



CrossTalk

Issue 57:12 57 Years Of Service To Our Community December 2016

2016 Club Officers

President :	Jim Wright, N2GXJ	Trustees - 4 year term	
Vice President :	Michael Weldon, KB2UMJ	Ray Martin, W2RM	<i>(2014-2016)</i>
Treasurer :	Al Arrison, KB2AYU	Brian Jones, KD2BXD	<i>(2014-2017)</i>
Recording Secretary :	Bob Fields, KC6AOH	Bob Demola, KD2GFL	<i>(2015-2018)</i>
Corresponding Secretary :	Ron Block, NR2B	Mark Gottlieb, WA2DIY	<i>(2016-2019)</i>

Board of Directors - 3 year term

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

This Month's Calendar...

Holiday Dinner 2016

Monday, December 5, 2016 @ 1800 Hours
Harrison House Diner & Restaurant

General Membership Meeting

Wednesday, December 7, 2016 @ 1930 Hours
Pfeiffer Community Center

VE License Testing Session

Thursday, December 8, 2016 @ 1900 Hours
Franklin Township Public Library
Gary Reed, N2QEE

Tech Saturday Forum

Saturday, December 10, 2016 @ 0900 Hours
GCARC Clubhouse

GCARC 2M Ragchew Net

Thursday, December 15, 2016 @ 2000 Hours
147.180 MHz Repeater

Board of Directors Meeting

Wednesday, December 21, 2016 @ 1900 Hours
GCARC Clubhouse

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GCARC 4th Annual Holiday Dinner



MONDAY, DECEMBER 5, 2016

HARRISON HOUSE DINER AND RESTAURANT

98 North Main Street Mullica Hill, NJ 08062

6 PM to 9 PM

Dinner Choices: \$28.00 pp-Includes Beverage, Soup and Dessert

Broiled Stuffed Flounder

Eggplant Parmesan

Pasta Primavera

Prime Rib

Roasted Turkey with Stuffing

BYOB

Email or Call Phyllis with your reservation and dinner choice by

November 25, 2016



Faith90@comcast.net or 856-694-0005



Seasons Greetings



President's Message



From the Clubhouse replacement project, to the modernization of our repeaters and repeater antenna systems, quite a bit has been accomplished by the club over these past three years, and we've had fun while doing it too! We brought back radio direction finding fox hunts, Tech Saturdays out at the Clubhouse, and a well-received summer picnic. Our members have been recognized for our volunteerism in support of emergency communications, as well as for support to the MS150 bike ride, and other charity events in our local communities. Each month, volunteer examiners in the club conduct one of the only regularly scheduled licensing and upgrade opportunities in the area. I've talked to people who have driven up from as far away as Maryland to get in on a licensing session. Thank you GCARC for your volunteerism and service!

GCARC gives back to our radio community. For example, GCARC serves as host for what has become a record setting Hamfest tradition in Southern New Jersey, with much thanks received from hams who make the pilgrimage to attend each year from all over the Tri-State area. Over the past few years, we've supported numerous radio demonstrations to local scouting organizations. We're always off the grid, but on the air during Field Day weekend. We've been invited as guest operators on board the museum ship Battleship New Jersey, headquarters for the annual museum ships on the air weekend each year. During the ARRL's centennial year, we operated as W1AW/2 from our new Clubhouse, representing NJ to the world from there. Some of our members put NJ on the air during the Original 13 Colonies On-The-Air celebration July 4 week each year. Some of our members helped provide emergency communications backup support during the Pope's visit to Philadelphia. The list goes on and on! Thank you GCARC for being active like this in the larger amateur radio community.

At our club meetings, we've had outstanding guest speakers, covering a wide range of topics. Among the guest speakers have been QRP operators who've walked the Appalachian Trail, a corporate giant from the software defined FlexRadio company, and a Nobel Prize recipient who invented the "JT" modes, who have come to talk to us from outside the club, and more. Most recently, the 'more' included our current ARRL Section Manager, who came to share his passion for CW with us at the last club meeting (thank you Skip!). For me, some of the most interesting talks have come from those within the club who have been willing to give back some, and share what they've learned with others, both at club meetings, and at the Tech Saturday Forum. Where else do you get the opportunity for face-to-face hands-on help and conversation and socializing with other hams and Elmers in this hobby like this? You just can't. Thank you GCARC for making these social and educational opportunities available!



Technology is opening up our hobby in many new ways, and it is you, our members, that are actively involved and continue to innovate in ways nobody would have imagined. It may seem ho-hum now, but some of our members were early adopters of D-STAR, and you may recall that it was GCARC that was one of the first to bring System Fusion digital voice repeater systems to the area. And don't forget the unveiling of the innovative "POD" built for local emergency communications support. I'm still amazed we were able to run all of this year's field day stations off of an electric truck. And all those "gizmos" we've learned about that are expanding what you can do with a handheld coupled to the internet.

President's Message - Continued on page 4

President's Message - Continued from page 3

And what about our new social media presence, the breadth and depth of our w2mmd.org website, our very popular Facebook page, the experiment with live web casting of our past few club meetings, and, of course, the electronic distribution of this fine Crosstalk publication? Fantastic! The list goes on and on!

And yet it is not all about technology. There is an appreciation and a welcome home for the satisfaction of a classic radio restoration, the skill of having a straight key CW contact, and the armchair comfort of a good old fashioned rag chew here as well. We really are lucky. It is an amazing time to be involved with this hobby we call Ham Radio, and a great time to be part of the Gloucester County Amateur Radio Club.

Thank you again for the honor and privilege of serving as your president,

Respectfully,
Jim Wright, N2GXJ
President, GCARC



Jim N2GXJ and Al KB2AYU, presenting a check for \$200.00 to ARRL SNJ Section Manager Skip Arey N2EI for ARRL Spectrum Defense Fund



A crowded parking lot at the November Tech Saturday Forum



Tech Saturday Forum : December 10, 2016

By John Zaruba Jr, K2ZA

0900 to 1200 Hours

The discussion theme for this month is:

**Mark Gottlieb, WA2DIY, and
his Apache Labs ANAN-10**

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Open Discussion Forum



Mark WA2DIY will give a demonstration of the Apache Labs ANAN-10 SDR transceiver along with using FLDIGI for the digital modes. For more information on this radio, please go to :

<https://apache-labs.com/al-products/1044/ANAN-10E--HF---6M-10W-All-Mode-Transceiver.html>

The Discussion Theme is a QSO starting point - a way to initiate a conversation. All Tech Saturday Forums are an open QSO of all 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 Monthly Wednesday Night General Membership meeting. For more information, go to www.w2mmd.org on the Tech Saturday Forum page.

