy@msn.com

I assume that his old e-mail address of ve3ifs@arrl.net will soon be changed to k2-cys@arrl.net.

John King, KA2F had his e-mail hacked and had to change his e-mail address from ka2fka2f@yahoo.com to ka2fwb2hdj@gmail.com. Please change your Roster accordingly.

Len Kline, WA1PCY has changed his e-mail address to walpcy@verizon.net. Please change your Roster accordingly.

VE TEST SESSION APRIL 9

GSARA conducts a VE test session every month on the second Saturday at 11:00 am at the Red Cross. In April, the exam will be given on April 9. 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. Also bring 2 forms of ID with one being a photo ID. For more information, contact Frank, W2XYZ at 732-942-7705 or w2xyz@arrl.net.

GSARA OFFICERS

President	W2XYZ	Frank Wroblewski	942-7705
Vice Pres.	W2HTS	Howard Suffill	460-1885
Secretary	W2OD	Bob Buus	946-8615
Treasurer	K2QXW	Bruce McLeod	946-4368
Engineer	N2WLH	Steve Jackson	255-7916
Webmaster	KE2V	Vince Rosati	229-3283
Publicity	NJ2H	Bill Shockley	207-4466
Repeater	N2LXM	Jeff Harshman	922-0816
Trustees	W2KQ	Joe Dreifuss	493-4236
	W2OD	Bob Buus	946-8615
	W2HAM	Lou Russo	842-6431

DX MEETING EACH LAST MONDAY

For those interested in DX or learning about how to chase DX, there is a meeting of DXers on the last Monday of each month at 7:30 PM at the Red Cross. The last Monday of April is on the 25th so mark your calendars if you would like to attend.

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

The March 6 GSARA meeting was cancelled due to bad weather. Therefore, the March program has been moved to April 3 when we will show the "Empire of the Air" video. Since this video is an hour and 50 minutes long and we don't want the meeting to last past 9 pm, we will start the meeting at 7 instead of 7:30. I hope many of you can make it as this is a very interesting story.

I was disappointed with the "Last Man Standing" TV show in March which featured an operating amateur radio station. I didn't think that it reflected what amateur radio is all about and I didn't think that it was particularly funny but maybe I've become a crotchety old man.

There are several proposals to upgrade the GSARA club stations (see the Executive Meeting minutes on p. 3 and the Survey on page 4). The officers of GSARA would like to know what you think of these various proposals and will act according to the wishes of the majority of the members. Please let Frank know which option you prefer.

I found the article from the Red Bank Register newspaper (p. 5) interesting. This was the first Field Day after WWII and I found it impressive that JSARA (not to be confused with the current JSARS in Toms River) got 27 members to operate 8 transmitters for this event. First place nationally was quite a feat (it still is). John, KA2F has submitted several other articles from the Red Bank Register in the late 40s which I will run in subsequent Propagators. By the way, for you youngsters, the Red Bank Register was a daily newspaper in Red Bank that went out of business several years ago.

If you are interested in obtaining a 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.

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 20 MEETING**

By Bruce McLeod, K2QXW, Treasurer

President Frank Wroblewski, W2XYZ called the meeting to order at 7:30 PM at the Red Cross Building. There were 19 members present. After the pledge to the flag, all present introduced themselves.

Secretary's Report

A motion was made by Joe, W2KQ, and seconded by Laura, N2HGI to accept the secretary's report from the last meeting as will be published in the February Propagator. The motion passed unanimously.

Treasurer's Report

Because of bad weather and good programming, we had no treasurer's report in February. So, Treasurer Bruce, K2QXW, gave a report that covered two months. A motion was made and seconded to accept the report. The motion passed unanimously.

Hamfest

John King, KA2F reviewed the preparation for the upcoming GSARA Hamfest which will be on Saturday, May 4th at our usual site at MOESC (MAECOM) at the corner of Tornillo Way and Shafto Road. Because of reasons beyond our control KJI Electronics will not be there. We will have VE testing available.

