

CROSSTALK

Volume 55

Issue #04

Celebrating Our 55th Year

April 2014



President's Message



Finally! Spring is sprung! It was great to have a chance to see some familiar faces again and socialize a bit at the March club meeting after all the bad weather we've had for the past few months.

If you missed it, our guest speaker for that evening was our own John Zaruba, K2ZA, who put on a very informative presentation about amateur radio satellites and accessing them. Just goes to show you how diverse the interests in our shared hobby really can be! The next day, I admit it, I went to the AMSAT web site, and then listened at the appointed time for the beacon of a passing satellite. Sure enough, just as John had taught us, there were the Morse code dits and dahs drifting down from higher to lower tones on my 2 meter radio until they disappeared about a minute later, due to Doppler shift, just as he had advised us. A copy of the slides from his "Rocket Science that you can do!" presentation are now posted on our web site under the "Club Programs and Events" then "Past Programs/ Events" tab on the left side of the home page. Anybody else give it a try yet?

March also brought us the highly anticipated "Spring has Sprung" radio direction finding foxhunt club event. What fun! We ended up with a near record breaking six chase cars in the hunt for the tackle-box size transmitter, including several first time hunters. Congratulations to veteran hunter Jeff Garth, KC2WCS on his first win! Jeff was first to find it hidden under a pile of dried leaves in a park off of Route 47 just down the road from the Clayton EOC. Some pictures have now been posted under the "GCARC Fox Hunts" tab on the left side of our web site. Who wants to give it a try next time?



For April, more fun stuff is on the way. Check out the special guest speaker that our Programs chair has lined up for the April 2nd meeting. This should be a real treat. Also for April is the possibility of working with a local Boy Scout troop to demonstrate ham radio to their members and parents. Then later in the month, GCARC has been invited to be guest operators on board the Battleship New Jersey! More details, and sign-ups to secure your spot for this event, will be available at the April club meeting.

If that wasn't enough, the repeater committee has big plans and news to announce that will affect us this month. Stay tuned! On the Emergency and Public Service front, there may be opportunities to provide radio support to local charity walks. In other news, planning discussions have started for our Field Day in June, and decisions are being made to secure the date and location for our annual Hamfest in September. And then we can talk about this year's summer picnic!

(Continued on page 2)

(Continued from page 1)

I want to say thank you to all members who did "re-up" your dues by the March 31 deadline. For the very few of you stragglers who did not, be sure to get them paid in person at the April 2nd meeting. Unfortunately, our constitution requires us to promptly drop you from the club's membership roll if not paid by then. Nudge, nudge. If you are reading this, please don't let that happen to you.

Lastly, and with sadness in our heart, we regret to announce the passing of long time club member Stu Cleveland, N2WUP. He will be missed.

Hope to see you at the April meeting,
Respectfully, Jim Wright, N2GXJ



Down Jersey DXing

By Bill Grim, W0MHK

The month of March held our DX attention with a number of good openings on the higher bands. The FT5ZM Dxpeditio to Amsterdam Island took up a good deal of interest of DXers in February world-wide with their 130,000 QSOs give or take a few. Hope you found a way to get through to them on ANY band for a new one!

To our DX gain, long path and short path openings to the Far East continued to appear on our favorite DX bands of 10 and 12 Meters during March! With solar flux staying relatively high during the month there were a number of openings on these bands to BV, BY, VR2, V85, and YB. Did you manage to snag any of these goodies for your log???

It seems worth mentioning, that Charlie, VR2XMT, from Hong Kong is an interestingly reliable gauge for openings to the Far East on the higher bands. He often has a very strong signal and is quite used to working the pile-ups efficiently and courteously. Charlie is often spotted on the DX cluster and although he seems to mainly enjoy SSB, you can also find him on CW and RTTY. Many times when propagation favors Down Jersey from his QTH, he will call for "North America only" which really helps our local chances to work him. It nullifies the "wall" of European hams calling him at the same time you are calling. He is an excellent QSL'er and look for him during mornings and early evenings on the high bands. <http://www.vr2xmt.com/>



Looking forward, there are two propagation imperatives for you to get some DX operating time side aside for the next few weeks. First, the spring solar equinox usually "enhances" radio conditions world-wide regardless of the sunspot count. Secondly, a recent propagation prediction in the January issue of CQ Magazine gives a pretty dismal forecast for conditions throughout 2014. Since our present "second peak" seems to be continuing in the present Solar Cycle 24, now and the near future would be excellent times to bear down on trying to work some long-haul DX on the high bands. No one knows how long this second peak will continue on the sun. Next year around this time could be EXTEMELY different from the better propagation we are now experiencing.

In short, you had better make DX happen for yourself while the sun is flaring!!!! Who knows what conditions will be like in spring of 2015 and possibly for decades beyond!!!!

(Continued on page 3)

(Continued from page 2)

Interestingly, there have been some extremely good DX openings for DX stations on 6 Meters in other latitudes from Down Jersey the past 6 months. Some deep and rather long openings have been reported all during our winter from other parts of the world to unusually rare locales. Even our West Coast USA has participated in some of these exceptional conditions. Could it be that the Magic Band will surprise us Down Jersey this year before and after Field Day????? Let's hope so!