“a Festivus for the rest of us”

December 23, 2016

Customary Practices:

Festivus Pole: A 6 foot aluminum pole

Festivus Dinner: Meatloaf, Spaghetti with red sauce.

The Airing of Grievances: It consist of each person lashing out at others and the world.

Feats of Strength: The head of the household challenges each guest to a wrestling match.

Festivus Miracles: It’s a miracle somebody hasn’t called the cops by now.





Down Jersey DXing - December 2016

By **Bill Grim, WØMHK**

With the exception of a very limited E44QX operation from rare Palestine in early December, DXpeditions and DX operations are taking a seasonal break for the holidays this month. FS, PJ4, MP5, J6 and H74 (YN) will show up for some short hop DXing to our South.

Let's hope the solar decline does not further discourage DX operations in 2017.

Enjoy the holidays and may your next DX QSO be an All-Time-New-One (ATNO)!

73, Bill WØMHK

Credits : NG3K Announce DX Operations : www.ng3k.com/Misc/adxo.html

Welcome New Club Member:

Robert Derderian, N2IPH, who has a General Class license and lives in Bridgeton, NJ.

Welcome Back Club Member:

Charles Wahl Jr, KC2STO, who has a General Class license and lives in Westville, NJ.

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

December 7, 2016 General Membership Meeting

2017 Club Officer Elections

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Year In Review



Southern New Jersey Section Manager's Report :

October 2016

By Skip Arey, N2EI

Our Section currently has 1,240 Full Members and 34 Associate Members

Thanks to everyone who stood by during the possible hurricane alerts during the early part of the month. Our Section is doing a great job being prepared ahead of such events.

The SNJ Section Team is happy to announce the appointment of Bob Fields KC6AOH as Assistant Section Manager for Gloucester County.

Our current Assistant Section Manger assignments are as follows:

- Atlantic - Arnold Oberson W2OB
- Burlington - Frank Huminski K2SQS
- Camden - Mark J. O'Brien K2AX
- Cape May - Timothy J. Cwik N2LTQ and Bill Cole N2CSA
- Cumberland/Salem - Chris Chamberlain N2IVN
- Gloucester - Bob Fields KC6AOH
- Mercer - Gary C. Wilson K2GW
- Ocean - Robert W. Schenck N2OO

Our current County Emergency Coordinator assignments are as follows:

- Atlantic - Bill Schwoer KC2AAY
- Burlington - John Kafka KB2BAA
- Camden - Tom Gorman KE2ES
- Cape May - Ed Taylor N2EWT
- Cumberland - Mike Harla N2HMO
- Gloucester - Currently Open - Managed by SEC Tony Otlowski W2WCC
- Mercer - John Pugh WJ3P
- Ocean - Bob Murdock WX2NJ
- Salem - Steve Turner N2KEJ

Many thanks to Walt KB2JCG for his efforts as Gloucester County EC. Walt is stepping down, but plans to remain active in ARES activities.

The ARRL and the FCC are currently working together to update and to make changes to the Official Observer/Amateur Auxiliary program. Because of these expected upcoming updates and changes, ARRL is placing a moratorium on applications for new Official Observers and Official Observer Coordinators at this time.

Remember that new rates for the ARRL Outgoing QSL Bureau go into effect on November 1, 2016. The rates will be \$1.15 per ounce, plus \$7.00 QSL Bureau service fee. You can find more information at:

<http://www.arrl.org/outgoing-qsl-service>

SNJ Section Report - Continued on page 8

The [National Parks on the Air](#) (NPOTA) program is shooting for One Million QSOs before the program ends on December 31st. We have opportunities to offer locations in Southern NJ including operating from:

- Lower Delaware Wild and Scenic River
- Maurice Scenic and Recreational River
- New Jersey Coastal Heritage Trail Route
- The Pinelands National Reserve
- Great Egg Harbor Scenic and Recreational River

Speaking of NPOTA, I want to give a special call out to Section member Joe N2CX. Joe has been doing yeoman's work offering park activations up and down the East Coast. He has helped a lot of us fill our log books with NPOTA contacts.

[Cape May County ARES/RACES](#) will hold its 2016 annual meeting on Saturday, December 10, 2016 @ 1130 Hours. The meeting will be held in the Operations Room at the County EOC, Basement of the Library, 30 West Mechanic Street, Cape May Court House, NJ.

The annual [Jamboree on the Air](#) (JOTA) was a big success. Congratulations to the scouts and supportive hams who helps make this event a special time for participants all over the world.

New Hams in our Section for this month:

Michele V Pillitteri, KD2LVC
Michael J Jamiolkowski, KD2LVD
Brian J Lees, N2WAR (ex.KD2LVB)
Shawn W Colbert, KD2LXX
Jeffrey S Clinton, KD2LWV
Joseph Lewis, KD2LVX
Jermaine Peterson, KD2LVW
Jeffrey A Jones, KD2LUT
Charles C Scarpa, KD2LUS
Mark F Howe, KD2LUK
Diane Rodgers, KD2LUF
David B Peins, KD2LWP

License Upgrades in our Section for this month:

Dennis A Colasurdo, KD2LRD to General
Michael P Mollet, N2SRO to General
Thomas J Poussart, WA2CJF to General
Larry R Davis, NJ2LD (ex.KD2BZA) to Extra
Doug Smith, KD2GZH to General
Stephen K Rodriguez, KD2JMA to General

73 de SKIP N2EI

ARRL Southern New Jersey Section
Section Manager: T J Arey, N2EI
n2ei <at> arrl <dot> org

Facebook Page: www.facebook.com/ARRL-Southern-New-Jersey-Section-for-Ham-Radio

Club Elections

By Jim Wright, N2GXJ

Per the club's constitution, elections will be held at the December meeting for next year's club officers, from the members previously nominated during the October and November club meetings. For both the Director and Trustee positions, multiple candidates have been nominated. Per our constitution, the highest vote recipient is selected. For the two Director positions, the two candidates receiving the most votes are selected for the two available positions. At the meeting, each candidate will be given the opportunity to take a few minutes to speak to the members, before the vote is taken. The slate of candidates (also posted on our w2mmd.org website) is:

- **President (1 Year Term)**
 - **Harry Elwell, K2ATX**
- **Vice President (1 Year term)**
 - **Tony Otlowski, W2WCC**
- **Recording Secretary (1 Year Term)**
 - **Bruce Canino, KD2LBU**
- **Treasurer (1 Year Term)**
 - **Al Arrison, KB2AYU**
- **Corresponding Secretary (1 Year Term)**
 - **Ron Block, NR2B**
- **Director (3 Year term) ***Please Vote for Two*****
 - **Lee Marino, N2LAM**
 - **Darrell Neron, AB2E**
 - **Miguel Ramirez, KC2HMG**
 - **John Zaruba Jr, K2ZA**
- **Trustee (4 Year term) ***Please Vote for One*****
 - **Jim Clark Sr, KA2OSV**
 - **Bob Fields, KC6AOH**

Note that in addition to elected positions, there are committee positions the incoming president will be looking to fill for next year. So even if not elected, there are still opportunities to serve.



Saturday, February 4, 2017 at the Richmond Raceway Complex - www.frostfest.com



ARRL Needs You to Help With A Final Push for the Amateur Radio Parity Act in this Congress

Dear ARRL member,

I am writing to you today because we are nearing the end of the 114th Congress and the efforts to obtain passage of The Amateur Radio Parity Act are at a critical juncture. With a few short weeks left to the year, we must get this bill passed NOW or we will need to start all over again come January 1, 2017.

As you know, thanks to your previous efforts, the legislative efforts scored a major victory in our campaign when the Amateur Radio Parity Act, H.R. 1301, passed in the House of Representatives on September 12th. The legislation is now in the Senate in two forms - as H.R. 1301 and alternately in the packaged bill S. 253. We still need every Senator to approve the bill.

You are one of over 730,000 licensed Amateur Radio Operators living in the United States. Many of you already live in deed-restricted communities, and that number grows daily.

We asked you for your help in September - and you responded in great numbers. We collected over 63,000 emails that were distributed to every single U.S. Senator. That is amazing. However, with the election hiatus over, each and every Senator must be reminded that their business is not complete until this important legislation affecting hams is passed and sent to the President.

Even if you wrote in the past, we need you to write again!

ONCE AGAIN I REMIND YOU THAT NOW IS THE TIME FOR ALL HAMS TO GET INVOLVED IN THE PROCESS!

- If you want to have effective outdoor antennas but are not currently allowed to do so by your Home Owner's Association, **PLEASE SEND THESE EMAILS TODAY!**
- If you don't live in a deed-restricted community, but you care about the future of Amateur Radio, please support your avocation and your fellow hams and **SEND THESE EMAILS TODAY!**

We need you to reach out one more time to your Senators **TODAY!** Right Away - Right Now!

Help us in the effort. Please go to this linked website and follow the prompts:

<https://arrrl.rallycongress.net/ctas/urge-us-senate-to-pass-amateur-radio-parity-act/letter>

Thank you.

73,

Rick Roderick, K5UR

ARRL - The National Association for Amateur Radio®, www.arrrl.org

The Physics of Santa Claus

A Scientific Disproof of the Santa Theory, and a couple of Rebuttals Thereto.

Original source: sirius@wam.umd.edu (The Human Neutrino aka Linda Harden)

Original Title: IS THERE A SANTA CLAUS?

1. No known species of reindeer can fly. BUT there are 300,000 species of living organisms yet to be classified, and while most of these are insects and germs, this does not COMPLETELY rule out flying reindeer which only Santa has ever seen.

2. There are 2 billion children (persons under 18) in the world. BUT since Santa doesn't (appear to) handle the Muslim, Hindu, Jewish and Buddhist children, that reduces the workload to 15% of the total - 378 million according to Population Reference Bureau. At an average (census) rate of 3.5 children per household, that's 91.8 million homes. One presumes there's at least one good child in each.

3. Santa has 31 hours of Christmas to work with, thanks to the different time zones and the rotation of the earth, assuming he travels east to west (which seems logical). This works out to 822.6 visits per second. This is to say that for each Christian household with good children, Santa has 1/1000th of a second to park, hop out of the sleigh, jump down the chimney, fill the stockings, distribute the remaining presents under the tree, eat whatever snacks have been left, get back up the chimney, get back into the sleigh and move on to the next house. Assuming that each of these 91.8 million stops are evenly distributed around the earth (which, of course, we know to be false but for the purposes of our calculations we will accept), we are now talking about .78 miles per household, a total trip of 75.5 million miles, not counting stops to do what most of us must do at least once every 31 hours, plus feeding etc. This means that Santa's sleigh is moving at 650 miles per second, 3,000 times the speed of sound. For purposes of comparison, the fastest man-made vehicle on earth, the Ulysses space probe, moves at a poky 27.4 miles per second - a conventional reindeer can run, tops, 15 miles per hour.

4. The payload on the sleigh adds another interesting element. Assuming that each child gets nothing more than a medium sized Lego set (2 pounds), the sleigh is carrying 321,300 tons, not counting Santa, who is invariably described as overweight. On land, conventional reindeer can pull no more than 300 pounds. Even granting that "flying reindeer" (see point #1) could pull TEN TIMES the normal amount, we cannot do the job with eight, or even nine. We need 214,200 reindeer. This increases the payload - not even counting the weight of the sleigh - to 353,430 tons. Again, for comparison - this is four times the weight of the Queen Elizabeth.

5. 353,000 tons traveling at 650 miles per second creates enormous air resistance - this will heat the reindeer up in the same fashion as spacecrafts re-entering the earth's atmosphere. The lead pair of reindeer will absorb 14.3 QUINTILLION joules of energy. Per second. Each. In short, they will burst into flame almost instantaneously, exposing the reindeer behind them, and create deafening sonic booms in their wake. The entire reindeer team will be vaporized within 4.26 thousandths of a second. Santa, meanwhile, will be subjected to centrifugal forces 17,500.06 times greater than gravity. A 250-pound Santa (which seems ludicrously slim) would be pinned to the back of his sleigh by 4,315,015 pounds of force.

In conclusion -- If Santa ever DID deliver presents on Christmas Eve, he's dead now.

Physics of Santa - Continued on page 12

Rebuttal: (Jim Mantle, Waterloo Maple Software)

Come on, ya gotta believe! I mean, if you can handle flying furry animals, then it's only a small step to the rest.

