



# CrossTalk

Issue 57:02    57 Years Of Service To Our Community    February 2016

## 2016 Club Officers

<b>President :</b>	<b>Jim Wright, N2GXJ</b>	<b>Trustees - 4 year term</b>	
<b>Vice President :</b>	<b>Cory Sickles, WA3UVV</b>	<b>Ray Martin, W2RM</b>	<i>(2014-2016)</i>
<b>Treasurer :</b>	<b>Al Arrison, KB2AYU</b>	<b>Brian Jones, KD2BXD</b>	<i>(2014-2017)</i>
<b>Recording Secretary :</b>	<b>Bob Fields, KC6AOH</b>	<b>Bob Demola, KD2GFL</b>	<i>(2015-2018)</i>
<b>Corresponding Secretary :</b>	<b>Ron Block, NR2B</b>	<b>Mark Gottlieb, WA2DIY</b>	<i>(2016-2019)</i>

### Board of Directors - 3 year term

<b>Dan Tremolini, N2TXG</b>	<i>(2014-2016)</i>	<b>Bill Price, NJ2S</b>	<i>(2015-2017)</i>
<b>John Zaruba Jr, K2ZA</b>	<i>(2014-2016)</i>	<b>Jeffrey Garth, KC2WCS</b>	<i>(2016-2018)</i>
<b>Chuck Colabrese, WA2TML</b>	<i>(2015-2017)</i>	<b>Chuck Lanard, KD2EIB</b>	<i>(2016-2018)</i>

### *This Month's Calendar...*

#### **General Membership Meeting**

Wednesday, February 3, 2016 @ 1930 Hours  
Pfeiffer Community Center

#### **Tech Saturday Forum**

Saturday, February 6, 2016 @ 0900 Hours  
GCARC Clubhouse

#### **VE License Testing Session**

Thursday, February 11, 2016 @ 1900 Hours  
Franklin Township Public Library  
Gary Reed, N2QEE  
[glreed49 <at> verizon <dot> net](mailto:glreed49@verizon.net)

#### **Board of Directors Meeting**

Wednesday, February 17, 2016 @ 1900 Hours  
GCARC Clubhouse

#### **GCARC 2M Ragchew Net**

Thursday, February 18, 2016 @ 2000 Hours  
147.180 MHz Repeater

#### **GCARC 11:00 AM Brunch**

Every Friday @ The Seven Star Diner  
1890 Hurffville Road, Sewell, NJ

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***Dues Are Due!!!***

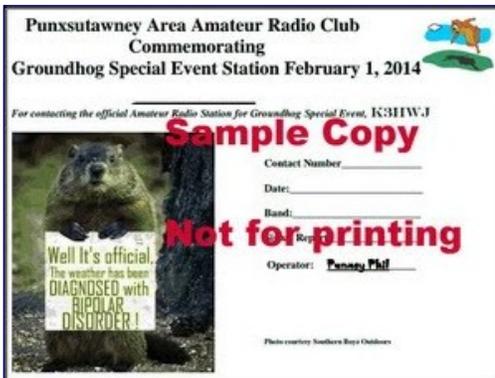


# President's Message



Palmyra and Jarvis, Willis and Futuna, Bevis and Butthead – I threw that last pair in there just for fun, but they were all the same for me; never heard, never contacted. What about South Sandwich (VP8STI) and South Georgia (VP8SGI), described as “a cold and inhospitable place” and “one of the most remote places on Earth”, respectively? There’s a web page dedicated just to the progress of this DXpedition, with some pictures, if you are interested: [www.intrepid-dx.com/vp8/](http://www.intrepid-dx.com/vp8/). Any of you have better luck than me with any DX entities?

If the HF DX isn't working to your favor, there's still lots going on you might want to take advantage of, both on HF, and on VHF. We have an extra day to play on the radio this month, let's use it!



For example, if you can get on 40M 7240 +/- and 20M 14330 +/- on Saturday, January 30, 2016, from 0900 to 1600, the \*Punxsutawney Area Radio Club K3HW [www.punxclub.com](http://www.punxclub.com) intends to be on the air with a special event celebrating Ground Hog Day! Be sure to write down your contact number if you want a certificate.

This is also the weekend of the ARRL's 6 Meters and up VHF contest. Amateurs of all license classes are encouraged to give this a try. How many contacts in how many grid squares can you contact from our FM29 location? This is a chance to see how far your 2

Meter rig really can reach, without coupling through satellites or the internet. Check for emails, as some members may be operating from our clubhouse during this weekend, if you wanted to get in on the fun and join them from there.

If HF is more to your liking, there's lots of chances to work on your WAS awards through LoTW. What is WAS, and what is LoTW? Look for an upcoming club program on that! In short, February is a good month to try and build up your log to get confirmed contacts from every state in the United States. Yes, it can be done! Helping are several state QSO parties, the ARRL school club round-up (Feb 8-12), the [PODXS 070 Club's](#) PSK31 Valentine's Day Sprint (Feb 14), and the North American RTTY QSO party (Feb 27-28) all on-the-air here in February. And don't forget special event stations like [NN4SA](#)'s 45<sup>th</sup> anniversary of Apollo XIV on the moon (Feb 5-6), George Washington's Birthday (K4US Feb 13-14), and many more as listed at ([www.arrl.org/special\\_events/search/page:1/model:Event](http://www.arrl.org/special_events/search/page:1/model:Event)) that can add to the HF fun this month too!



While mentioning coupling through the internet, did you happen to catch Mark's (WA2DIY) presentation at the last club meeting?

Thank you Mark! Very cool stuff. Innovation like this fosters interest in radio communication experimentation and advancement of the radio art for communication.

*President's Message - Continued on page 3*

On the “club business” side, have you been following what your repeater committee has been up to lately? Way to go guys! Very impressive work! If missed it at our last club meeting, you can read about some of their progress later in this edition of Crosstalk. In addition to the repeater committee, other committees have also been busy already this year.

For example, the budget committee met to prepare this year’s budget, and took it to the board of directors for review. Next, they will be presenting our 2016 plan at the February meeting for your approval. The Hamfest committee has already been working to secure a date and location for this year’s event.



And the clubhouse committee has been busy with maintenance and improvements at the clubhouse site, including installing removable angle brackets to temporarily take the tension off the cables of the crank-up HF antenna, installation of electrical usage monitoring equipment, installation of approved propane heater, painting to finish interior wall, addition of wireless keyboard for logging in the HF room, and more.



Be sure to come out during the next Tech Saturday Forum on February 6, 2016 to see the improvements, and to see what else is left on the “punch list” that is up on the board you might be able to lend a hand with.



Nationally, there are radio changes you may have heard about as well. After serving 3 two year terms, ARRL President **Kay Craigie, N3KN** of Blacksburg, Virginia, is stepping aside, and the ARRL Board has elected **Rick Roderick, K5UR** from Little Rock, Arkansas to replace her. Some of the club’s long time members may remember N3KN from when she lived in our area. We applaud Ms. Craigie and thank her for her service.



I especially want to thank her for her efforts on behalf of the Amateur Radio Parity Act, which is presently being worked through Congress (HR 1301, S. 1685). When conventional communications systems go down, Amateur Radio is often the last line of defense. Extending the FCC’s rules relating to reasonable accommodation of Amateur Service communications to private land-use restrictions, such as deed covenants, conditions, and restrictions is just the right thing to do for America. Please lend this effort your support. More info on this is at [www.arrl.org/amateur-radio-parity-act](http://www.arrl.org/amateur-radio-parity-act).