With no major contests slated for April (but many minor ones in the offing) the number of DXpeditions has begun to slow with the advent of summer. It looks like your best DX choices below will be mainly to the south and Pacific areas of the world for planned DXpeditions. Try the following DX possibilities for your log and wallpaper:

CALL	DATES	HIGHLIGHTS	DIFFICULTY (5=MOST RARE)	ENTITY
VK9MT	03/28 - 04/09	Multi-Station/Bands/Modes	5	Mellish Reef
5J0X	04/02 - 04/14	80-10M/CW, SB	1	San Andres Island
6W	04/04 - 04/15	160-10M	1	Senegal
A35	04/04 - 04/18	160-10M/CW,SB,TY	3	Tonga
CT9	04/05 - 04/12	80-10M/CW Plus	1	Madeira Island
PJ4	04/05 - 04/18	160-10M/CW,SB,TY	1	Bonaire
KH8	04/09 - 04/20	EU Team/40-10M/CW,SB,TY	3	American Samoa
3D2SE	04/11 - 04/14	40-10M/CW & Digital	3	Fiji
JD1BMH	04/27 - 05/11	40-10M/CW,SB,TY	3	Ogasawara Island
T88ST	04/29 - 05/07	80-6M/SB,CW,TY	3	Palau

Credits : NG3K ADXO



Stuart C. Cleveland, N2WUP - Silent Key

It is with great sadness that we report on the passing of Stuart Cleveland, N2WUP. Stu has been a club member since 1994. He was a club officer and committee chairman at various times during his club membership. Stu was born in Oak Park, Illinois on March 27, 1944. He died on March 12, 2014. Stu resided in Laurel Springs. He is survived by his wife, Susan, two daughters – Catherine and Heather, five grandchildren, two brothers – Keith and David, and a sister – Rebecca. Stuart served in the US Air Force during the Vietnam War. He was a computer technician for Rowan University until his retirement in 2011. He was a member of the Delaware Valley Earth Science Society and the Camden County Emergency Management Team. Share memories at www.oralwoosterfuneralhome.com



Our April Program & More

By Cory Sickles, WA3UVV

Last month, we had a wonderful turnout for John Zaruba, K2ZA’s presentation on easy-to-use satellites. Judging by the consistent flow of questions during John’s presentation, I think it’s safe to say there is a high interest level in satellite communications.

Certainly the FM birds are easy to use and require little in the way of hardware – certainly nothing you can’t use for terrestrial communications, as well. I hope the interest level stays high and we’ll be hearing lots of GCARC members on the air, once the weather consistently becomes “friendlier”.



This month, we’ll be treated to a visit from John Dilks, K2TQN, who writes the Vintage Radio column for QST. John is a seemingly inexhaustible authority on radio history, as well as having insights on technologies of the day and the personalities behind them. John’s presentation on “Radio Pioneers” is sure to entertain and inform, so be sure to attend.

Also this month, I’m encouraging each of you to “bring a buddy” along – a friend or coworker that may be a ham or just interested. Or maybe they’d just like to show up to see what WB3JOY is offering at the back counter. Come for the food, stay for the fun...

In May, I’ll be presenting the talk originally scheduled for January, on the enjoyment of AM communications. As the weather made everyone wait a bit longer, I’m even adding FM to the mix. So, if you’d like to learn more about popular voice modes on HF other than SSB, this will be your chance. I promise a few surprises, along the way.

GCARC as Guest Operators on Board Battleship New Jersey

By Jim Wright, N2GXJ



GCARC club members are being given the opportunity to be guest radio operators on the Battleship New Jersey. The date is Sunday April 27. We’ll be escorted onto the ship from the gate on the dock at high noon. The operating positions are deep within the ship’s former crypto room. Space is limited, so be sure to reserve your spot by signing up at the April club meeting.

For more information about the Battleship New Jersey Amateur Radio Station, please see www.nj2bb.org.

A copy of a TV news article featuring the ship and Ham radio during the museum ships on the air weekend can be found here: http://www.youtube.com/watch?v=afP7NpC_OQg



Slow Down to Speed Up

By Cory Sickles, WA3UVV

In my misspent teenage youth, I had a real “need for speed” when driving. I embraced muscle cars from the start and invested thousands – improving speed, handling, braking and more. It was not uncommon for me to fly down the bypass around my hometown at 100+ MPH on any given morning. Often, it was 140 or 160. (My first charge account was at a tire store in town...)

One interesting phenomenon was that when I slowed back down to 60, it seemed so incredibly slow. That’s still 88 feet per second, but it sure didn’t seem that way. It was a good example of how our brains work. When you are driving at high speeds, you have to stretch your view much further ahead, since you are covering ground at a much faster rate. If you don’t constantly analyze what’s going on downrange, then you might end up covering the ground in a much different way.

(<http://www.youtube.com/watch?v=VKOenqbOk>)

This same stretching exercise can be used when you are trying to increase your CW speed. Go to the ARRL web site (<http://www.arrl.org/code-practice-files>) and start listening to the 40 WPM session. I know, that’s way faster than you can copy, but just close your eyes or sit still and drink some coffee while listening. Before you know it, you’ll pick out a few characters here and there. Far from solid copy mind you, but “even a blind squirrel finds a few nuts, once in awhile.”

Then listen to the 35 WPM session. Chances are, you’ll find yourself pulling out some more characters in what initially might seem more like a stream of RTTY, than CW. Repeat at 25, 20 and so on, stopping at the speed that’s just above your comfort level.

Notice how slow and uncharacteristically comfortable that feels? Notice how deceptively easy it seems to be to copy the characters and pick out entire words? Don’t bother writing anything down, this is exclusively an “in your head” exercise.

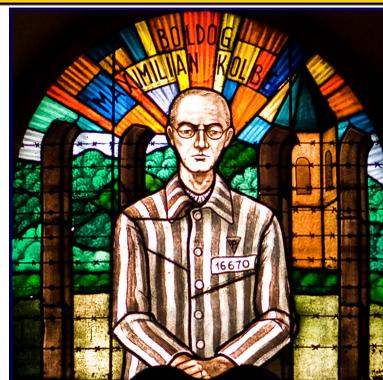
Over the course of weeks, try this each day. Plus, commit to at least one QSO every day – no matter what. In less time than you might imagine, you’ll pull your brain up to a higher speed. As you get faster, with solid copy, stop descending in speed at the next higher one. Continue until you get to the speed you want.

Keep working other stations on a consistent basis and you’ll keep in practice, plus have some more fun on the air!