New Equipment Proposals

Before the meeting the club officers met to discuss the feasibility of upgrading the HF equipment in the clubhouse. Their ideas were presented to the membership during the regular meeting. The goals of the upgrade are to provide two operating positions with close to identical transceivers, to introduce and/or expand computer control of the rigs, to accomplish all this without incurring extraordinary expense. Some of the monies required will come from the sale of outdated equipment that the club currently owns. Two or three scenarios will be generated and submitted to the membership via email. These scenarios will suggest models, makes, and approximate prices. Comments and suggestions will be appreciated. It would be nice if much of

the new equipment were on hand for the coming ARRL Field Day in June.

ARRL Operating Awards

John King has spent considerable time and effort in researching the W2GSA confirmed contacts with the view toward earning the WAS and DXCC awards. Without really pushing for those awards, the club finds itself amazingly close to having the necessary confirmed contacts. It was moved and seconded (KA2F and N3RB) and unanimously approved that John should pursue these awards and that the club should authorize up to \$60 for related expenses.

Mini Program

Bruce, K2QXW, played a 9-minute YouTube video highlighting some of the technical exploits of the famous actress of yesteryear, Hedy Lamarr. What a woman! What a brain! What a woman!

Announcements

The Splitrock Amateur Radio Ass'n is holding their Hamfest on Saturday, April 20th at the Roxbury Senior Center. More information is available at <http://www.splitrockara.org>.

Close

The door prize of \$16.00 was won by Lance Andrew. There being no further business, a motion to adjourn was made by George Graulich and seconded by Steve Jackson. With unanimous vote, the meeting was adjourned at 8:40 pm.

MARCH 20 EXECUTIVE MEETING

By Bruce McLeod, K2QXW, Treasurer

President Frank Wroblewski, W2XYZ called the meeting to order at 6:30 PM at the Red Cross Building. It was attended by Frank Wroblewski, Howard Suffill, Bill Shockley, Joe Dreifuss, Steve Jackson, and Bruce McLeod.

New Equipment Proposals

The club officers met mainly to discuss the feasibility of upgrading the HF equipment in the clubhouse. The goals of the upgrade are to provide two operating positions with close to identical transceivers, to introduce and/or expand computer control of the rigs, to provide an operating environment that is easy to learn and operate, to accomplish all this without incurring

extraordinary expense. We discussed the addition of a new Icom IC-718 (priced at \$709) to complement the existing model. We also discussed shelving the existing IC-718 and acquiring two Yaesu FT-450D's or maybe two Yaesu FT-950's. The former are priced at around \$875 apiece. The latter at around \$1260 apiece.

Another option is of course to keep the status quo. Nobody thought that this was a good idea.

Some of the monies required will come from the sale of outdated equipment that the club currently owns. Frank suggested that we should be able to make up \$1500 from such a sale. Hopefully we can determine what to sell in time for the May 4th hamfest. Two or three scenarios will be generated and submitted to the membership via email. These scenarios will suggest models, makes, and approximate prices. Comments and suggestions will be appreciated. It would be nice if much of the new equipment were on hand for the coming ARRL Field Day in June.

Staffing the Clubhouse on Saturdays

Frank noted that the 2nd Saturday of the month is about all the coverage he could manage. There should be one person available to unlock (and lockup) the clubhouse every Saturday. Preferably it should be an officer since the officers have building access. This topic was not discussed in detail because we spent the whole time talking about equipment considerations.

RETIREMENT COMMUNITY QUERY

I am looking into two over-55 retirement communities - Equestra in Farmingdale, or The Fairways at Lake Ridge in Lakewood. I am interested in finding out if there are any radio amateurs in either place, and what their experiences with antennas are.

The Home Owners Associations generally forbid tower-mounted antennas but the wording about wire antennas is vague. (Satellite dishes up to 36 inches diameter are permitted.)