In general, if you are interested in getting more involved with emergency communications, and emergency communications events, please check-in on Sunday night at 8pm on the club’s 147.180 MHz (PL 131.8 Hz) repeater. At the end of the net, ask the net control operator for more information. For example, club member and SNJ SEC Tony Otlowski, W2WCC, has forwarded me an email from WS2Q/AAA2R9, the Civil Affairs Officer for US Army MARS, region 2, indicating that there will be a simulated national crisis situation communication exercise on Feb 12 (COMEX 16-1), that we might have the opportunity to be involved with.

President's Message - Continued from page 3

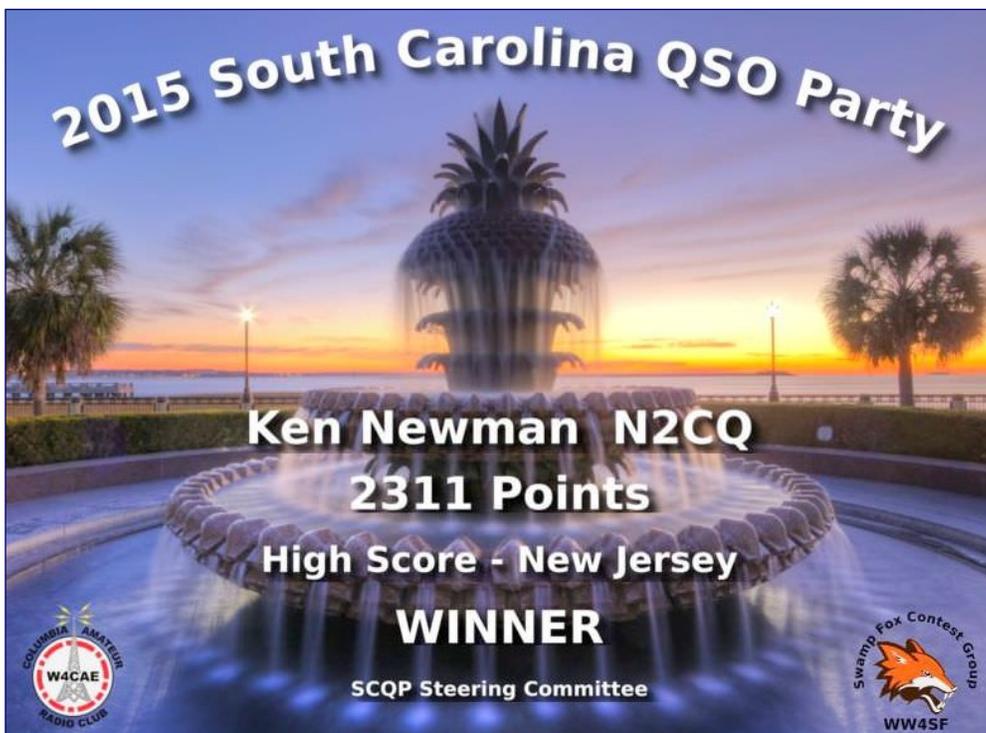
That's it for now. As always, please check our club website [www.w2mmd.org](http://www.w2mmd.org) and your member email for any late breaking radio-club related news updates. Hope to see you at the next club meeting on Wednesday, February 3, 2016!

Respectfully, Jim Wright, N2GXJ

*\*Editor's Note: For the past few years, the Punxsutawney Area Radio Club's Groundhog Special Event Station has also been using their 147.390 MHz repeater which is on the W3WAN Repeater System which in our area is on the 441.700 MHz repeater in Philly. So give that a try if you cannot get on HF.*



Electrical usage monitoring software





## Best Down Jersey DX Picks - February 2016

By Bill Grim, W0MHK

CALL	DATES	HIGHLIGHTS	DIFFICULTY (5=MOST RARE)	ENTITY
VP8SGI	02/01 - 02-09	#7 Most Wanted In The World!	5	South Georgia Island
FS	02/02 - 02/10	8 OPS/40-10M/CW, SSB, Digital	1	Saint Barts
7P8C	02/08 - 02/17	5 Stations/160-6M/CW, SSB, RTTY	3	Lesotho
V5	02/09 - 02/18	160-6M/CW, SSB, RTTY, Digital	2	Namibia
5V7TH	02/10 - 02/22	40-6M/CW, SSB, RTTY	3	Togo
VP8IDX	02/14 - 02/19	VP8SGI GANG!	3	Falkland Islands
PJ7AA	02/16 - 03/12	40-10M/CW, SSB	1	Saint Martin
A35T	02/18 - 02/24	160-10M/CW, SSB, RTTY	3	Tonga
3XY1T	02/14 - 03/04	160-6M/CW, SSB, RTTY	3	Guinea
KG4	02/19 - 03/04	HF/CW, SSB, RTTY, PSK	1	Guantanamo Bay

Credits : NG3K Announce DX Operations : [www.ng3k.com/Misc/adxo.html](http://www.ng3k.com/Misc/adxo.html)

### Welcome New Club Member:

**Ralph Sangataldo, W2HVH**, who has an Amateur Extra Class License and lives in Vineland, NJ.

We are glad to have you as a member of the Club and hope to see you regularly at Club events, activities, and meetings.





## Tech Saturday Forum : February 6, 2016

By John Zaruba Jr, K2ZA

0900 to 1200 Hours

### How to install coaxial cable connectors



The theme of this month's forum will be how to install coaxial cable connectors. Bring your coax cable and connectors and John will show you how to strip the coax and solder them.

The objective of the Tech Saturday Forum is to have an open discussion of subjects of Amateur Radio interest. All questions are welcome as well as a venue for members to show off their latest ham radio projects or gadgets. All are welcome - hams and non-hams - club members and non-club members. Take a guided tour of our clubhouse. View our HF and VHF/UHF Operation Facilities and our vast antenna farm.

The Tech Saturday Forum is held on the Saturday after the General Membership meeting. For more information, go to [www.w2mmd.org](http://www.w2mmd.org) on the Tech Saturday Forum page.



**ARRL Ham Radio License Exam Practice Website**

[www.arrlexamreview.appspot.com](http://www.arrlexamreview.appspot.com)

## Club Repeater Update

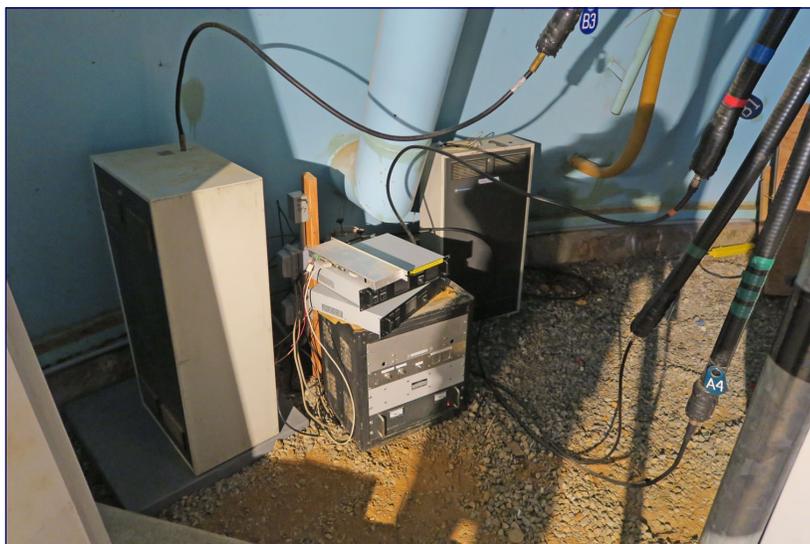
By Jim Wright, N2GXJ

Dear GCARC club members, as we talked about what would be soon happening during our last club meeting, I'm happy to announce the first phase of work has now been performed in the base of the Pitman tower site. On January 9, Tekk Comm, and members of your repeater committee, spent most of the day installing a new equipment rack on the new pad previously installed, placing the 440 and 2 meter machines in the rack, and most importantly, upgrading the filters and jumper cables to those filters. These machines are now powered from the new electric service that Bill (NJ2S) previously installed.