ARRL 2013 Field Day Results for the Gloucester County Amateur Radio Club

	2013	Rank		Total #
Score	11,368	#27	out of	2,547
Category	11A	#1	out of	2
QSOs	2,937			
Power Mult	2	#21	out of	2,149
Section	SNJ	#2	out of	21
Division	AT	#4	out of	252
Participants	35			

Maximilian Kolbe, SP3RN Patron Saint of Amateur Radio Operators



Test Your Knowledge

By Jim Wright, N2GXJ

Getting that first Technician class license enables a myriad of ham radio activities. Getting your General class license really opens up the world of HF radio. As you know, to get to enjoy those General class privileges, you have to pass the General class test. Did you know that your club supports license testing regularly right here in Gloucester County on the second Thursday of each month? If you're not already a General, what's holding you back? The General Class exam pulls from a pool of pre-defined questions, all which are available for your review from the "Get Your Ham Ticket" tab on the left side of our Club's website.

Towards your goal of getting that next license class, and as a refresher for those who already have it, here's a couple of questions from the pool related to the "magic" of HF.

G3B05: What usually happens to radio waves with frequencies below the Maximum Usable Frequency (MUF) and above the Lowest Usable Frequency (LUF) when they are sent into the ionosphere?

- A. They are bent back to the Earth
- B. They pass through the ionosphere
- C. They are amplified by interaction with the ionosphere
- D. They are bent and trapped in the ionosphere to circle the Earth

G3B12 : What factors affect the Maximum Usable Frequency (MUF)?

- A. Path distance and location
- B. Time of day and season
- C. Solar radiation and ionospheric disturbances
- D. All of these choices are correct

G3B10 : What is the approximate maximum distance along the Earth's surface that is normally covered in one hop using the E region?

- A. 180 miles
- B. 1,200 miles
- C. 2,500 miles
- D. 12,000 miles

G3B09 : What is the approximate maximum distance along the Earth's surface that is normally covered in one hop using the F2 region?

- A. 180 miles
- B. 1,200 miles
- C. 2,500 miles
- D. 12,000 miles

G3C05 : Why is long distance communication on the 40, 60, 80 and 160 meter bands more difficult during the day?

- A. The F layer absorbs signals at these frequencies during daylight hours
- B. The F layer is unstable during daylight hours
- C. The D layer absorbs signals at these frequencies during daylight hours
- D. The E layer is unstable during daylight hours

(Continued on page 7)

(Continued from page 6)

G3C11 : Which of the following antenna types will be most effective for skip communications on 40 meters during the day?

- A. Vertical antennas
- B. Horizontal dipoles placed between 1/8 and 1/4 wavelength above the ground
- C. Left-hand circularly polarized antennas
- D. Right-hand circularly polarized antenna

The answer to question **G3C11** is (B, dipole). Surprised? Maybe it helps to know the answer to question **G3C05** is (C, absorbs). Answers for each of the other questions are available for you in the question pools accessible from our club's web site.

Yes Virginia, There is a Resistance

By Cory Sickles, WA3UVV

Recently, a painting by Jeff Bass made its way around the Straight Key Century Club's Facebook page. Looking into it a bit further, I found it was a tribute to a fascinating woman – Virginia Hall.

Virginia lead an exciting and dangerous life in service for the Allies during World War II. She was so effective as a spy, that the Gestapo expended special effort in an attempt to capture her. Thankfully, she eluded them and continued to provide valuable information to British Intelligence.

More about her fascinating life can be found at <http://www.nbcnews.com/id/16157305>

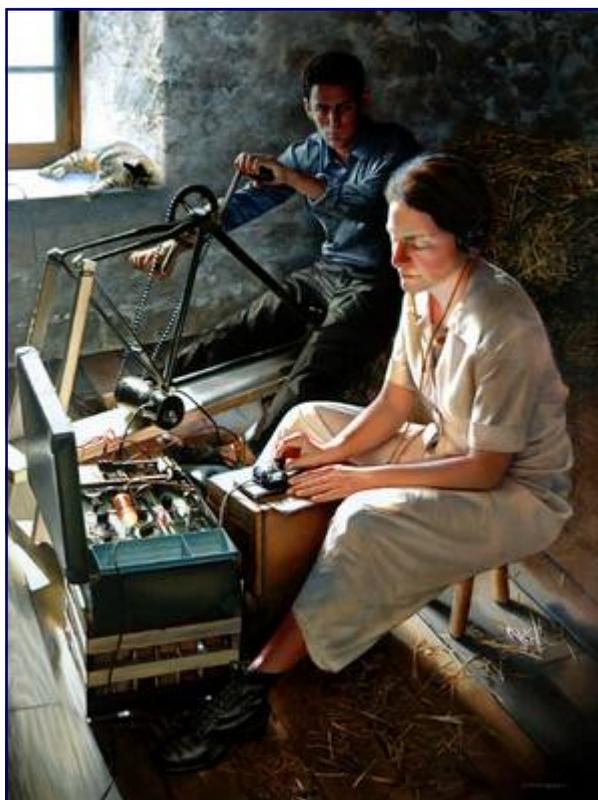


Image credits : www.jeffbass.com



April 18, 2014 - World Amateur Radio Day

The International Amateur Radio Union (www.iau.org) Administrative Council has designated “Amateur Radio: Your Gateway to Wireless Communication” as the theme for World Amateur Radio Day 2014. World Amateur Radio Day is celebrated each year on April 18 to recognize the anniversary of the founding of the IARU in Paris in 1925. ARRL Co-Founder Hiram Percy Maxim, 1AW, was its first president. The primary purpose of World Amateur Radio Day is to focus a public spotlight on Amateur Radio and its benefits to countries and communities. This year the IARU and its more than 150 member-societies will celebrate the organization's 89th anniversary.

Radio with Pictures

By Cory Sickles, WA3UVV



One of the more interesting accessories offered for Yaesu's System Fusion transceivers is the MH-85A11U Camera Microphone. Not since Kenwood sold the VC-H1 Visual Communicator, have we seen this dimension added to the mix.



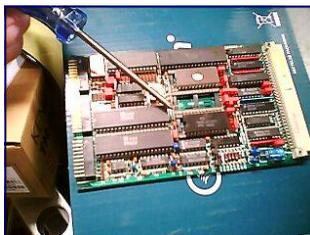
While the VC-H1 also had a display screen, Yaesu's product does not. Pictures can be viewed on the color display of the FTM-400DR mobile, but not the FT1DR portable. The portable can be used to take pictures, though.