Thanks and 73,

Vince Rosati, KE2V
732-229-3283
v.rosati@ieee.org

A SURVEY OF GSARA MEMBERS

By Frank Wroblewski, W2XYZ

We wish to ask GSARA members if they want to upgrade the clubhouse stations. We'd like to get modern, easy-to-operate radios, all of the same type. The advantages of the easy instead of high-performance style is; operation is quick to learn and remember, and most bells and whistles are not used in contests or Field Day anyway. Modern radios integrate with computers and amplifiers easier than the older equipment now being used.

We'd like to hear the members opinions on whether to upgrade or not and also on how we should upgrade, if that is what the majority would like to happen. Although there are many manufacturers and dozens of models to choose from we narrowed the choices down to a few.

A. No upgrades

B. Keep the current IC-718 and purchase a new IC-718 with filters and tuner for approximately: $\$745+300+200 = \1245

C. Purchase two new Yaesu FT-450D's with filters and tuner included at approximately: $\$1900-140(\text{rebate}) = \1760

D. Purchase two new Yaesu FT-950's (filter not needed) at approximately: \$2840

E. Don't purchase radios, just sell the two Collins amps and if necessary, add money from the treasury and buy a solid-state, no-tune amplifier such as: Ameritron ALS-600S for \$1500.

Where does the money come from? If we were to upgrade, we would attempt to sell the two Kenwood TS-930S transceivers, the Collins 30L1 amplifier, and the Collins S1 amplifier (as is). Depending on the amount of funds received from these sales, we may or may not have to use money from the treasury, again depending on the choice of replacement radios.

Please let me know your preference (A through E) by an e-mail vote, or verbal reply by phone or at the meeting on Apr 3 (for those without email).

Frank, W2XYZ
w2xyz@arrl.net
732-942-7705

1946 FIELD DAY RESULTS

From the *Red Bank Register* March 13, 1947

NATIONAL RADIO CONTEST WON BY SHORE GROUP AMATEUR OPERATED STATION AT CRAWFORD'S HILL

The Jersey Shore Amateur Radio association (*one of the two clubs that later formed GSARA – Ed*) won first place in the yearly competition sponsored by the American Radio Relay league of Connecticut. The contest was open to all amateur radio associations in the United States and any amateur operator. The contest was held last June.

The purpose of the contest, as explained by Robert Brandt of Newman Springs road, president of the shore group, is to test and develop emergency powered equipment. The Idea of the contest was to set up field stations and contact more amateur stations in the United States than any other contesting group. The Jersey Shore group operated eight transmitters and used 27 operators at their field station at Crawford's hill, between Hazlet and Holmdel. This is considered the highest point in Monmouth County.

Mr. Brandt reports that 309 other stations were contacted and gas generated motors supplied the power. The group operated on all amateur bands from 3.5 to 144 megacycles. The call letters used were W2FC. The local group made 9,621 points to acquire the highest total in the contest. The results of the contest were just made official recently.

In several pre-war competitions the Jersey shore association won several second-place honors. Edward Chinnock of Red Bank is vice president of the group. The local unit will hold a convention in Asbury Park in the fall for the Hudson division of the American association. The Hudson division comprises most of the states of New Jersey and New York.

Thanks to John King, KA2F for this article

TWO NEW ARRL BOOKS

The ARRL has released two new books: [Ham Radio for Arduino and PICAXE](#) edited by Leigh L. Klotz Jr, WA5ZNU, and [Radio Science for the Radio Amateur](#) by Eric Nichols, KL7AJ.

Ham Radio for Arduino and PICAXE

Microcontroller technology has exploded in popularity among ham radio operators. The new generation of single-board microcontrollers is easier than ever to use, bringing together hardware and software for project building that radio amateurs can easily dive into. With inexpensive microcontroller platforms -- such as the popular open-source Arduino board -- readily available parts, components and accessory boards, you can create beacon transmitters, keyers, antenna position control, RTTY and digital mode decoders, waterfall displays and more.