So how does it play, and what are the next steps? Initial field measurements on non-windy days show a measurable improvement in receiver ability to pick up and repeat weaker signals. As reported by several club members, in some instances, a simple HT was able to key up the repeater from locations where they could only marginally do so before. In a separate "before and after" comparison from ARES/RACES member Ed's (N2RO) Franklinville NJ QTH, analog signals that would break up and were near unintelligible when transmitted from the test location at 7.5 Watts, are now able to hold the repeater at that power level, and are intelligible (though scratchy) down to below 1.5 Watts of transmit from the same location. That is a measured improvement!

Please give our 2 Meter repeater a try from your QTH, starting at a higher power level and voicing your location and power level for the recordings that are still being made for all the over air transmissions. Then reduce your power levels, announcing the changes, on down to where your buddies say they can no longer copy your signal. That will help us for the next phase. Just to be clear, our work is not done, as this is being written prior to antenna replacement. Prior to antenna replacement, when it is windy, we continue to note fluctuations in output power received from the repeater's transmissions, and very distracting cracking in the transmitted audio.

As voted upon at a general membership meeting late last year, we authorized purchase of a replacement antenna, and the committee has moved forward to do just that. The old one has served the club well over these past few decades, but it's time to retire it. With some luck, the new antenna will be able to be installed in the next month or two, but is highly dependent on good weather and alignment with people's working schedules. We'll send an update email to the membership when that next step has been accomplished. A big GCARC thank you goes out to Tekk Comm, and Mr. Bendy (KC2YWJ) in particular, and to all the members of the repeater committee who have gotten us this far.



**Making room for the new.  
Old equipment is prepared to be moved  
to make room for the new rack.**

*Club Repeater Update - Continued on page 8*



**Repeater Committee members Mike (N2SRO) and Brett (KC2UXQ) preparing for the new install**



**Committee members John (K2ZA) and Chuck (KD2EIB) at the Pitman tower site**



**Repeater expert Jerry (KE2CK) helping to deliver the new equipment rack**



**2 Meter and 440 System Fusion analog/digital voice repeaters installed in new rack, on new pad, with new filters, new connectors, new cables, and new electric service. Lookin' Good!**



**Gary (KC2YWJ) from Tekk Comm working on the new install**



On-site received noise, iso-T desense, plus field tests from fixed and mobile locations were performed to compare “before and after” performance prior to antenna replacement.

The transmit antenna on top of Ed's camper used for field measurements.



The replacement antenna that has been received, but not yet installed. Un-assembled, it is still over 20 feet long!



**QST de W1AW**  
**ARRL Bulletin 38 ARLB038**  
**From ARRL Headquarters**  
**Newington CT December 29, 2015**  
**To all radio amateurs**

**SB QST ARL ARLB038 ARRL Again Complains to FCC about Illegal Marketing of Electronic Lighting Ballasts**

The ARRL has again complained to the FCC to allege illegal marketing of electronic RF lighting ballasts, operating under Part 18 of the Commission's rules, on the part of two major retailers. Letters went out this week to the FCC Enforcement Bureau and its Office of Engineering and Technology claiming Part 18 marketing regulations violations by Lowe's and by Wal-Mart stores. At issue is the sale of non-consumer RF lighting ballasts to consumers who, in several instances, were told by store personnel that it was okay to install these in a residential setting. In addition, non-consumer and residential-class ballasts are inter-mixed in store displays with inadequate signage to direct consumers to the correct choice. Both letters asked the FCC to investigate and commence enforcement proceedings with respect to the two stores' marketing and retail sale of RF lighting devices in the US.

"ARRL purports to show that the retailer is...marketing and selling to consumers (by retail sale) non-consumer Part 18 RF lighting devices which are not intended for residential deployment, to consumers who have specifically noted their intention to deploy the devices in residential applications," ARRL Chief Counsel Chris Imlay, W3KD, said in similar complaint letters to the Commission on December 28 and December 29. Part 18 emissions limits for consumer devices are far lower than those allowed for non-consumer devices.

"ARRL has received numerous complaints from Amateur Radio operators of significant noise in the medium (MF) and high frequency (HF) bands between 1.8 MHz and 30 MHz from 'grow lights' and other Part 15 and Part 18 RF lighting devices," Imlay continued. "These devices are easily capable of emitting RF noise sufficient to preclude Amateur Radio MF and HF communications (and, as well, AM broadcast station reception) throughout entire communities."

Supporting both complaints are extensive and detailed reports by ARRL Laboratory EMC Specialist Mike Gruber, W1MG. The reports recount incidents of actual purchases of Part 18 RF lighting devices intended for commercial use to consumers who made clear to store personnel that they intended to use the devices at home. Gruber's report includes multiple photographs that depict in-store displays of the products in question and showing signage that does not adequately explain which devices may be sold to whom.

The ARRL has asked that all non-consumer devices be removed from retail sale and marketing at the stores and to track and recall non-consumer devices already sold to consumers.

In his report, Gruber concluded that retailers should require purchasers of non-consumer Part 18 RF lighting devices to provide a valid contractor's number. He also advised that the stores improve display signage to make it clear that non-consumer Part 18 devices may not be used in residential settings.

Earlier this year, the ARRL sent similar complaint letters to the FCC regarding the marketing of Part 18 RF lighting devices by The Home Depot. The League also has complained about specific RF lighting "grow light" devices that it has alleged exceed Part 18 emission limits.

*Article Credit: The American Radio Relay League, [www.arrl.org](http://www.arrl.org)*

**QST de W1AW**  
**ARRL Bulletin 2 ARLB002**  
**From ARRL Headquarters**  
**Newington CT January 12, 2016**  
**To all radio amateurs**

SB QST ARL ARLB002 Amateur Radio Parity Act HR 1301 to Get House Subcommittee Airing

HR 1301, the US House version of the Amateur Radio Parity Act, will be among four communications-related measures set for a legislative hearing on January 12 before the House Subcommittee on Communications and Technology. Chairing the panel is US Rep Greg Walden, W7EQI, an Oregon Republican.

"This New Year we resolve to continue working to protect America's consumers and small businesses," Walden is quoted in a Subcommittee news release. "These bills collectively seek to protect folks from the inappropriate applications of law and misuse of 21st century technology."

Sponsored by US Rep Adam Kinzinger, an Illinois Republican, HR 1301 would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land-use restrictions, such as deed covenants, conditions, and restrictions. The bill has attracted 116 co-sponsors from both sides of the aisle.

While no one from the ARRL is scheduled to testify in support of the measure, ARRL Hudson Division Director Mike Lisenco, N2YBB, and ARRL General Counsel Chris Imlay, W3KD, are expected to be on hand for the session. The League directly contacted ARRL members in the districts represented on the subcommittee, asking them to contact their members of Congress and urge their support of the bill.

The US Senate version of the Amateur Radio Parity Act, S. 1685, cleared the Senate Committee on Commerce, Science, and Transportation last November. It has 3 co-sponsors.