Why would you want to do this? Well, uses for EMCOMM and community events easily comes to mind. Also, technical exchanges can be helped greatly with a picture or two. This is one of those things where you find additional uses, once you have one.

The resolution of the camera is selectable as either 160 x 120 or 320 x 240 pixels. That's not much when compared to even a low-end digital camera, but it's still better than no camera at all. Higher resolution images require more time to send and receive.

So, Yaesu designed it with that compromise in mind. If you need a picture to help describe something NOW, then it's better to have it in low-res, than have to wait minutes for it to show up – halting all other communications on a frequency at the same time. Take a look at the pictures and you might imagine some everyday or ARES/RACES/SKYWARN/CERT/CART/etc uses, from giving a wide shot of a crowd, details when describing a circuit modification, creek or lake flooding, identifying a lost pet or just the ever-popular “selfie”.



I think from the images shown here, you'll get some idea of how they look - better in daylight than under fluorescents, but so does everything else.



Pictures are stored on a micro-SD card in the radio. They can be transferred to a computer for sharing and storage. Also, it's possible to create pictures without the camera and send them as you might SSTV pictures or “instant” QSL's.

(Continued on page 9)

(Continued from page 8)

The MH-85A11U Speaker Microphone includes a camera *1. Snapshots may be taken and the image data can be transmitted *2.

Image Transfer Button
Press this button to transmit the latest picture taken.

PTT Switch
Press and hold to transmit.

Speaker
The internal speaker is located here.

Connector
Connect this plug to the transceiver. Carefully direct the plug into the transceiver connector. Do not forcibly damage the transceiver jack.

Lens
Direct this lens toward the subject to take a picture. Do not touch or cover the lens.

Shutter Button
Press this button to snap a picture.

Microphone Element
Speak in a normal voice about two inches away from the microphone.

Clip
Clip the MH-85A11U onto your belt.

※ 1 Please refer to the Yaesu products catalog for the correct microphone to use with your transceiver.

※ 2 The last picture taken is available to transmit. Refer to the transceiver Operating Manual for the transmission procedure of other pictures.

GCARC “Spring Forward” Fox Hunt Results

By Jim Wright, N2GXJ



Congratulations to Jeff Garth, KC2WCS, who teamed up with Dan Tremolini, N2TXG in this Spring’s GCARC Fox Hunt and was first to find the hidden transmitter. Using signal strength to home-in on the transmitter’s periodic signal, several teams actually narrowed their search down to the right park here in Gloucester County within the first half hour of driving during the event, but then it was anybody’s game from there, as they needed to get out of their cars to actually find where



in the park the transmitter was hidden (which turned out to be behind a soccer backstop, under a pile of leaves). If you’ve never tried a radio direction finding foxhunt before, it can be quite fun. We are considering an on foot (no driving) hunt as a training exercise in conjunction with our field day activities in June this year. Look for more information on this as we get closer to the event.





Field Day 2014 - 91 Years of Field Day

By Mark Townsend, W2OCY



The objective of field day is to simulate a situation where operators are tested in a non-permanent field deployment. Meanwhile, operators have an objective of contacting as many stations as possible. All amateur bands may be used, except 12, 17, 30 and 60 meters. This year field day is operated between 18:00 UTC (14:00 EST) Saturday, June 28 until 20:59 UTC (16:59 EST) Sunday, June 29. Field Day is a time for Tech's to experience the feeling of operating HF for the first time. All licensed operators are able to operate on the band of their choice.

The W2MMD operation is a class A station. The qualifications for class A operation are 3 or more operations running on 100% emergency power. Only one transmitter may be used per mode on each band. There will be a spread sheet available soon at club meetings to sign up as a band chairman. Any club member who knows someone interested in becoming a ham may invite them to field day for GOTA(Get On The Air) points. Children are especially encouraged to come operate as they also boost our score. Any band chairman must be able to supply an antenna, radio, power supply and all other required components of their station.

All participants must assume the W2MMD callsign while operating a field day station. It is highly recommended that all band chairmen have a computer capable of running logging software. This makes the scoring easier and more accurate.

If there are any questions, please contact Mark at [w2ocy <dot> snj <at> gmail <dot> com](mailto:w2ocy@snj.gmail.com).

THE GREATER BALTIMORE HAMBOREE AND COMPUTERFEST

Saturday, April 5, 2014 - 0830 hours to 1600 hours

Maryland State Fairgrounds

2200 York Road

Timonium, MD

www.gbhc.org



Testing, Testing - 001 010 011...

By Cory Sickles, WA3UVV

Back in October, I mentioned an opportunity for us to be a beta testing site for Yaesu's DR-1 System Fusion (SF) digital repeater, as a possible replacement for our 2 meter machine. After some "non-updates", plus patient (and not so patient) waiting, it's finally here!



If you aren't already familiar with the System Fusion product line, it's essentially Yaesu's methodology for handling digital voice and "low speed" (9.6 kilobaud) data. A look at their web site www.yaesu.com will provide links to download brochures and datasheets. SF isn't the same as D-STAR, DMR, NXDN, P-25 (or anything else for that matter), just as none of those are compatible with any of the others. What does give you compatibility is falling back to good old analog FM, which the DR-1 repeater and radios happily still support.

So, once the new repeater is installed, you'll still be able to use it just as you use the existing one, but it will also support digital communications. (Analog In = Analog Out / Digital In = Digital Out) If you are OK with listening to digital data streams on your radios, that's fine. If not, then enable "Tone Decode" or "Tone Squelch" and you won't have to listen to it. You'll see a "busy" indication (on any recent model unit) when there's a non-CTCSS signal on 147.18 MHz, but all should remain silent.



Your use of the repeater in either mode is encouraged. It will help us "beat it up" a bit - plus allow you to share your valuable thoughts on how it sounds and its overall performance. If you have a SF mobile (FTM-400DR) or portable (FT1DR), that's great, as we really want to give it a digital workout, in the months ahead.



I'll be advertising its existence in some Yahoo! groups and down at HRO, so you may get to hear some new voices and meet some new hams in the digital domain, along the way.