Editor Leigh L. Klotz Jr, WA5ZNU, has assembled this first edition of *Ham Radio for Arduino and PICAXE* to help introduce radio amateurs to the fun and rewards of experimenting with microcontrollers. Klotz and other contributors have designed projects that will enhance your ham radio station and operating capabilities, or you can use these projects as a launch pad for creating your own projects.

Radio Science for the Radio Amateur

In *Radio Science for the Radio Amateur*, Eric Nichols, KL7AJ, explores and explains the often profound differences between science and technology, dispelling the notion that we know all there is to know about radio. Using a fresh, playful approach, Nichols guides readers through some of the most fascinating "nooks and crannies" of the radio universe. Along the way, you'll find out how solving long-standing mysteries of radio -- of which there are still many -- doesn't require expensive hardware, but merely a scientific mindset and attention to detail.

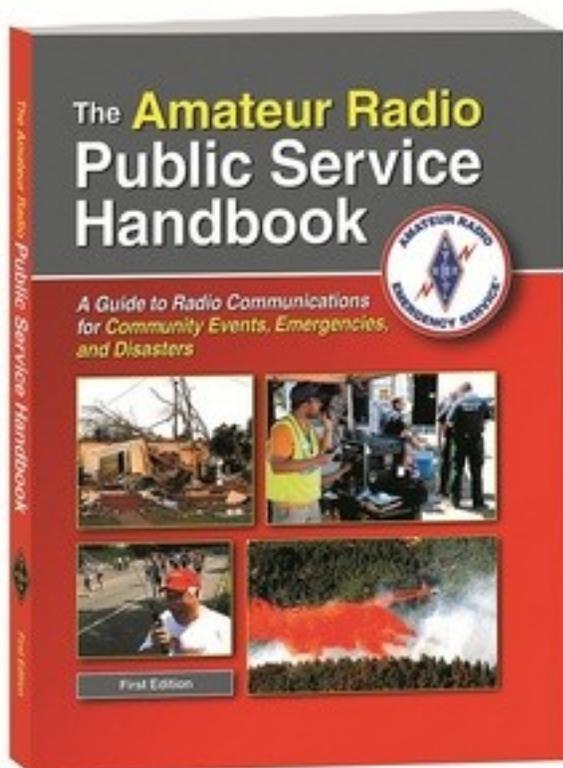
These new publications are available from your [ARRL Dealer](#) or the [ARRL Store](#). [Ham Radio for Arduino and PICAXE](#) (ARRL Order No. 3244), ISBN 978-0-87259-324-4, \$34.95 retail, special ARRL Member Price \$29.95, plus shipping; [Radio Science for the Radio Amateur](#) (ARRL Order No. 3381), ISBN 978-0-87259-338-1, \$27.95 retail, special ARRL Member Price \$24.95, plus shipping.

From *The ARRL Letter*, March 14, 2013

"We don't like their sound, and guitar music is on the way out." -- Decca Recording Co. rejecting the Beatles, 1962.

PUBLIC SERVICE BOOK ON KINDLE

The [Amateur Radio Public Service Handbook](#) is now available from amazon.com for the Kindle.



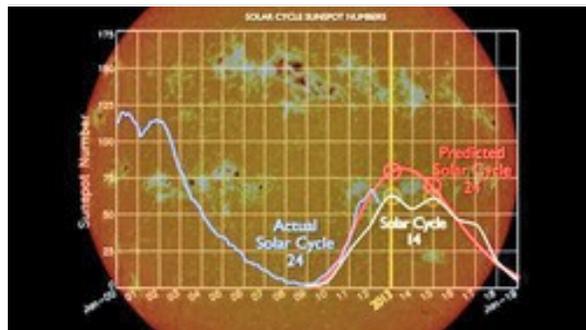
This e-book is for all hams who volunteer their time and skill in service to their communities. It provides knowledge needed for communicating quickly and effectively during disasters, emergencies and community events, as well as an opportunity to learn more about the Amateur Radio Service and its unique role in supporting the public.