There is more information about the bills on the ARRL Amateur Radio Parity Act web page, located at, <http://www.arrl.org/amateur-radio-parity-act>.

*Article Credit: The American Radio Relay League, [www.arrl.org](http://www.arrl.org)*



## Regional Hamfests and Events

**January 30, 2016 :** Punxsutawney Area Radio Club K3HWJ Groundhog Special Event Station, 40M 7240 +/- and 20M 14330 +/- from 0900 to 1600 Hours. [www.punxyclub.com](http://www.punxyclub.com) (Also see editor's note on page 4)

**February 12 - 14, 2016 :** Orlando HamCation® 2016, Center Florida Fairgrounds and Expo Park, 4603 West Colonial Drive, Orlando, FL. [www.hamcation.com](http://www.hamcation.com)

**February 19, 2016 :** New Providence Amateur Radio Club Auction and Indoor Flea Market, New Providence High School, 35 Pioneer Drive, New Providence, NJ. [www.nparc.org](http://www.nparc.org)

**February 28, 2016 :** Wireless Association of South Hills Amateur Radio Club WASHfest 2016 - The South Hills Hamfest, Castle Shannon VFD Memorial Hall, 3600 Library Road, Castle Shannon, PA [www.n3sh.org](http://www.n3sh.org)

**Richmond Frostfest - Saturday, February 6, 2016**  
**Richmond Raceway Complex (Richmond, Virginia)**  
The Frostfest website at [www.frostfest.com](http://www.frostfest.com) has all the details

This site is dedicated to the memory of Bill Hunsinger, KB2YJB-SK

**Gloucester City Amateur Radio Club**  
**NJ2GC**

Winner of the Gloucester City Silver Eagle Mike Award for Communications Excellence - 2012

**Dwell on the Beauty of the Journey through Amateur Radio rather than the Destination.....**

**Mid Winter Hamfest - Sunday, February 14, 2016**  
**Brooklawn Memorial American Legion Hall**  
**11 Railroad Lane, Brooklawn, NJ**

Gloucester City Amateur Radio Club will be hosting their *Mid Winter Hamfest* on Sunday, February 14, 2016 at the Brooklawn Memorial American Legion Hall in Brooklawn, NJ 08030. Doors open to vendors and sellers @ 0600 Hours, open to all @ 0700 Hours. Lots of space and tables. Nearly 10,000 square feet.

Talk in will be maintained on the NJ2GC repeater, 447.775 MHz, (- 146.2 Hz).

Entry donation : \$5.00. Vendor tables: \$8.00 (8 foot).

Further information can had from Jay Goheen, KB2ADL, [kb2adl <at> comcast <dot> net](mailto:kb2adl@comcast.net) or their web-site at: [www.nj2gc.org](http://www.nj2gc.org).

**GPS: 39.881434°, -75.120090°**

## The Battle of the Hams - Part 1

By Bill Leonard, W2SKE (SK)

*Thank you, John Dilks, K2TQN,  
for submitting this story*

*This article originally appeared in Sports Illustrated, 30 June 1958 and is reprinted here by permission of Sports Illustrated and Norma Leonard, through the assistance of Larry Serra, N6AZE.*

On the night of 07 February 1958, a few moments before 2 a.m., Canadian Army Sergeant Elvin Veale of the U.N. Emergency Force stepped out of his quarters into the bitter night air of the Gaza Strip. He was tense, excited, braced for the job ahead. At the same moment, in a Tokyo suburb, Haruo Yoneda, a Japanese TV executive, pushed back a final cup of breakfast tea and disappeared into the tiny room from which he emerged 48 hours later, glassy with exhaustion, and utterly happy.

Sergeant Veale, Mr. Yoneda, Ludwik Kloucek of the Mongolian People's Republic, Empty in Johannesburg, Eva and Alex in Casablanca, Nose in Hawaii, this reporter and a multitude of others, from Pitcairn Island to Punxsutawney, PA., were about to begin play in the oddest, toughest and by any standards the most international of all sporting competitions. This was the start of the 24th annual DX contest for radio amateurs of the world, sponsored by the American Radio Relay League.

DX means distance, in the abbreviated jargon of Hams, (Amateur Radio operators), and the object of a DX contest is for one station to talk to as many other stations in as many other places as possible in a prescribed length of time. The Grand National of the many DX contests sponsored annually by clubs, organizations and magazines in dozens of countries (including Russia) is the ARRL's affair. There are more American Hams (140,000) than in all the rest of the world combined (60,000), and in this biggest of electronic scrambles operators in the U.S. and Canada compete against each other and talk only to foreign stations. Overseas amateurs contact only Americans and Canadians.

*"...while golf is a game,  
bridge a hobby, and girls an  
avocation, Ham Radio is a  
passion."*

It takes about six months before logs, sent from the six continents, can be tabulated and checked. So this year's winners won't be officially known until the results are published in an early autumn issue of QST, the official magazine of Amateur Radio. But on the claimed scores, still to cross checking, George Morrow, W8BKP, of Washingtonville, Ohio, and Robert Cheek, W3LOE, of Catonsville, MD., may be the U.S. high scorers for voice and code respectively. Outside the U.S. Katashi Nose, KH6IJ, of Hawaii swept both the voice and code contests for the first time ever.

These, and the other winners in foreign countries and various sections of the United States and Canada, cart away no cash or golden wassail cups. Certificates (suitable for framing - but barely) are the only visible rewards of this tense and exhausting competition. The thrills are not in the prizes or the honors, but in a kind of fish-and-hunt excitement, with a voice 6,000 miles away in Rarotonga or Rio de Oro as the quarry.

Depending on just how serious he is on the subject, the DX contest man will not only kill himself in a contest, but he will spend the better part of a year getting ready for the exquisite torture of 48 hours of almost continuous operating. He will plan, assemble and erect, usually at considerable cost and occasional risk of limb, an endless succession of antennas, designed to make his station sound just a little louder in Minsk than the fellow who beat him out last year. He will memorize (if he doesn't know them all to begin with) the names and call-letter prefixes of every "country" in the world (there are nearly 300 "countries," for Hams count many islands and possessions as well as motherlands). He probably has written or talked previously on the air with a hundred Hams half a world away arranging crucial schedules for the contest pe

*(Continued on page 14)*

*(Continued from page 13)*

riod. He has experimented with diet and sleep habits, stay-awake pills and coffee strengths and has literally gone into training for the contest ordeal.

He does all these things and, in addition, takes a lot of perfectly sensible abuse from what are laughingly referred to as loved ones, because Ham radio in general, and a DX contest in particular, is more fun than beating Yale. It may indeed be true that while golf is a game, bridge a hobby, and girls an avocation, Ham radio is a passion. Like most passions, it is pretty much a mystery to those who are not in love.

Amateur Radio, like the airplane, is no longer a crude Kitty Hawk baby. Once it did take a garage full of fairly frightening equipment to say almost nothing to almost nobody almost no distance away. And it took an odd breed of nose-in-the-formula duck to master the intricacies of the spark gaps, tickler coils and reflex audions, to say nothing of the dots and dashes. Today, a transmitter-receiver combination no bigger than a portable typewriter is on the market, easily capable of regular communication with all parts of the world. It is about as difficult to operate as a home hair-rinse kit.

A great deal has been written about the work of Hams in national and local emergencies - floods, wrecks and hurricanes. Hams are proud of their public service record. Perhaps just as important, and frequently overlooked, is the fact that Hams are among the nation's best ambassadors abroad. An estimated 10,000 conversations between U.S. and foreign Hams take place every day. The Voice of America considers Ham radio of such vital international interest that one of its few programs in English, beamed to Europe and Asia, is a weekly Ham show.