While some of us have been working each other - on 147.525 MHz simplex - my "best DX" is from Glassboro to Smyrna, DE. You're welcome to beat that unofficial record.

To familiarize you a bit better with the System Fusion line, there will be a brief demo session at the April 2nd meeting, prior to its installation - along with a portable and mobile. Also, a digital net/roundtable will be scheduled to encourage additional activity.

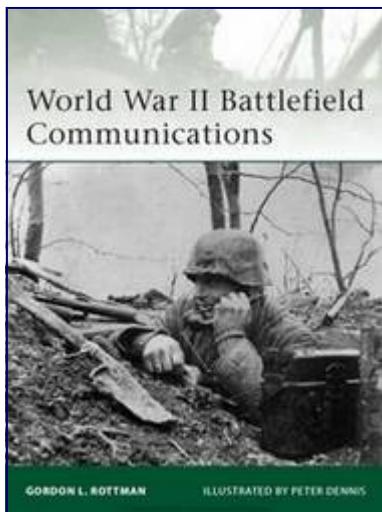
Although different than D-STAR, which more of you may be familiar with, the long-range plan is for SF repeaters to be linked in ways - a la reflectors - similar to D-STAR, DMR and NXDN. The different methodologies are opportunities to embrace new technologies and make new friends.



May 16 - 18, 2014

World War II Battlefield Communications

By Cory Sickles, WA3UVV



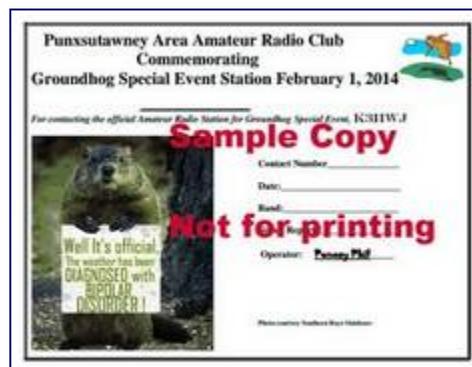
Perhaps in keeping with a historical theme this month, there's another book that may interest some of you – covering a brief history of “portable” military radio communications gear.

The good news is the book has been made available on the Infobahn at http://www.ebookee.org/World-War-II-Battlefield-Communications-Osprey-Elite-181-repost-_2478562.html

Punxsutawney Phil

By Jim Wright, N2GXJ

For those avid readers of Crosstalk, you may recall a mention of the special event station that was operating from **Punxsutawney, PA** back on February 1 of this year. Well, my certificate came in the mail today for contact #427 I'd had with them during the event. On it was a picture of the famous ground hog holding up a sign about the weather. Fun!



There are a number of special events like this that go on the air each year. Some that I am looking forward to here in 2014 are the **Museum Ships on the air weekend (June 7-8)**, the **Thirteen Original Colonies on the air special event (July 1-6)**, and **Historic Route 66 on the air (Sept 4-14)**. Many stations will apply for, and get special 1x1 callsigns assigned to them to operate just for the event. The guys and gals that operate these stations seem to have a lot of fun while doing this. Not only is it good fun, but it is good PR; promoting amateur radio and the special events they are honoring.

Would anyone be interested in operating a special event station this year? Perhaps with a special 1x1 call-sign (such as “N2J”), we could set up a booth at **Gloucester County’s own NJ Peach Festival**, later in July of this year? Just let Cory know, as part of our Community Outreach activities, if you are interested. If enough people say yes, we might go ahead and set this up.

Punxsutawney Area Amateur Radio Club K3HWJ - www.punxyclub.com

Museum Ships Weekend Event - www.nj2bb.org/museum/index.html

13 Colonies Special Event - www.13colonies.info

Route 66 On The Air Special Event 2014 - www.w6jbt.org



Gloucester County 4-H Fair and New Jersey Peach Festival
July 24 - 27, 2014
www.gc4hfair.com

W1AW 2014 Spring/Summer Operating Schedule

Daily Visitor Operating Hours:

1400 UTC to 1600 UTC - (10 AM to 12 PM ET)

1700 UTC to 1945 UTC - (1 PM to 3:45 PM ET)

(Station closed 1600 to 1700 UTC (12 PM to 1 PM ET))

Morning Schedule :

Time	Modes	Days
1300 UTC (9 AM ET)	CWs	Wednesday, Friday
1300 UTC (9 AM ET)	CWf	Tuesday, Thursday

Afternoon/Evening Schedule :

Time	Modes	Days
2000 UTC (4 PM ET)	CWf	Monday, Wednesday, Friday
2000 UTC (4 PM ET)	CWs	Tuesday, Thursday
2100 UTC (5 PM ET)	CWb	Daily
2200 UTC (6 PM ET)	Digital	Daily
2300 UTC (7 PM ET)	CWs	Monday, Wednesday, Friday
2300 UTC (7 PM ET)	CWf	Tuesday, Thursday
0000 UTC (8 PM ET)	CWb	Daily
0100 UTC (9 PM ET)	Digital	Daily
0145 UTC (9:45 PM ET)	Voice	Daily
0200 UTC (10 PM ET)	CWf	Monday, Wednesday, Friday
0200 UTC (10 PM ET)	CWs	Tuesday, Thursday
0300 UTC (11 PM ET)	CWb	Daily

Frequencies (MHz) :

CW :	1.8025	3.5815	7.0475	14.0475	18.0975	21.0675	28.0675	147.555
Digital :	-	3.5975	7.0950	14.0950	18.1025	21.0950	28.0950	147.555
Voice :	1.8550	3.9900	7.2900	14.2900	18.1600	21.3900	28.5900	147.555

(Continued on page 14)

(Continued from page 13)

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM
CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM
CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a revolving schedule.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2230 UTC (6:30 PM ET), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0000 UTC (8 PM ET) Thursdays and 0000 UTC (8 PM ET) Fridays.

Audio from W1AW's CW code practices, and CW/digital/phone bulletins is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The CW/digital/phone audio is sent in real-time and runs concurrently with W1AW's regular transmission schedule.