You do not need a Kindle to download and purchase The Amateur Radio Public Service Handbook: those who have the Kindle application installed on their Apple iPhone, iPod touch or iPad or Android smartphone -- or even on their computer -- can download the book for use on these devices. The Amateur Radio Public Service Handbook is available as a Kindle book from amazon.com for \$24.99. The [soft cover version](#) is also available for \$39.95 (\$34.95 for ARRL members).

From *The ARRL Letter*, March 21, 2013

DOUBLE PEAK FOR CYCLE 24?

According to NASA, the current solar cycle --



This NASA image compares Solar Cycle 14 (shown in white) with our current cycle, Solar Cycle 24 (shown in blue and red). Dean Pesnell of NASA's Goddard Space Flight Center is predicting that Solar Cycle 24 will have a "double peak," just as Solar Cycle 14 did in the first decade of the 20th century. Pesnell predicts that Solar Cycle 24 will peak twice -- once in late 2013 and again in 2015. View a larger image [here](#).

Solar Cycle 24 -- should hit its "solar max" sometime in this year, but so far, solar activity has been relatively low. According to an article by NASA's Dr Tony Phillips, this period of quiet has led some observers to wonder if forecasters missed the mark. But solar physicist Dean Pesnell of NASA's Goddard Space Flight Center has a different explanation: "This *is* solar maximum. But it looks different from what we expected because it is double peaked." Pesnell noted similarities between the current cycle and Solar Cycle 14, which happened between February 1902 and August 1913 and experienced a double peak. If the two cycles are in fact twins, he said that "it would mean one peak in late 2013 and another in 2015." Read more [here](#).

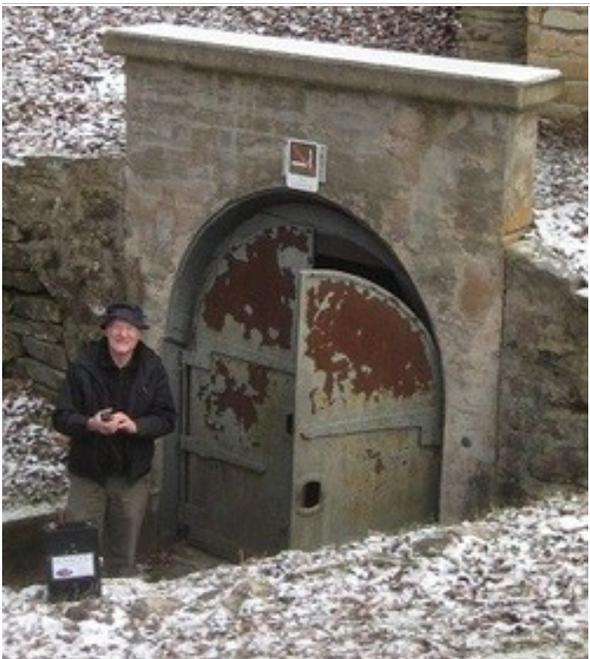
From *The ARRL Letter*, March 14, 2013

"Man will never reach the moon regardless of all future scientific advances." -- Dr. Lee DeForest, Radio Pioneer and inventor of triode vacuum tube.

"Heavier-than-air flying machines are impossible." -- Lord Kelvin, president, Royal Society, 1895.

APRS GOES UNDERGROUND

Bob Bruninga, WB4APR, led a group of radio amateurs earlier this month to Mammoth Cave -- the world's longest known cave system -- at Mammoth Cave National Park in Kentucky to test how the Automatic Packet Reporting System (APRS) can be used as a means to extend radio communications underground. "When used underground, VHF and UHF radios can only work



APRS developer Bob Bruninga, WB4APR -- an APRS-compatible handheld transceiver in hand and digipeater box in front of him -- at one of the entrances to Mammoth Cave.

within a few hundred feet of each other and only when in the line of sight of another radio," Bruninga explained. "This makes routine use of these radios of little value when underground; however, when APRS radios act as packet digipeaters, these few hundreds of feet can be extended by an order of magnitude." Bruninga, a senior research engineer at the US Naval Academy, developed APRS as a global, on-air protocol for supporting handheld position reporting and text messaging via VHF radio. Read more [here](#).