There are Hams who are housewives (girls allowed) and bandleaders (Gene Krupa), politicians (Herbert Hoover, Jr.) and comedians (Arthur Godfrey), kings (Prince Abdullah Feisal of Saudi Arabia) and writers (Ernest "Sweet Smell of Success" Lehman), ship captains (Kurt Carlson of the ill-fated Flying Enterprise) and captains of industry (Hazard Reeves, president of Cinerama), guardians of the air (Air Force Vice-Chief of Staff, General Curtis LeMay) and of the seedy (New York Prison Warden Ed Dros). There are Hams who are doctors, lawyers, and a sprinkling of Indian chiefs, in India.

Of course, every American knows how radio works, just as he understands television, refrigerators, reciprocating engines, women's minds and other everyday miracles. But we shall risk a word about how Amateur Radio fits into the broadcasting scheme:

Radio energy can be pictured as waves, all traveling at the same speed, the speed of light (light, incidentally, is just very, very short radio waves, and our eyes a remarkable radio receiver that tunes in on light waves). Some radio waves are long, only a few of them passing a given point each second. Others are short waves, hardly any distance between crests, but many waves passing a given point each second. The wave lengths used for regular broadcasting are quite long (around a quarter mile from trough to trough). TV uses much, much shorter wave lengths, its channels falling in the so-called VHF (very high frequency) and UHF (ultra high frequency) range. Most of the bands assigned to Hams fall in the wave lengths in between, where almost all long-distance radio transmission takes place, not only amateur but military, plane to plane, ship to shore, commercial services, international broadcasting and overseas radio telephone. In the range between 10 and 100 Meters the radio waves exhibit the remarkable property of bouncing off a vast electrified layer of the upper atmosphere, called the ionosphere, and returning to earth thousands of miles away. It is a tricky business predicting just how and when which waves will bounce how far, for conditions change violently almost minute to minute, according to a dozen factors, including the season of the year, light, darkness and sunspot activity.

### *Part 2 in the March 2016 Crosstalk*

## Blast From The Past

*March 1993 Crosstalk*

### **A 400 HP Volkswagen!!!**

Meet **Herb Schuler, K2HPV**, (High Power Volkswagen).

First licensed in 1954 as KN2HPV, after about two years upgrading to General and becoming K2HPV. Several years later upgrading again to Advanced and finally in 1981 to Extra.

It was while living in Pennsgrove that Herb became acquainted with some local hams and got the bug. With only a touch of CW from the boy scouts, it took a few months to get his Novice ticket. Some ham friends gave him the phonetics "High Power Volkswagen". However it was not until a couple of years later he purchased the first in a line of VW's.

Herb is primarily a CW operator, in fact his HF rig doesn't even have a Mic. Also, almost all of his HF work is QRP. His equipment includes a IC-735 HF rig/auto antenna tuner. Diamond SX-200 SWR power meter, Bencher paddle with home brew C-MOS super keyer built in, packet TNC and IC-2SAT VHF HT. Dipoles are the main stay of the antenna farm covering his favorite bands 80, 40, and 30 Meters. For the past 20 years. Herb has been a county hunter ringing up 2,806 mixed, out of a possible 3,078 counties and 1,800 on CW. As a DX'er, Herb has 207 worked, 151 QRP. K2HPV, N2CQ, and WA2NPD are the club's main stay on 40 CW during Field Day. If you want to see how it is done come out and watch this group.

Herb retired from Bell Telephone 11 years ago, followed by a second retirement after 5 months as a real estate salesman. Aside from the fast pace of retirement, he and his wife spend time taking care of their aged parents. Once an avid amateur photo buff, besides ham radio, Herb spends time on his CO-CO color computer transferring sheet music into the computer.

Serving in 1977 as club president and as a director, K2HPV is always ready for a bike-a-thon or ARES drill. He has also put a lot of time on HF mobile with his IC-735; and as I hear it, a micro-switch strapped to his leg to send CW... in a VW, of course.

Herb relaxes on CW at 18 - 22 WPM. Interesting note: after having failed the 13 WPM CW test three times at the FCC office in Philadelphia, Herb went to a pseudo Hamfest given by Almo Radio one evening and passed with flying colors. He feels he studied at night and that his CW was best at night, so passing the test at night worked for him.

Herb Schuler, K2HPV, truly a "High Powered Radio Operator", proving high power is not always what comes out of the antenna.

by Charles 'Chic' Naylor, WA2USI

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### **February 1970 Crosstalk : More Great News Department!!**

W2FBF (**Ken Newman, N2CQ**) is now able to operate 20 Meter CW all night long, every night! He takes time off every hour or so to pace the floor walking his new baby daughter. Mother is doing well, also. (She sleeps while Ken walks). Many congratulations to Martha and Ken.

## DA's and DIT's

**Gary Reed, N2QEE**, reports that the January 14, 2016 VE session had three candidates, resulting in two new Technician Class operators and one upgrade to Amateur Extra.

**Keith Waltman, W2ERP** : He is doing well at Voorhees Rehab Center.

**Mike Weldon, KB2UMJ**, has a website with some DIY projects. The latest is a microphone adapter cable for Yaesu mobile radios. [www.qsl.net/kb2umj/mh48xlr](http://www.qsl.net/kb2umj/mh48xlr)

**Frank Messick Jr, W2FJM** : Congratulations to Frank for successfully passing his Amateur Extra Exam.

The club's **224.660 MHz repeater** is temporarily off the air. The Repeater Committee will investigate the problem and report back to the membership.

**Urb LeJeune, W1UL**, a well known South Jersey Ham and Educator is the creator of a unique ham radio test preparation website. He is presenting a demonstration of his website at the February 2, 2016 Old Barney Amateur Radio Club ([www.obarc.org](http://www.obarc.org)) meeting and at the Holiday City Amateur Radio Club ([www.hcsrc.us](http://www.hcsrc.us)) March 4, 2016 meeting. He calls his site a ham cram on steroids. The emphasis is totally on helping you acquire a license or upgrade your existing license quickly and easily. As part of the program you study and take a test of a sub-element to demonstrate the effectiveness of studying only the questions in the pool and making associations with the correct answer.

What is a ham cram? Historically a ham cram is a high intensity study session used for test preparation, typically a full day class preparing for the Technician class license.

What is different about the W1UL ham cram methodology? Essentially, the W1UL method is a ham cram on steroids. The W1UL system has six identifying characteristics:

1. The W1UL Ham Cram study session displays the actual pool questions and only the correct answers thus forming an association between the question and the correct answer.
2. A user can optionally choose "Expert Mode" where a propriety software program plus a panel of experts have selected only those questions for study which are most likely to appear on the actual test.
3. Technician, General and Extra class test preparations are currently supported.
4. Users select study and test sessions for each class of license preparation selecting one or more test sub-elements thereby creating small and manageable chunks of test pool information.
5. Since all study material is online you can study at your own pace.
6. Best of all, all the offered material is totally FREE.

The [www.ham-cram.com](http://www.ham-cram.com) website gives you all the tools you need to pass the various FCC tests with a minimum of effort and a higher level of confidence.

Candidates using the W1UL Ham Cram method score higher on the actual VE tests than those using any other test preparation website. Pass rates are greater than 95%.