All users who connect to the conference server are muted. Please note that any questions or comments about this server should not be sent via the "Text" window in EchoLink. Please direct any questions or comments to [w1aw <at> arrl <dot> org](mailto:w1aw@arrl.org).

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Digital at 15 minutes past the hour, and CW on the half hour.

FCC licensed amateurs may operate the station from 1400 UTC to 1600 UTC (10 AM to 12 PM ET), and then from 1700 UTC to 1945 UTC (1 PM to 3:45 PM ET) Monday through Friday. Be sure to bring your current FCC amateur license or a photocopy.

The complete W1AW Operating Schedule may be found on page 42 in the January 2014 issue of QST or on the web at, <http://www.arrl.org/w1aw-operating-schedule>.

Want to Feel Old(er)?
By Cory Sickles, WA3UVV

Many of us have seen the video clip with a little girl – used to using an iPad – swipe her finger across the cover of a print magazine, trying to change the page. In exasperation, she finally holds the magazine out and says “It’s broke.”



Here’s another piece, showing some kids being exposed to a rotary phone for the first time.
<http://www.mentalfloss.com/article/55380/adorably-perplexed-kids-react-rotary-phones>

April Birthdays

Congratulations to these members celebrating birthdays this month

Ronald Block NR2B
Merrill Brown Jr WK2G
John Bunting KC2SGN
Irma Colabrese N2FNF
Milton Frantz K2MXF
Norman Glenn W2GAR
Kevin Hall KD2FFZ
Joseph Hogg N2ADP
Thomas Litle AB2YG
Jerry Marinacci KE2CK
Raymond Metzger AI2B
Michael Mollet N2SRO
Whitney Myers KB2ZTL
Keith Waltman W2ERP

Past Presidents:

Gurdon Cooper AA4N (W2PAX) (SK)
Robert Krukowski KR2U (WA2UDO)
Richard Netherby WB2OCR

Leonard Kravitz KD2CR (SK)
Edwin Stetser K2JJC (SK)



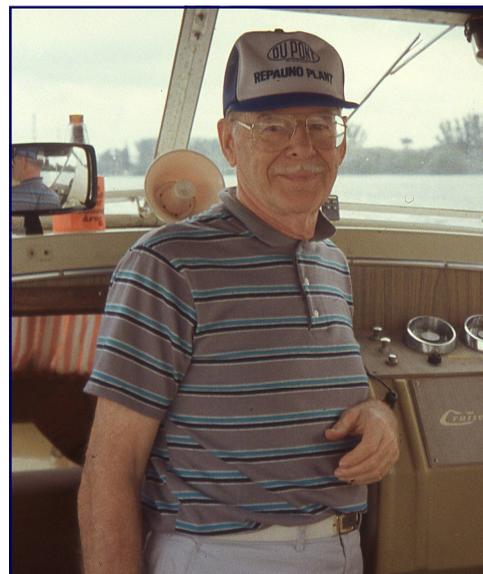
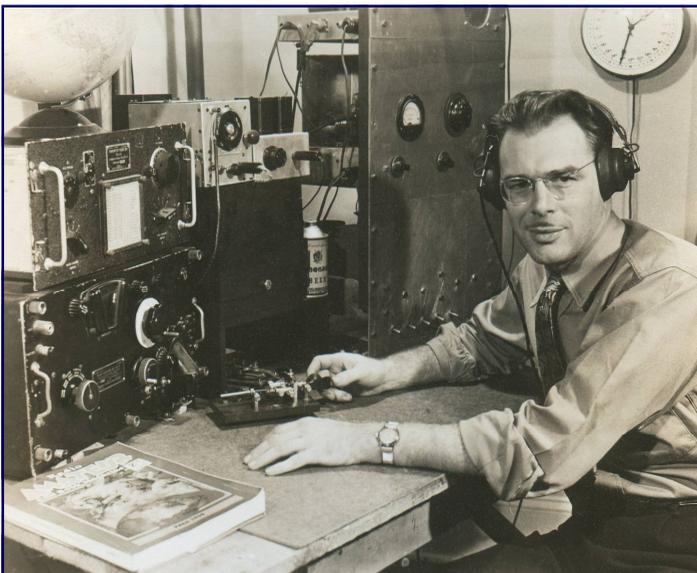
Gurdon E. Cooper AA4N (W2PAX)
April 12, 1920 - September 29, 2010

The following excerpt is from David Sheppard, W2PAX, grandson of Gurdon Cooper.

“I have many good memories of his association with amateur radio, such as the hamfest at the Mullica Hill 4H grounds, and tagging along with him while he worked the Cancer Society Bike-A-Thon between Philadelphia and Atlantic City. I was probably the only fourth grader in Gloucester County that knew where the Elm fire house was! He also had an eternal love of the GCARC.”

“Without a doubt, he was far more dedicated to the club there than he ever was here in Florida. In fact, he never got rid of his President’s name badge from the GCARC, and I still have it. His love of amateur radio has driven me to get licensed as well.”

“The black and white photo (below) is the only known photo of him with ham equipment. This was taken when he lived in the old farmhouse on Asbury Station Road at the railroad crossing. His “shack” was in the attic. The date of the photo is approximately 1951. The other was taken while we were on a fishing trip in Florida around 1988.”



“Blast From The Past” - Our very first newsletter

GLOUCESTER COUNTY AMATEUR RADIO CLUB April 1959

VOL 1 NR 1

Well, gang, it looks like we got off to a pretty good start with the first two meetings of the Gloucester County Radio Club with 52 present for the first meeting and 48 for the second one. It should be noted that we had quite a few present from the Southern part of the county. Our hats off to these fellows for the good showing at the meetings! Our next meeting will be held on Wednesday, April 1st, at the Owens-Illinois Club House in Glassboro. The Meeting will convene sharply at 8:00 P.M. Let's have a big turnout!

NEW-OFFICERS

President	Van Turner	W2KE
Vice President	Woody Frantz	K2AQL
Secretary	Ed Stetser	K2JJC
Treasurer	Horrace Simpson	W2JOZ

Field Day

As most of us realize, the last weekend of June is reserved for Ham Radio. On this weekend the ARRL Field Day Contest is in full swing. This would be an excellent opportunity for us, as a new club, to make a good showing and to show other clubs in the area that we are in existence. This, of course, will take cooperation from each and every one in the club. See George Stuart, K2SOL. It also must be noted that George is in Sewell, not Sewer!!!