For example:

1. As admitted, it is possible that a flying reindeer can be found. I would agree that it would be quite an unusual find, but they might exist.
2. You've relied on cascading assumptions. For example, you have assumed a uniform distribution of children across homes. Toronto/Yorkville, or Toronto/Cabbagetown, or other yuppie neighborhoods, have probably less than the average (and don't forget the DINK and SINK homes (Double Income No Kids, Single Income No Kids)), while the families with 748 starving children that they keep showing on Vision TV while trying to pick my pocket would skew that 15% of homes down a few percent.
3. You've also assumed that each home that has kids would have at least one good kid. What if anti-selection applies, and homes with good kids tend to have more than their share of good kids, and other homes have nothing except terrorists in diapers? Let's drop that number of homes down a few more percent.
4. Santa would have to FedEx a number of packages ahead of time, since he would not be able to fly into Air Force Bases, or into tower controlled areas near airports. He would get shot at over certain sections of the Middle East, and the no-fly zones in Iraq, so he'd probably use DHL there. Subtract some more homes.
5. I just barely passed Physics and only read Stephen Hawking's book once, but I recall that there is some Einsteinian Theory that says time does strange things as you move faster. In fact, when you go faster than the speed of light time runs backward, if you do a straight line projection, connect the dots and just ignore any singularity you might find right at the speed of light. And don't say you can't go faster than the speed of light because I've seen it done on TV. Jean-Luc doesn't have reindeer, but he does have matter-antimatter warp engines and a holodeck and that's good enough for me. So Santa could go faster than light, visit all the good children which are not uniformly distributed by either concentration in each home or by number of children per household, and get home before he left so he can digest all those stale cookies and warm milk. Yech!
6. Aha, you say, Jean-Luc has matter-antimatter warp engines, Santa only has reindeer, where does he get the power to move that fast! You calculated the answer! The lead pair of reindeer will absorb 14.3 quintillion joules of energy. Per second. Each. This is an ample supply of energy for the maneuvering, acceleration, etc, that would be required of the loaded sleigh. The reindeer don't evaporate or incinerate because of this energy, they accelerate. What do you think they have antlers for, fighting over females? Think of antlers as furry solar array panels.
7. If that's not enough, watch the news on the 24th at 11 o'clock. NORAD (which may be one of the few government agencies with more than 3 initials in it's name and therefore it must be more trustworthy than the rest) tracks Santa every year and I've seen the radar shots of him approaching my house from the direction of the North Pole. They haven't bombarded him yet, so they must believe too, right?

Yet another Rebuttal to the rebuttal:

Several key points are overlooked by this callous, amateurish "study."

1. Flying reindeer: As is widely known (due to the excellent historical documentary "Santa Claus is Coming to Town," the flying reindeer are not a previously unknown species of reindeer, but were in fact given the power of flight due to eating magic acorns. As is conclusively proven in "Rudolph the Red Nosed Reindeer" (a no punches pulled look at life in Santa's village), this ability has bred true in subsequent generations of reindeer, obviously the magic acorns imprinted their power on a dominant gene sequence within the reindeer DNA strand.

2. Number of households: This figure overlooks two key facts. First of all, the first major schism in the Church split the Eastern Churches, centered in Byzantium, from the Western, which remained centered in Rome. This occurred prior to the Gregorian correction to the Julian calendar. The Eastern churches (currently called Orthodox Churches) do not recognize the Gregorian correction for liturgical events, and their Christmas is as a result several days after the Western Churches'. Santa gets two shots at delivering toys. Secondly, the figure of 3.5 children per household is based on the gross demographic average, which includes households with no children at all. The number of children per household, when figured as an average for households with children, would therefore have to be adjusted upward. Also, the largest single Christian denomination is Roman Catholic, who, as we all know, breed like rabbits. If you don't believe me, ask my four brothers and two sisters, they'll back me up. Due to the predominance of Catholics within Christian households, the total number of households containing Christian children would have to be adjusted downward to reflect the overloading of Catholics beyond a standard deviation from the median. Also, the assertion that each home would contain at least one good child would be reasonable enough if there were in fact an even 3.5 children per household. However, since the number of children per household is distributed integrally, there are a significant number (on the order of several million) of one child Christian households. Even though only children are notoriously spoiled and therefore disproportionately inclined towards being naughty, since it's the holidays we'll be generous and give them a fifty-fifty chance of being nice. This removes one half of the single child households from Santa's delivery schedule, which has already been reduced by the removal of the Orthodox households from the first delivery run.

3. Santa's delivery run (speed, payload, etc.): These all suffer from the dubious supposition that there is only one Santa Claus. The name "Santa" is obviously either Spanish or Italian, two ethnic groups which are both overwhelmingly Catholic. The last name Claus suggests a joint German/Italian background. His beginnings, battling the Burgermeister Meisterburger, suggest he grew up in Bavaria (also predominantly Catholic). The Kaiser style helmets of the Burgermeister's guards, coupled with the relative isolation of the village, suggest that his youth was at the very beginning of Prussian influence in Germany. Thus, Santa and Mrs. Claus have been together for well over one hundred years. If you think that after a hundred years of living at the North Pole with nights six months long that they remain childless, you either don't know Catholics or are unaware of the failure rate of the rhythm method. There have therefore been over five generations of Clauses, breeding like Catholics for over one hundred years. Since they are Catholic, their exponential population increase would obviously have a gain higher than the world population as a whole. There have therefore been more than enough new Santas to overcome the population increase of the world. So in fact, Santa has an easier time of it now than he did when he first started out.

Santa dead, indeed; some people will twist any statistic to "prove" their cynical theory.

*From the website: <http://www.daclarke.org/Humour/santa.html>
Special thanks to Mike Mollet, N2SRO, for this article suggestion.*

Recent Licensing Statistics

The following report of FCC licenses issued is supplied by Maria Somma, AB1FM, ARRL VEC Manager. Somma notes that 2016 licenses issued through the third quarter are up 5% from 2015's totals and are approaching 2014's record-setting pace. If this trend continues, we should see 32,000 new Amateurs and 11,000 upgrades by the end of this year!