**OK DX RTTY Contest  
December 19, 2015**

**Call:** N2CQ  
**Operator (s) :** N2CQ  
**Station:** N2CQ

**Class:** SOAB LP  
**QTH:** SNJ  
**Operating Time (hrs):** 4  
**Location:** USA

**Summary: Compare Scores**

Band	QSOs	Points	Countries	OK Stns
------	------	--------	-----------	---------

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**160:**

**80:**

**40:**

<b>20:</b>	<b>95</b>	<b>111</b>	<b>13</b>	<b>0</b>
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<b>15:</b>	<b>11</b>	<b>14</b>	<b>5</b>	<b>0</b>
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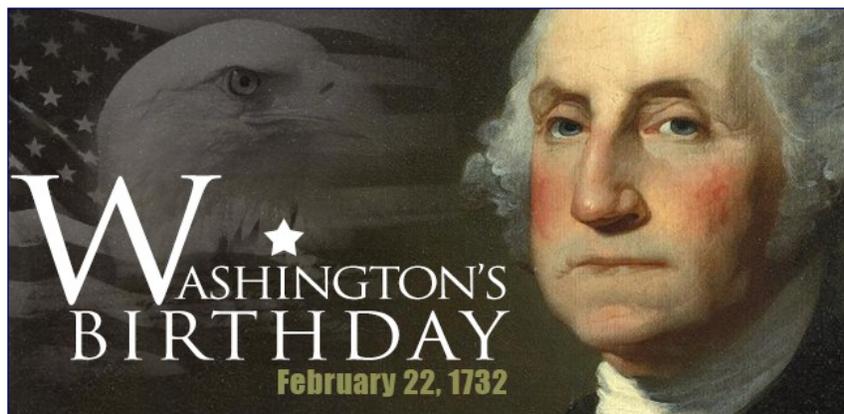
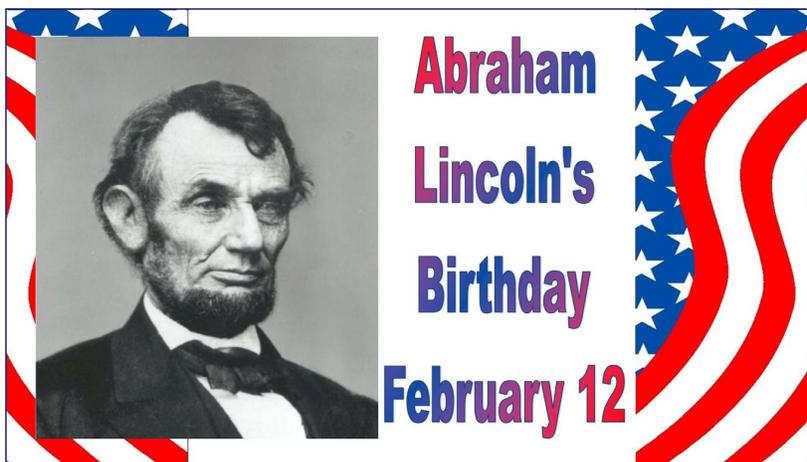
**10:**

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**Total: 106 125 18 0**

**Total Score: 2,250**

**Club: Frankford Radio Club**

**Comments:**



## Regional Yaesu System Fusion Repeaters

County, State	Location	Callsign/Club	Frequency	Off-Set	PL Tone
Atlantic County, NJ	Atlantic City	K2ACY	449.625 MHz	Minus	156.7 Hz
Atlantic County, NJ	West Atlantic City	<a href="#">W2HRW/SPARC</a>	443.250 MHz	Plus	146.2 Hz
Camden County, NJ	Blue Anchor	KB2AYS	445.125 MHz	Minus	91.5 Hz
Camden County, NJ	Cherry Hill	NJ2CH	145.370 MHz	Minus	91.5 Hz
Camden County, NJ	Cherry Hill	<a href="#">K3RJC/HARC</a>	444.900 MHz	Plus	131.8 Hz
Camden County, NJ	Gloucester City	<a href="#">NJ2GC</a>	447.775 MHz	Minus	146.2 Hz
Camden County, NJ	Runnemede	WA2WUN	147.225 MHz	Plus	192.8 Hz
Gloucester County, NJ	Pitman	<a href="#">W2MMD/GCARC</a>	147.180 MHz	Plus	131.8 Hz
Gloucester County, NJ	Pitman	<a href="#">W2MMD/GCARC</a>	442.100 MHz	Plus	131.8 Hz
Mercer County, NJ	Lawrenceville	<a href="#">W2MER</a>	147.105 MHz	Plus	123.0 Hz
Mercer County, NJ	West Trenton	<a href="#">W2ZQ/DVRA</a>	146.670 MHz	Minus	131.8 Hz
Mercer County, NJ	West Trenton	<a href="#">W2ZQ/DVRA</a>	442.650 MHz	Plus	131.8 Hz
Ocean County, NJ	Manchester	<a href="#">WA2RES/OCARES</a>	145.170 MHz	Minus	131.8 Hz
Ocean County, NJ	Toms River	<a href="#">NJ2AR/JSARS</a>	448.625 MHz	Minus	141.3 Hz
Salem County, NJ	Pennsville	N2KEJ/SCRA	146.625 MHz	Minus	131.8 Hz
<b>*Bucks County, PA</b>	<b>Hilltown</b>	<a href="#">K3DN/WARC</a>	<b>443.950 MHz</b>	<b>Plus</b>	<b>131.8 Hz</b>
Bucks County, PA	Sellersville	<a href="#">W3AI/RFHARC</a>	444.750 MHz	Plus	103.5 Hz
Bucks County, PA	Southampton	<a href="#">W3SK/PWA</a>	146.790 MHz	Minus	131.8 Hz
Bucks County, PA	Southampton	<a href="#">W3SK/PWA</a>	448.225 MHz	Minus	131.8 Hz
Chester County, PA	Paoli	<a href="#">WB3JOE/MARC</a>	445.675 MHz	Minus	131.8 Hz
Delaware County, PA	Lawrence Park	W3DI	447.375 MHz	Minus	100.0 Hz
Montgomery County, PA	Horsham	K3JJO/DRC	147.165 MHz	Plus	162.2 Hz
Montgomery County, PA	Wyndmoor	<a href="#">K3PDR/PDRA</a>	447.475 MHz	Minus	Open
Philadelphia County, PA	Philadelphia	<a href="#">WM3PEN/HARC</a>	146.685 MHz	Minus	146.2 Hz
Philadelphia County, PA	Roxborough	<a href="#">W3QV/Phil-Mont</a>	444.800 MHz	Plus	186.2 Hz
Kent County, DE	Dover	<a href="#">KC3ARC/KCARC</a>	146.970 MHz	Minus	77.0 Hz
New Castle County, DE	Newark	<a href="#">W3DRA/DRA</a>	146.700 MHz	Minus	131.8 Hz
New Castle County, DE	Newark	<a href="#">W3DRA/DRA</a>	449.025 MHz	Minus	131.8 Hz
New Castle County, DE	Wilmington	WA3UYJ	146.955 MHz	Minus	131.8 Hz
<b>**Sussex County, DE</b>	<b>Lewes</b>	<b>W4ALT</b>	<b>443.550 MHz</b>	<b>Plus</b>	<b>156.7 Hz</b>
Sussex County, DE	Millsboro	<a href="#">WS3ARA/SARA</a>	449.825 MHz	Minus	156.7 Hz
Sussex County, DE	Selbyville	<a href="#">WS3ARA/SARA</a>	147.015 MHz	Plus	156.7 Hz