White Elephant Sale

Why not accomplish 2 jobs in one? Clean out that junk box that the XYL has been hounding you to do and help out the club at the same time. Anything accepted. Bring it wrapped up and then try to buy it back HI!! That's at our next meeting. We also need an auctioneer. We think Albert Roche, K2HHJ, would make a good one.

WANTED - Ideas, articles, and name for the Club Newspaper. See Jack Layton, K2JKA or Albert Roche, K2HHJ.

Our thanks to Charles Sketchley, K2PQD, for providing the necessary equipment, etc., needed to make this publication possible.

**CU at the meeting
73's
Jack Layton, K2JKA**

New Jersey Emergency Preparedness Conference - May 5 - 9, 2014
Tropicana Hotel and Casino, Atlantic City, NJ
www.njepa.org



Greater Delaware Valley WalkMS Upcoming Events

The following Walks are happening in South Jersey on May 4, 2014:

Washington Lake Park, 626 Hurffville-Crosskeys Road, Sewell, NJ

Medford Lakes, 79 Tecumseh Trail, Medford Lakes, NJ

Ocean City Boardwalk, 501 Atlantic Avenue, Ocean City, NJ

Go to http://walkpae.nationalmssociety.org/site/PageServer/?pagename=WLK_PAE_EventDetails for more information.

MS-150 Update

The MS-150 weekend cycling event is scheduled for September 27th and 28th. While that certainly seems like a long time off, the year will move all too quickly. Also, it helps the MS Society's sanity factor if they have people volunteer early. There are many positions available on the route for Saturday, Sunday or both.

So whether you've participated in using ham radio to help ensure rider safety and support in the past, or you're looking to assist for the first time, please contact them and ask for additional information by sending an email to [N3MSS <at> mail <dot> com](mailto:N3MSS@comcast.net).

Crosstalk Submissions

This is your Club newsletter. Make use of it.

Feel free to contribute general interest articles and ideas for articles.

All submissions, queries, comments and editorials should be addressed to Jeffrey Garth, KC2WCS at jeff.garth@comcast.net.

Submission deadline for the May issue: Tuesday, April 22, 2014

Club Website <http://www.w2mmd.org>

Club E-Mail Reflector: gcarc@mailman.qth.net

Contest Calendar

For more information on the contests, please go to the WA7BNM Contest Calendar website:

<http://www.hornucopia.com/contestcal/>

April 2014

+ QRP Fox Hunt	0100Z-0230Z, Apr 2
+ CWops Mini-CWT Test	1300Z-1400Z, Apr 2 and 1900Z-2000Z, Apr 2 and 0300Z-0400Z, Apr 3
+ SARL 80m QSO Party	1700Z-2000Z, Apr 3
+ NRAU 10m Activity Contest	1800Z-1900Z, Apr 3 (CW) and 1900Z-2000Z, Apr 3 (SSB) and 2000Z-2100Z, Apr 3 (FM) and 2100Z-2200Z, Apr 3 (Dig)
+ QRP Fox Hunt	0100Z-0230Z, Apr 4
+ 15-Meter SSTV Dash Contest	0000Z, Apr 5 to 2359Z, Apr 6
+ LZ Open 40m Sprint Contest	0400Z-0800Z, Apr 5
+ PODXS 070 Club PSK 31 Flavors Contest	1200-1800 local, Apr 5
+ QRP ARCI Spring QSO Party	1200Z, Apr 5 to 2359Z, Apr 6
+ Texas State Parks on the Air	1400Z, Apr 5 to 0159Z, Apr 6
+ Missouri QSO Party	1400Z, Apr 5 to 0200Z, Apr 6 and 1400Z-2000Z, Apr 6
+ Mississippi QSO Party	1400Z, Apr 5 to 0200Z, Apr 6
+ SP DX Contest	1500Z, Apr 5 to 1500Z, Apr 6
+ EA RTTY Contest	1600Z, Apr 5 to 1600Z, Apr 6
+ RSGB RoPoCo SSB	1900Z-2030Z, Apr 6
+ 144 MHz Spring Sprint	1900 local - 2300 local, Apr 7
+ RSGB 80m Club Championship, CW	1900Z-2030Z, Apr 7
+ ARS Spartan Sprint	0100Z-0300Z, Apr 8
+ NAQCC Straight Key/Bug Sprint	0030Z-0230Z, Apr 9
+ CWops Mini-CWT Test	1300Z-1400Z, Apr 9 and 1900Z-2000Z, Apr 9 and 0300Z-0400Z, Apr 10
+ NCCC Sprint Ladder	0230Z-0300Z, Apr 11
+ JIDX CW Contest	0700Z, Apr 12 to 1300Z, Apr 13
+ OK/OM DX Contest, SSB	1200Z, Apr 12 to 1200Z, Apr 13
+ New Mexico QSO Party	1400Z, Apr 12 to 0200Z, Apr 13
+ EU Spring Sprint, CW	1600Z-1959Z, Apr 12
+ Georgia QSO Party	1800Z, Apr 12 to 2359Z, Apr 13
+ Hungarian Straight Key Contest	1500Z-1700Z, Apr 13
+ 222 MHz Spring Sprint	1900 local - 2300 local, Apr 15
+ CWops Mini-CWT Test	1300Z-1400Z, Apr 16 and 1900Z-2000Z, Apr 16 and 0300Z-0400Z, Apr 17
+ RSGB 80m Club Championship, SSB	1900Z-2030Z, Apr 16
+ ARLHS Annual Spring Lites QSO Party	0001Z, Apr 17 to 2359Z, Apr 22
+ NCCC Sprint Ladder	0230Z-0300Z, Apr 18
+ Holyland DX Contest	2100Z, Apr 18 to 2100Z, Apr 19
+ TARA Skirmish Digital Prefix Contest	0000Z-2359Z, Apr 19
+ ES Open HF Championship	0500Z-0859Z, Apr 19
+ CQ Manchester Mineira DX Contest	1200Z, Apr 19 to 2359Z, Apr 20
+ EU Spring Sprint, SSB	1600Z-1959Z, Apr 19
+ Michigan QSO Party	1600Z, Apr 19 to 0400Z, Apr 20
+ Ontario QSO Party	1800Z, Apr 19 to 1800Z, Apr 20
+ YU DX Contest	2100Z, Apr 19 to 1700Z, Apr 20
+ Low Power Spring Sprint	1400Z-2000Z, Apr 21
+ CWops Mini-CWT Test	1300Z-1400Z, Apr 23 and 1900Z-2000Z, Apr 23 and 0300Z-0400Z, Apr 24
+ 432 MHz Spring Sprint	1900 local - 2300 local, Apr 23
+ RSGB 80m Club Championship, Data	1900Z-2030Z, Apr 24
+ NCCC Sprint Ladder	0230Z-0300Z, Apr 25
+ 10-10 Int. Spring Contest, Digital	0001Z, Apr 26 to 2359Z, Apr 27
+ SP DX RTTY Contest	1200Z, Apr 26 to 1200Z, Apr 27
+ Helvetia Contest	1300Z, Apr 26 to 1259Z, Apr 27
+ QRP to the Field	1500Z, Apr 26 to 0300Z, Apr 27
+ Florida QSO Party	1600Z, Apr 26 to 2159Z, Apr 27
+ BARTG Sprint 75	1700Z-2100Z, Apr 27