From *The ARRL Letter*, March 14, 2013

NEW GLOBAL FOREVER STAMP



In addition to an [increase](#) in postal rates in January 2013, the US Postal Service introduced a new [Global Forever First-Class Mail International stamp](#). Priced at \$1.10 each and offered in a pane of 20, the *new*

stamp offers a single price for any First-Class Mail International 1-ounce letter to any country in the world, as well as 2-ounce letters to Canada. The stamp is available [online](#), at post offices in the US or by calling 1-800-782-6724. -- Thanks to ARRL Oklahoma Section Manager Kevin O'Dell, N0IRW, for the information.

From *The ARRL Letter*, March 14, 2013

TEN YEARS AGO

From the April 2003 Propagator: Marconi Chapter 138 of the QCWA is holding a dinner-dance at the Waterview Pavilion in Belmar on April 27. Music is by Joey Arminio & the Family consisting of Joe, K1SAX; Doreen, K2HLO; and Nick, KC2FAL.

Frequencies were given for those wishing to monitor the Iraq war communications. Ray, W2NXG invited kids to his shack for Kid's Day in January and all had a good time.

FIFTEEN YEARS AGO

From the April 1998 Propagator: 16 members have volunteered to receive The Propagator by e-mail only, thus saving GSARA some printing and postage costs. Don Pingitore, formerly KC2BTF upgraded to Advanced and changed his call to KG2NV. Chapter 138 of the QCWA will hold their annual awards banquet on May 3 at the Fort Monmouth Officers Club. There was an article giving the history of why the code speed for an amateur license was increased from 10 wpm to 13 WPM on June 3, 1936. Lowell Bellingham, W2HXJ became a silent key.

\$10,000 FINE FROM FCC

On February 25, the FCC issued a Notice of Apparent Liability for Forfeiture (NAL) in the amount of \$10,000 to Jared A. Bruegman, ex-KC0IQN, of Bolivar, Missouri. The FCC said that Bruegman "apparently and willfully violated Section 301 of the Communications Act of 1934, as amended by operating an unlicensed radio transmitter on the frequency 14.312 MHz in Bolivar, Missouri." Bruegman -- who does not currently hold an Amateur Radio license -- was operating in the phone portion of the 20 meter band that is assigned to the Amateur Radio Service on a primary basis; his Amateur Radio license expired in 2010. As a former Technician class licensee, he did not have privileges to operate in that portion of the 20 meter band when he held an Amateur Radio license.

In December 2012, the FCC's office in Kansas City received a complaint from an Amateur Radio operator, reporting interference on 14.312 MHz. Upon investigation, agents from that office heard a male voice transmitting on the frequency 14.312 MHz. Using direction finding equipment, the agents located the source of the radio frequency transmissions to a transmitting antenna mounted on a pole next to Bruegman's residence. The agents determined that the signals on 14.312 MHz exceeded the limits for operation under Part 15 of the Commission's rules and therefore a license was required to transmit. The agents further discovered that Bruegman did not hold a license to operate a radio transmitter on 14.312 MHz at or near that location.

The agents determined that the source of the transmissions was coming from an unlicensed radio transmitter from a bedroom in Bruegman's residence. "Mr Bruegman was the only person present in the bedroom and the only male in the residence during the inspection," the NAL stated. "Mr. Bruegman admitted to the agents that he owned the radio transmitter. The agents observed that the transmitter was turned on and tuned to 14.311 MHz. Mr. Bruegman told the agents that he had no current Commission licenses, but that he previously held an Amateur Radio license, call sign KC0IQN. Mr. Bruegman told the agents he would remove the microphone from his transmitter and only use it as a receiver."