Here's the breakdown of exam activity through the third quarter by license level:

Article credit : Radio Waves - Fall 2016. The American Radio Relay League. www.arrl.org

NEW and UPGRADED FCC LICENSES ISSUED PER YEAR BY QUARTER						
FCC License Activity	2011 3 rd Quarter	2012 3 rd Quarter	2013 3 rd Quarter	2014 3 rd Quarter	2015 3 rd Quarter	2016 3 rd Quarter
Technician	15,974	18,132	19,195	22,781	20,526	22,170
General	7,742	7,994	7,372	8,401	8,572	8,105
Amateur Extra	2,827	2,564	2,326	2,913	2,914	3,474
Total Issued	26,543	28,690	28,893	34,095	32,012	33,749

Southern New Jersey Section Club Station 2016 ARRL Field Day Results

South Jersey Radio Association	K2AA	15,006	6A	3,950
Gloucester County Amateur Radio Club	W2MMD	7,886	6A	1,750
Old Barney Amateur Radio Club	N2OB	7,872	4A	2,349
David Sarnoff Radio Club	N2RE	3,098	7A	371
Burlington County Radio Club	K2TD	2,984	3F	578
Southern Counties Amateur Radio Association	K2BR	2,782	4F	427
Audubon Radio Club/Audubon OEM	K2AUD	2,604	3A	748
Cape May County Amateur Radio Club	N2CMC	2,222	3A	351
Thunderbolts Amateur Radio Club	KB2OLT	662	3A	72
Princeton Emergency Radio Club	N2ARC	610	1F	30
Delaware Valley Ragchew Club	N2HQX	502	2A	26

ARRL Southern New Jersey Section
 Section Manager: T J Arey, N2EI
 n2ei <at> arrl <dot> org

WORD TO THE WISE

MUF - Maximum Usable Frequency:

The highest radio frequency that can be used to communicate between two locations when the path is via reflection off the ionosphere. When typically used as a descriptor of current conditions, it's the highest frequency that communications are perceived to be taking place. When used as a predictor, it's the highest frequency at which propagation may occur on 50% of the days of the month.



Hello GCARC Members

My name is Bob Fields and my call is KC6AOH. I want to introduce myself in regards to the upcoming Gloucester County Amateur Radio Club election. In this election I am running for the post of Trustee and would certainly appreciate your vote.

I was first licensed as a teenager with Novice Station WN6WUW, along with my brother Jamie who had the call WN6WUX. I have another brother Larry, who is very active as N6HPX and lives in the Philippines. He is a union seaman aboard various US Navy ships and has operated all over the world. Even my mother Mary, was active on the CB channels as a REACT station assisting the Truckers along Interstate 80 entering the San Francisco Bay Area. As you can see we were a very “radioactive” family.

Through the years I have been active with clubs in California and Pennsylvania. Most recently I was President of the Delaware County Amateur Radio Club for nearly ten years. You might know them as the 147.360 repeater group with their repeater in Upper Darby on Fitzgerald Mercy Hospital.

With both the East Bay ARC and the Delaware County ARC, I worked successfully to increase the size of the membership. Because of my previous success I would like to provide that same enthusiasm to increase the size of our group as well as my duties as a Trustee.

My membership campaign has been a combination of post cards, phone calls and demonstrations at local events inviting hams and interested parties to attend our meetings. The personal approach has proven to be the best way to let others know what our club can offer them. An increased presence in local print newspapers and on line newspapers is also much needed to get the word out.

After doing some extensive research I have discovered that there is nearly 500 hams within the foot print of our 147.18 repeater. Many are not aware of what a fine club we have and what we can offer them. With more personal invitations we can see our meetings become more attended.

I am very proud of the fact that because of my diligence with the San Francisco East Bay Club I was twice awarded the Outstanding Ham of the Year for increasing the size of the club from under 100 to nearly 300 members. Because I am retired I can devote much of my time to do such projects.

In addition to activities with the Gloucester Radio Club, I was recently appointed as the South Jersey ARRL Gloucester County Assistant Section Manager. I am very excited and proud that I was chosen for this position.

I would like to hear your suggestions on how I can help improve the GCARC community presence. I want to thank you for listening and hope you will vote for me as your Trustee in the upcoming election.

“After all with more hands we can do more things together!”

Field Day Results are in!

By Jim Wright, N2GXJ

As is the ARRL's tradition, they work to publish the results of June's Field Day exercises before the end of the year in the December issue of QST magazine. And the results are now in! As you will recall, we operated club portable, off the grid, with 6 simultaneous transmitters this year, all at 150 watts or less, this year, all powered from Al's home-built electric truck with the 'big berth' generator that has served our field day so well in the past available as a back-up. We never needed it.



According to the QST article, Field Day in the US knows no match for popularity. It is the single most participated in 24-hour Amateur Radio operating event, with over 26,000 persons participating across the US, Canada, and beyond. Though there was a national decline of about 15% in the overall QSO count logged, we still had fun, and did quite good without really even trying. For those who like to keep score, the ARRL has made detailed results available at http://www.arrl.org/results-database?event_id=80253. Operating under our club callsign W2MMD, out of 2696 entries in the database, you can see score was good enough to place us at #73. Wow! #73 out of 2696! That puts us in the top 3% of scores in the nation! Way to go GCARC!

ARRL 2016 Field Day Results for the Gloucester County Amateur Radio Club

	2016	Rank		Total #
Score	7,886	#73	out of	2,696
Category	6A	#7	out of	42
QSOs	1,750			
Power Mult	2	#61	out of	2,284
Section	SNJ	#2	out of	22
Division	AT	#12	out of	267
Participants	38			

ARRL 2015 Field Day Results for the Gloucester County Amateur Radio Club

	2015	Rank		Total #
Score	6,480	#152	out of	2,720
Category	8A	#7	out of	12
QSOs	1,606			
Power Mult	2	#135	out of	2,312
Section	SNJ	#2	out of	21
Division	AT	#11	out of	238
Participants	23			

DA's and DIT's

Gary Reed, N2QEE, reports that the November 10, 2016 VE session had 3 candidates, resulting in three new Technicians: Ken KD2MGS, Dan KD2MGT, and Masayoshi KD2MGU.



7th Annual Wreaths of Remembrance, Gloucester County Veterans Memorial Cemetery, December 3, 2016.

<https://pfpfoundation.givezooks.com/campaigns/wreaths-of-remembrance-2016>

Tony Otlowski, W2WCC, reports that the next SJ NBEMS net will be on November 30, 2016 @ 2030 Hours on the K2EOC 146.895 MHz repeater. The change is due to the Thanksgiving Day Holiday.