*\*New entry or update as of this issue.*

*\*\*As of January 20, 2016: Repeater in testing mode.*

## February Birthdays

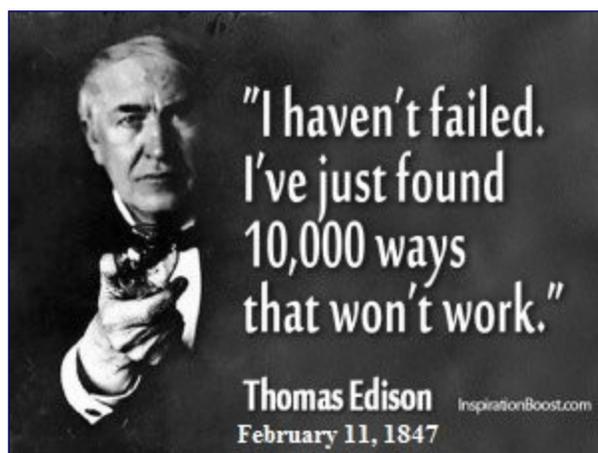
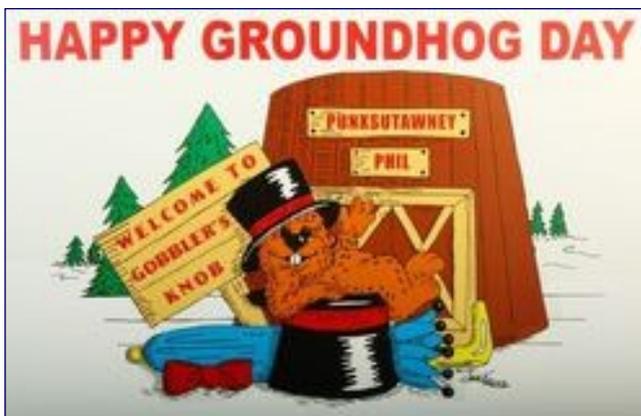
Congratulations to our members celebrating their birthday this month

**Chuck Colabrese WA2TML**  
**Tom Cusack KC2THO**  
**Pat Guilfooy AB2HM**  
**Jennifer Robinson KD2EYR**  
**Vinnie Sallustio N4NYY**  
**Herb Schuler K2HPV (President 1977)**  
**Tom Snorf KC2IKD**  
**Bill Szkromiuk W4WCS**  
**Christine West WA2MVU**

## In Memoriam February Birthdays

### Silent Keys:

Marla Bozarth N2DWR (President 1992, 1995)  
Milt Goldman K3WIL (President 1963)  
Bob Grimmer Sr KN2QWO  
Harry Lauer N3ISO  
Harry McCormick WA2SEA  
George Munns Jr KB2GW  
Richard Munyan Sr W2RCM  
Alvin Zipkin KZ2N



## Crosstalk Submissions

*This is your Club newsletter. Make use of it.*

If you have stories or photos of your hobby that you would like to share with the Club, please do so!

We will keep covering all of the GCARC events, but it is also nice to get those personal perspectives to include in every issue.

Connecting through experiences is what makes the Gloucester County Amateur Radio Club a *REAL* club.

All submissions, queries, comments and editorials should be addressed to Jeffrey Garth, KC2WCS at [jeff.garth <at> comcast.net](mailto:jeff.garth@comcast.net).

Submission deadline for the March 2016 issue: Sunday, February 20, 2016

Club Website [www.w2mmd.org](http://www.w2mmd.org)

Club E-Mail Reflector: [gcarc@mailman.qth.net](mailto:gcarc@mailman.qth.net)

## February Contest Calendar

For more information on the contests, please go to the WA7BNM Contest Calendar website:  
[www.hornucopia.com/contestcal](http://www.hornucopia.com/contestcal)

### February 2016

+ RSGB 80m Club Championship, SSB	2000Z-2130Z, Feb 1
+ ARS Spartan Sprint	0200Z-0400Z, Feb 2
+ QRP Fox Hunt	0200Z-0330Z, Feb 3
+ Phone Fray	0230Z-0300Z, Feb 3
+ CWops Mini-CWT Test	1300Z-1400Z, Feb 3 and 1900Z-2000Z, Feb 3 and 0300Z-0400Z, Feb 4
+ UKEICC 80m Contest	2000Z-2100Z, Feb 3
+ NCCC RTTY Sprint	0145Z-0215Z, Feb 5
+ QRP Fox Hunt	0200Z-0330Z, Feb 5
+ NCCC Sprint Ladder	0230Z-0300Z, Feb 5
+ YLRL YL-OM Contest	1400Z, Feb 5 to 0200Z, Feb 7
+ Vermont QSO Party	0000Z, Feb 6 to 2400Z, Feb 7
+ Triathlon DX Contest	0000Z-0759Z, Feb 6 (CW) and 0800Z-1559Z, Feb 6 (SSB) and 1600Z-2359Z, Feb 6 (RTTY)
+ 10-10 Int. Winter Contest, SSB	0001Z, Feb 6 to 2359Z, Feb 7
+ Black Sea Cup International	1200Z, Feb 6 to 1159Z, Feb 7
+ F9AA Cup, CW	1200Z, Feb 6 to 1200Z, Feb 7
+ FYBO Winter QRP Sprint	1400Z-2400Z, Feb 6
+ Minnesota QSO Party	1400Z-2400Z, Feb 6
+ British Columbia QSO Party	1600Z, Feb 6 to 0400Z, Feb 7
+ AGCW Straight Key Party	1600Z-1900Z, Feb 6
+ FISTS Winter Slow Speed Sprint	1700Z-2100Z, Feb 6
+ Mexico RTTY International Contest	1800Z, Feb 6 to 1759Z, Feb 7
+ North American Sprint, CW	0000Z-0400Z, Feb 7
+ ARRL School Club Roundup	1300Z, Feb 8 to 2359Z, Feb 12
+ NAQCC CW Sprint	0130Z-0330Z, Feb 19
+ QRP Fox Hunt	0200Z-0330Z, Feb 10
+ Phone Fray	0230Z-0300Z, Feb 10
+ CWops Mini-CWT Test	1300Z-1400Z, Feb 10 and 1900Z-2000Z, Feb 10 and 0300Z-0400Z, Feb 11
+ RSGB 80m Club Championship, Data	2000Z-2130Z, Feb 10
+ NCCC RTTY Sprint	0145Z-0215Z, Feb 12
+ QRP Fox Hunt	0200Z-0330Z, Feb 12
+ NCCC Sprint Ladder	0230Z-0300Z, Feb 12
+ CQ WW RTTY WPX Contest	0000Z, Feb 13 to 2359Z, Feb 14
+ SARL Field Day Contest	1000Z, Feb 13 to 1000Z, Feb 14
+ Asia-Pacific Spring Sprint, CW	1100Z-1300Z, Feb 13
+ KCJ Topband Contest	1200Z, Feb 14 to 1200Z, Feb 15
+ SKCC Weekend Sprintathon	1200Z, Feb 13 to 2400Z, Feb 14
+ Dutch PACC Contest	1200Z, Feb 13 to 1200Z, Feb 14
+ OMISS QSO Party	1500Z, Feb 13 to 1500Z, Feb 14
+ New Hampshire QSO Party	1600Z, Feb 13 to 2200Z, Feb 14
+ FISTS Winter Unlimited Sprint	1700Z-2100Z, Feb 13
+ RSGB 1st 1.8 MHz Contest	1900Z-2300Z, Feb 13
+ PODXS 070 Club Valentine Sprint	0000Z-2359Z, Feb 14
+ Classic Exchange, Phone	1400Z, Feb 14 to 0800Z, Feb 15 and 1400Z, Feb 16 to 0800Z, Feb 17