2014 Club Officers - 1 year term

President :	Jim Wright, N2GXJ
Vice President :	Cory Sickles, WA3UVV
Treasurer :	Al Arrison, KB2AYU
Recording Secretary :	Sheldon Parker, K2MEN
Corresponding Secretary :	Bart Conrad, KC2WVP

Board of Directors - 3 year term

Chuck Colabrese, WA2TML	<i>(2012-2014)</i>
Dave MacDonald, WB3JOY	<i>(2012-2014)</i>
Jeffrey Garth, KC2WCS	<i>(2013-2015)</i>
Mark Townsend, W2OCY	<i>(2013-2015)</i>
Dan Tremolini, N2TXG	<i>(2014-2016)</i>
John Zaruba Jr, K2ZA	<i>(2014-2016)</i>

Trustees - 4 year term

Ray Schnapp, WB2NBJ	<i>(2011-2014)</i>
Martin Wilt, W2ILT	<i>(2012-2015)</i>
Ray Martin, W2RM	<i>(2014-2016)</i>
Brian Jones, KD2BXD	<i>(2014-2017)</i>

Committee Chairs

Awards and Contests	Kenny Denson, WB2P
Budget	Al Arrison, KB2AYU
Clubhouse Replacement Project	Ray Martin, W2RM
Clubhouse Site	Al Arrison, KB2AYU
Club License Trustee	Darrell Neron, AB2E
Club Publications	Jeffrey Garth, KC2WCS
Community Outreach	Cory Sickles, WA3UVV
- Scout Liaison	Frank Simila, KC2SJ
Constitution and By-Laws	Ron Block, NR2B
Database	Ken Newman, N2CQ
DX	Bill Grim, W0MHK
Emergency and Public Service	Joe Shevlin, KC2PHM
- ARES/RACES	Joe Shevlin, KC2PHM
- CERT	Martin Wilt, W2ILT
Field Day Co-Chairs	Mark Townsend, W2OCY and Kyle Townsend, W2KBT
Hamfest	Tom Gorman, KE2ES
- Hamfest Contact	Cory Sickles, WA3UVV
Health and Welfare	Ray Martin, W2RM
Historian	Jeffrey Garth, KC2WCS
Hospitality	Dave MacDonald, WB3JOY
Membership	Cory Sickles, WA3UVV and Ray Schnapp, WB2NBJ
Nominations	Jim Wright, N2GXJ
Programs	Cory Sickles, WA3UVV
Publicity	Cory Sickles, WA3UVV
Repeaters	Al Arrison, KB2AYU
Special Services	Darrell Neron, AB2E
Technical and TVI	Cory Sickles, WA3UVV
VEC Liaison and License Testing	Gary Reed, N2QEE



The W2MMD Repeaters

Output: 147.180 MHz
Input: 147.780 MHz
Offset: +600 KHz
PL Tone: 131.8 Hz

Output: 442.100 MHz
Input: 447.100 MHz
Offset: +5.0 MHz
PL Tone: 167.9 Hz

Output: 1284.400 MHz
Input: 1272.400 MHz
Offset: -12.0 MHz
PL Tone: None

The above 3 repeaters are all
located in Pitman, NJ
GPS: 39.728481°, -75.131088°

Output: 224.660 MHz
Input: 223.060 MHz
Offset: -1.6 MHz
PL Tone: 131.8
Location: Sewell, NJ
GPS: 39.781382°, -75.099963°

GCARC 2M Ragchew Net

Thursday, April 17, 2014
20:00 Hrs
147.180+ MHz (PL131.8Hz)

ARES/RACES Net

Sunday 20:00 Hrs
147.180 and 224.660 repeaters

VE License Session

Thursday, April 10, 2014 @ 1900 Hrs
Franklin Township Public Library
Franklinville, NJ
Gary Reed, N2QEE
[glreed49 <at> verizon <dot> net](mailto:glreed49@verizon.net)

GCARC Meetings

General Membership

19:30 Hrs, Wednesday, April 2, 2014
Pfeiffer Community Center
Williamstown, NJ

Board of Directors

19:00 Hrs, Wednesday, April 16, 2014
GCARC Clubhouse
Harrison Twp. 4-H Fairgrounds
1 mile south of Mullica Hill on RT77

Club Meeting Program

Wednesday, April 2, 2014

John Dilks, K2TQN
Vintage Radio

**Club dues
deadline has been
extended to
April 2, 2014**

**GCARC 11:00 am Brunch
Every Friday @
The Seven Star Diner
1890 Hurffville Road, Sewell, NJ**