Skip Arey, N2EI: Just a quick reminder that the Senate is going back into session for the last time this year. If you haven't let your Senators know about your support for this bill now is the time to act.

<http://www.arrrl.org/amateur-radio-parity-act>

Dave Strout, W2YC, reports his ARRL 2016 Field Day score was 1,444 with 701 QSOs.

Congratulations to **Jim Clark Sr, KA2OSV**, for upgrading to Amateur Extra Class.



Newly installed **ARRL CEO Tom Gallagher, NY2RF** will visit the Fair Lawn Amateur Radio Club as a final speaker in their 60th Anniversary Speaker Series. Tom will address the direction of the ARRL and its impact upon clubs.

Date: Friday, December 9, 2016 at 1900 Hours.

Location: Fair Lawn Senior Center, 11-05 Gardiner Road, Fair Lawn, NJ.

Free Parking and Refreshments. For updates and details, see www.flarc.net

Darrell Neron, AB2E, reports : If any of you need Costa Rica for DXCC, look for me in the CQ World-wide CW contest during the Thanksgiving weekend as TI5/AB2E. In the contest I will be operating 160M-10M. Before and after the contest I will focus on WARC and 160M, 80M. Since it's also a family vacation, I may not be on that much outside of the contest. I will have special photo QSLs made and all logs will be uploaded to LoTW as well.



What's an ATNO? And is there a chance to get one December 10?

By Jim Wright, N2GXJ

ATNO is an amateur radio abbreviation for “All Time New One”. So, what's that? Basically, it is a radio contact with a station in a country that you've never had a contact with before on any band or mode.

Often, when a radio expedition is mounted to go to some rarely activated region, there are huge pile-ups of radio operators that try to get a confirmed contact with them often so that they can get credit towards their goal of achieving 100 countries (DXCC) or similar award. It is common practice for operators to try and make contact with these rare stations on multiple bands, and in multiple modes, to fill out their logs. However, doing so can block the opportunity, typically for smaller stations, to be able to get through at all to get that country on any band or mode in their log.

To be fair, some of these expeditions to exotic radio locations will often set aside ATNO days, typically at the end of their trip, to give the small guy a chance. For example, when the K1N DXpedition team was operating on Navassa Island (a rare radio location), they declared the last two days of their operation “ATNO days”, to offer a special opportunity for stations that have not yet worked K1N on any band or mode to try and do so. How is that enforced? In part it is courtesy on the part of those calling to try and get the DX station to respond, but in part it can be enforced by the DX operator simply looking at their computer contact log to know if there has already been a contact with the calling station on any band or mode. That won't happen, though, unless the DX station is specifically instructing callers to not call unless this is an ATNO for them.

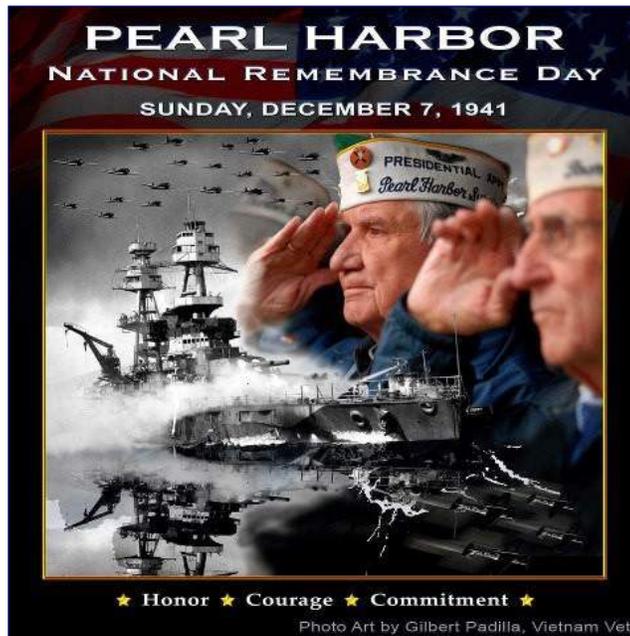
If the station is a rare one, and is not looking for ATNO, is there still a way, as a small station, to get through for your own all time new one? (Let me coin the phrase for that as an “All Time New One For Me”, ATNOFM). Absolutely yes! Some of it is timing. Some of it is luck. But mostly, it has to do with propagation. The higher the MHz is for the band that is open to a given location, the better has been my luck in getting through - even when just using a dipole in the attic of my house. When 10 Meters has an opening, it has been the best for me. It is because of 10 Meter openings that I managed the ATNOFM that I needed to put me over the 100 confirmed contacts needed for DXCC. And that worked for me to get to places like Easter Island, even when the DX station was not limiting who he was answering. So even now, during low periods in the solar cycle, I like to listen during different times of the day, to see what's out there, starting with the upper bands and then working my way down. But is there a way to improve the odds of a DX station being out there that you might want to add to your log?

Well, yes. It certainly helps when there are DX stations out there that are making an effort to be on the bands when you are listening. And that tends to happen when there is a major international radio contest on the air. So part of the strategy for catching those ATNOFM is to try and be active during international contest weekends, like the CQ Worldwide contest weekend just held at the end of October. You might have missed that one, but there are others coming up you may be interested in trying. They are listed regularly in the contest listings re-published in this Crosstalk magazine.



What's an ATNO? - Continued on page 19

Each year in December, the ARRL sets up a 10 Meter contest. I mention this one, even as a Technician class operator, you have voice privileges on this band. This year, that contest is on December 10 (details at www.arrl.org/10-meter). Could this be the ATNOFM opportunity you've been looking for? There will be big antennas out there - on the other side of my potential QSO, looking for little guys like me to answer their CQ's, so maybe. Depending on time of day, and the mercy of mother nature, solar conditions, and radio propagation at that time of day, it may be possible to pick up an ATNOFM for your log. It's not like you are going in for a high score, but there will be stations out there that will be eager to make contact with you to increase theirs. Why not go in with low expectations, and check from time to time during the day and early evening to see what's out there? You just never know unless you spin the dial to find out. Have fun, and good luck!