*February Contest Calendar - Continued on page 21*

## February Contest Calendar

For more information on the contests, please go to the WA7BNM Contest Calendar website:  
[www.hornucopia.com/contestcal](http://www.hornucopia.com/contestcal)

*February Contest Calendar - Continued from page 20*

+ QRP Fox Hunt	0200Z-0330Z, Feb 17
+ Phone Fray	0230Z-0300Z, Feb 17
+ CWops Mini-CWT Test	1300Z-1400Z, Feb 17 and 1900Z-2000Z, Feb 17 and 0300Z-0400Z, Feb 18
+ AGCW Semi-Automatic Key Evening	1900Z-2030Z, Feb 17
+ RSGB 80m Club Championship, CW	2000Z-2130Z, Feb 18
+ NCCC RTTY Sprint	0145Z-0215Z, Feb 19
+ QRP Fox Hunt	0200Z-0330Z, Feb 19
+ NCCC Sprint Ladder	0230Z-0300Z, Feb 19
+ ARRL Inter. DX Contest, CW	0000Z, Feb 20 to 2400Z, Feb 21
+ SARL Youth Day Sprint	0800Z-1000Z, Feb 20
+ Russian PSK WW Contest	1200Z, Feb 20 to 1159Z, Feb 21
+ Feld Hell Sprint	2000Z-2159Z, Feb 20
+ AWA Amplitude Modulation QSO Party	2300Z, Feb 20 to 2300Z, Feb 21
+ CQC Winter QSO Sprint	0100Z-0259Z, Feb 22
+ Run for the Bacon QRP Contest	0200Z-0400Z, Feb 22
+ SKCC Sprint	0000Z-0200Z, Feb 24
+ QRP Fox Hunt	0200Z-0330Z, Feb 24
+ Phone Fray	0230Z-0300Z, Feb 24
+ CWops Mini-CWT Test	1300Z-1400Z, Feb 24 and 1900Z-2000Z, Feb 24 and 0300Z-0400Z, Feb 25
+ UKEICC 80m Contest	2000Z-2100Z, Feb 24
+ NCCC RTTY Sprint	0145Z-0215Z, Feb 26
+ QRP Fox Hunt	0200Z-0330Z, Feb 26
+ NCCC Sprint Ladder	0230Z-0300Z, Feb 26
+ CQ 160-Meter Contest, SSB	2200Z, Feb 26 to 2200Z, Feb 28
+ REF Contest, SSB	0600Z, Feb 27 to 1800Z, Feb 28
+ UBA DX Contest, CW	1300Z, Feb 27 to 1300Z, Feb 28
+ South Carolina QSO Party	1400Z, Feb 27 to 0059Z, Feb 28
+ North American QSO Party, RTTY	1800Z, Feb 27 to 0559Z, Feb 28
+ High Speed Club CW Contest	0900Z-1100Z, Feb 28 and 1500Z-1700Z, Feb 28
+ SARL Digital Contest	1300Z-1600Z, Feb 28
+ North Carolina QSO Party	1500Z, Feb 28 to 0059Z, Feb 29



[www.facebook.com/W2MMD](http://www.facebook.com/W2MMD)

w2mmd.org



Facebook Page



<b>Club Committees</b>	
<b>Standing Committees</b>	<b>Committee Chairs</b>
<b>Membership</b> <b>Publicity</b> <b>Hamfest</b> <b>Repeater</b> <b>Hospitality</b> <b>Club Site</b> <b>Field Day</b> <b>Nominations</b> <b>Health and Welfare</b> <b>Budget</b> <b>Constitution and By-Laws</b>	<b>Cory Sickles, WA3UVV</b> <b>Cory Sickles, WA3UVV</b> <b>Sheldon Parker, K2MEN and Bill Price, NJ2S</b> <b>Michael Weldon, KB2UMJ</b> <b>Dave MacDonald, WB3JOY</b> <b>Al Arrison, KB2AYU</b> <b>Al Arrison, KB2AYU</b> <b>Jim Wright, N2GXJ</b> <b>Ray Martin, W2RM</b> <b>Al Arrison, KB2AYU</b> <b>Ron Block, NR2B</b>
<b>Activity Committees</b>	<b>Committee Chairs</b>
<b>ARES/RACES Emergency Communications</b> <b>Club Publications</b> <b>License Testing/VEC Liaison</b> <b>Programs</b> <b>Database/Roster</b> <b>Scout Liaison</b> <b>Historian</b> <b>Summer Picnic</b> <b>Foxhunts</b> <b>W2MMD License Trustee</b>	<b>John Zaruba Jr, K2ZA</b> <b>Jeffrey Garth, KC2WCS</b> <b>Gary Reed, N2QEE</b> <b>Cory Sickles, WA3UVV</b> <b>Jeffrey Garth, KC2WCS</b> <b>Frank Simila, KC2SJ</b> <b>Jeffrey Garth, KC2WCS</b> <b>Jennifer Robinson, KD2EYR</b> <b>Jim Wright, N2GXJ</b> <b>Darrell Neron, AB2E</b>

## **GCARC@mailman.qth.net e-mail reflector guidelines**

1. **No attachments** (e.g. pictures, files) are allowed on the reflector.
2. If you have club-related pictures that you would like to share, you can send them to the webmaster, he will put them on the website and he will send out a general e-mail to all the members.
3. Otherwise, the pictures will have to be sent to the members' addresses.
4. URLs/Hyperlinks are acceptable on the reflector.
5. Do not send any messages with e-mail addresses in the **BCC (Blind Carbon Copy)** field. The message will be rejected. Use only the **To:** or **CC:** fields.
6. Members are subscribed to the reflector using the member's e-mail address from the roster database. You must use that address when sending an e-mail via the reflector.
7. If you use another address on the reflector, the message will get rejected or "*bounced*", because the reflector does not recognize that address.
8. Whenever a message sent to reflector is rejected or "*bounced*" for various reasons, the administrator has to log-in to the Mailman.QTH website and approve the message. If the admin recognizes the address as belonging to a club member, the message is accepted and passed on to the reflector.

FYI...If you use Comcast e-mail, you are limited to 100 addresses per message.

For more information about the e-mail reflector, goto : [www.mailman.qth.net](http://www.mailman.qth.net)

## The W2MMD Repeaters

Output: 147.180 MHz  
Input: 147.780 MHz  
Offset: +600 kHz - PL: 131.8 Hz  
(Conventional FM plus C4FM Capability)

Output: 442.100 MHz  
Input: 447.100 MHz  
Offset: +5 MHz - PL: 131.8 Hz  
(Conventional FM plus C4FM Capability)

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 Hz  
Location: Sewell, NJ  
GPS: 39.781382°, -75.099963°  
Temporarily Off The Air

## Area Repeater Nets

SKYWARN™ Net  
Sunday @ 1945: 147.180 MHz

Gloucester County ARES/RACES Net  
Sunday @ 2000: 147.180 MHz

## Meeting Calendar

### *General Membership Meeting*

Wednesday, February 3, 2016 @ 1930 Hours  
Pfeiffer Community Center  
301 Blue Bell Road  
(Main Street and Blue Bell Road)  
Williamstown, NJ

### *Board of Directors Meeting*

Wednesday, February 17, 2016 @ 1900 Hours  
GCARC Clubhouse  
Gloucester County 4-H Fairgrounds  
235 Bridgeton Pike (Rt 77), Mullica Hill, NJ

## February 3, 2016 Club Meeting

### *Ham Radio Related Videos*