Section 503(b) of the Communications Act provides that "any person who willfully or repeatedly fails to comply substantially with the terms and conditions of any license, or willfully or repeatedly fails to comply with any of the provisions of the Act or of any rule, regulation, or order issued by the Commission thereunder, shall be liable for a forfeiture penalty." In addition, Bruegman was found to be in violation of Section 301 of the Communications Act, stating that "no person shall use or operate any apparatus for the transmission of energy or communications or signals by radio within the United States, except under and in accordance with the Act and with a license granted under the provisions of the Act."

Bruegman has until March 27, 2013 to pay the forfeiture in full, or file a written statement seeking its reduction or cancellation.

From *The ARRL Letter*, February 28, 2013

TWENTY YEARS AGO

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

TWENTY FIVE YEARS AGO

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

NOTES ON CALENDAR (see next page)

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

April 1 – **144 MHz Spring Sprint**, all modes from 7 pm to 11 pm. See <http://sites.google.com/site/springvhfupsprints>

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

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

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

April 3 – **GSARA Meeting** at 7:00 (note earlier start) at the Red Cross. “Empire of the Air” movie.

April 4 - **Holiday City ARC meeting** at 7 pm at Holiday City South Clubhouse in Toms River.

April 4 - **WIAW Qualifying Run** at 9 am (10-35 wpm). See www.arrl.org/qualifying-run-schedule

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

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

April 9 – **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

April 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

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

April 13 – **OMARC Meeting**, 9:00 am at the Spring Lake Firehouse on 5th Avenue. Guests are welcome.

April 13-14 – **Japan DX Contest, CW** from 3 am Saturday to 9 am Sunday. See <http://www.jidx.org>

April 13 – **GSARA VE Test Session** at 11 am at Red Cross in Tinton Falls. Contact Frank Wroblewski, W2XYZ at 732-942-7705 or e-mail at w2xyz@arrl.net

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

April 16 – **222 MHz Spring Sprint**, all modes from 7 pm to 11 pm. See <http://sites.google.com/site/springvhfupsprints>

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

April 18 – **WIAW Qualifying Run** at 4 pm (10-35 wpm). See <http://www.arrl.org/qualifying-run-schedule>

April 18 – **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.

April 20 – **Split Rock NJ Hamfest** at Roxbury Senior Center. See <http://www.splitrock.org>

April 21 – **ARRL Rookie Roundup, Phone** from 2 pm to 7:59 pm. See <http://www.arrl.org/contests>

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

April 24 – **432 MHz Spring Sprint**, all modes from 7 pm to 11 pm. See <http://sites.google.com/site/springvhfupsprints>

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

April 29 – **GSARA DX Interest Group** at 7:30 pm at the Blue Swan Diner in Ocean, NJ.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 144 Sprint ARES/RACES 7:30	2 GSARA Net 8:30 QCWA News 9 PM	3 GSARA Mtg. 7 PM	4 CW Qual. Run Hol. City Mtg.	5	6
7 InfoAge	8 KE2V RACES Net 7:30	9 Croyden VE 7 PM QCWA News 9 PM	10 Hol. City VE	11 JSARS Mtg.	12	13 OMARC Mtg GSARA VE Japan DX CW
14 W2AOJ Japan DX CW InfoAge	15 ARES/RACES 7:30	16 222 Sprint QCWA News 9 PM	17 GSARA Mtg.	18 KD2ACJ CW Qual. Run JSARS VE	19	20 Splitrock Hamfst
21 W2SHS InfoAge Rookie Roundup	22 N2HGI ARES/RACES 7:30	23 QCWA News 9 PM	24 432 Sprint	25 W2OD	26	27
28 InfoAge	29 RACES Net 7:30 DX Meeting 7:30	30 QCWA News 9 PM				



G.S.A.R.A.
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FIRST CLASS