 National Weather Service
SKYWARN Recognition Day 

2016 SKYWARN™ Recognition Day
December 3, 2016, from 0000z to 2400z

SKYWARN™ Recognition Day was developed in 1999 by the National Weather Service and the American Radio Relay League. It celebrates the contributions that SKYWARN volunteers make to the NWS mission, the protection of life and property. Amateur radio operators comprise a large percentage of the SKYWARN volunteers across the country. The Amateur radio operators also provide vital communication between the NWS and emergency management if normal communications become inoperative. During the SKYWARN Special Event operators will visit NWS offices and contact other radio operators across the world.

<http://www.wrh.noaa.gov/mtr/hamradio/>

CrossTalk *December 2016* **19**

A Sampling of GCARC Happenings

By Jim Wright, N2GXJ

As I look forward to our Holiday Dinner party on December 5 (Yes, it is not too late to join in! Please call Phyllis with your reservation!), here's a sampling of just some of the things we've been able to do and enjoy together over this past year. It was a great year!

- January - Mark Gottlieb WA2DIY presents the DV4 Mega.
- January - John Zaruba K2ZA hosts Tech Saturday's Happy 1st Anniversary at the Clubhouse.
- January - Gary Bendy KC2YWJ and repeater committee gets new rack, wiring, coax, connectors, and filters installed at the Pitman repeater site.
- January - At the Clubhouse, installation of an electrical usage monitoring system and a new propane heater.
- February - Ham radio related videos.
- March - Tom Gorman KE2ES and Art Arnold N2CPR present NJOEM, NJSP, FEMA, and Amateur Radio.
- March - Bill Price NJ2S does the hiding for the "Luck of the Irish", Fox Hunt VIII.
- April - Vinnie Sallustio N4NYY, antique radio restoration.
- April - Club approves to acquire PA system equipment to support Hamfest and other events.
- May - John Zaruba K2ZA, D-STAR, the advantages of this digital technology.
- June - Pizza party, swap 'n shop, Dayton recap, and field day preview.
- June - Members provide communications support for the Tour de Pitman bike race.
- June - GCARC participates in ARRL Field Day 2016.
- July - Field day review and pictures.
- July - Members support 13 Original Colonies on the air (K2I from NJ).
- July - Gary Reed N2QEE and his crew of volunteer license examiners conducts first VEC testing session under the revised Extra question pool.
- July - GCARC summer family picnic.
- August - Al Arrison KB2AYU, SWR concepts.
- August - John K2ZA experiments with Wires-X connectivity for the 440 System Fusion repeater.
- August - Members operate from the Clubhouse during the North American QSO party.
- September - Social networking, Hamfest preview.
- September - 38th Annual GCARC Hamfest.
- September - Members provide communications support for the MS150 City to Shore bike ride.
- October - Urb LeJeune W1UL, Ham Cram method.
- October - Members provide communications support for the Pitman Crop Walk.
- October - The fall fox hunt, Fox Hunt IX.
- October - New 2 Meter repeater antenna installed at the Pitman repeater site.
- November - Skip Arey N2EI, CW code, keys, and communication.
- November - Arrangements made to get the aging 220 repeater at the Washington Township site replaced.
- December - Elections, socializing, photographs, "what I like about ham radio", the year in review.
- December - Holiday Dinner Party.

Element 3 General Class License Question Quiz

Questions from the Element 3 General Class License Question Pool. This will be regular feature to help Technicians upgrade to General Class. Answers on 'Last Page Calendar'.

Here are 10 more questions from Subelement G1: Commission's Rules

G1C06 [97.313]

Which of the following is a limitation on transmitter power on the 1.8 MHz band?

- A. 200 watts PEP output
- B. 1000 watts PEP output
- C. 1200 watts PEP output
- D. 1500 watts PEP output

G1C07 [97.305(c), 97.307(f)(3)]

What is the maximum symbol rate permitted for RTTY or data emission transmission on the 20-meter band?

- A. 56 kilobaud
- B. 19.6 kilobaud
- C. 1200 baud
- D. 300 baud

G1C08 [97.307(f)(3)]

What is the maximum symbol rate permitted for RTTY or data emission transmitted at frequencies below 28 MHz?

- A. 56 kilobaud
- B. 19.6 kilobaud
- C. 1200 baud
- D. 300 baud

G1C09 [97.305(c) and 97.307(f)(5)]

What is the maximum symbol rate permitted for RTTY or data emission transmitted on the 1.25-meter and 70-centimeter bands?

- A. 56 kilobaud
- B. 19.6 kilobaud
- C. 1200 baud
- D. 300 baud

G1C10 [97.305(c) and 97.307(f)(4)]

What is the maximum symbol rate permitted for RTTY or data emission transmissions on the 10-meter band?

- A. 56 kilobaud
- B. 19.6 kilobaud
- C. 1200 baud
- D. 300 baud

G1C11 [97.305(c) and 97.307(f)(5)]

What is the maximum symbol rate permitted for RTTY or data emission transmissions on the 2-meter band?

- A. 56 kilobaud
- B. 19.6 kilobaud
- C. 1200 baud
- D. 300 baud

G1D01 [97.501, 97.505(a)]

Who may receive credit for the elements represented by an expired amateur radio license?

- A. Any person who can demonstrate that they once held an FCC issued General, Advanced, or Amateur Extra class license that was not revoked by the FCC
- B. Anyone who held an FCC issued amateur radio license that has been expired for not less than 5 years and not more than 15 years
- C. Any person who previously held an amateur license issued by another country, but only if that country has a current reciprocal licensing agreement with the FCC
- D. Only persons who once held an FCC issued Novice, Technician, or Technician Plus license

G1D02 [97.509(b)(3)(i)]

What license examinations may you administer when you are an accredited VE holding a General Class operator license?

- A. General and Technician
- B. General only
- C. Technician only
- D. Extra, General and Technician

G1D03 [97.9(b)]

On which of the following band segments may you operate if you are a Technician Class operator and have a CSCE for General Class privileges?

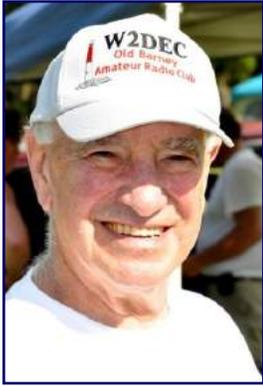
- A. Only the Technician band segments until your upgrade is posted in the FCC database
- B. Only on the Technician band segments until your license arrives in the mail
- C. On any General or Technician Class band segment
- D. On any General or Technician Class band segment except 30-meters and 60-meters

G1D04 [97.509(3)(i)(c)]

Which of the following is a requirement for administering a Technician Class license examination?

- A. At least three General Class or higher VEs must observe the examination
- B. At least two General Class or higher VEs must be present
- C. At least two General Class or higher VEs must be present, but only one need be Extra Class
- D. At least three VEs of Technician Class or higher must observe the examination

ARRL Ham Radio License Exam Practice Website
www.arrlexamreview.appspot.com



Please Thank a Vet

By Urb LeJeune W1UL

Introduction

A few day after Veterans Day I am still awash in the recognition vets received on their special day. In the interest of full disclosure, I spent two years on active duty and four years in the Army Signal Corps Reserve during the Korean War era, which probably doesn't make me an impartial observer.

In actuality, this story began about ten years ago. I was visiting relatives in Florida and was dispatched to the supermarket to procure a few last-minute items. As I was walking into the store a distinguished looking old timer was heading toward a car with Purple Heart courtesy license plates. (The Purple Heart is presented to United State military personnel who have been wounded in combat.) I walked over to him and put out my hand and said, "thank you for your service and sacrifice, I sincerely appreciate both." Whereupon he started to cry and said, "I've had these plates for ten years and you're the first person who has every said a word!" In the discussion that followed, he told me he was a Marine who received a serious leg wound while fighting on Iwo Jima. Sixty years later he still walked with a serious limp. He also received the Bronze Star for valor in action. My new-found friend dispatched me with a big hug and an emotional, "thank you." This chance encounter made my vacation and literally changed my life.

Over the ensuing years, I've frequently thought about this WWII hero. I wish I had taken his name and address so I could have remained in contact. It has also reminded me of the vast number of vets who gave their life or years of their life in the service of our country. You may be totally anti-war, but in my opinion, even the most avid pacifists owe homage to those who died or were willing to serve to give them the right to protest.

Looking for vets I would simply say, "thank you for your service" and shake their hand if the occasion presented itself. I am especially on the lookout for Viet Nam vets as they were the object of disdain when they came home. People would spit at them and called all types of names. Possible a few acts of kindness now can help erase the pain of their homecoming. When encountering a WWII vet, there aren't many left, I try and engage them in conversation. If I'm in the check-out line at a convenience store and there is a vet behind me with a container of coffee, I frequently tell the person at the cash register, "take out for the vet's coffee."

Epilog

Don't be surprised if thanking a vet, or other random acts of kindness, makes you feel better. Knowing you have brought a smile and a good feeling to another human being is a very special thing.

If you are thinking of getting, or upgrading, a ham license, or know someone who does, please check out my ham-cram.com website. It had three distinguishing characteristics:

1. You will not waste time and add confusion, studying incorrect answers.
2. You will only study the questions most likely to be on the VE test.
3. It's completely FREE.

<http://ham-cram.com>

73 Urb W1UL

urb <at> w1ul <dot> com

Dues, and Life Membership Opportunity

By Jim Wright, N2GXJ



Annual dues are still an incredibly low \$20 for full membership. Though \$20 might not seem like much, to the club, it's huge, as dues represent the second largest source of income in our operating budget each year. We thank you in advance for your January payment!

If you have not renewed your dues yet for 2017, just a friendly reminder that you can do so, starting now, either by sending your (still only) \$20 check (with your callsign on the memo line) payable to the Gloucester County Amateur Radio Club, P.O. Box 370, Pitman, NJ 08071, or in person at our December or January club meeting.

After your payment, which keeps your membership in good standing, there is another opportunity that you might not have been aware of, that you might like to consider. And that is the opportunity to apply for Life Membership in the Gloucester County Amateur Radio Club.

If you might be interested, and are considering applying for Life Membership, Article VI, Section 3 of our club's constitution defines the details, but let me summarize the basics here.

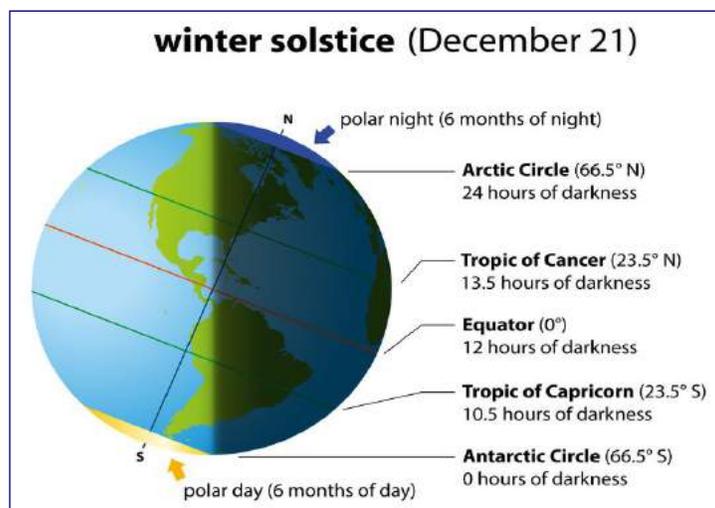
The cost is twenty times the current annual rate, or \$400. If you're a member in good standing with our club, and hold a valid amateur radio license, you may apply to the Board of Directors for Life Membership. You can do that via written petition, describing why you are interested in Life Membership, delivered to myself or one of the other club officers, or sent via snail mail to our club's mailing address. You may also appear in person at a Board of Directors meeting to deliver your petition in person. The Board of Directors meet on the third Wednesday of every month at 1900 Hours at our Clubhouse at the Gloucester County 4-H Fairgrounds in Mullica Hill, NJ. It is an open meeting that any club member is invited to attend.

If you think you might be interested, and you have any additional questions, please email them to me, and then we can set up a time to discuss.

Thank you,
Jim Wright

jim.n2gxj <at> gmail <dot> com

December 21, 2016
@ 0544 Hours



**CQ Worldwide DX Contest, SSB
October 29, 2016**

Call: WB2P
Operator (s) : WB2P, WA2TML
Station: WB2P

Class: M/2 HP
QTH: SNJ
Operating Time (hrs): 30
Location: USA

Summary: Compare Scores

Band QSOs Zones Countries

160:	21	5	14
80:	104	21	59
40:	150	24	66
20:	248	23	86
15:	254	24	72
10:	100	16	49

Total: 877 113 343
Total Score: 1,060,656

Club: Frankford Radio Club

Comments: WB2P at W2YC's Station

**CQ Worldwide DX Contest, SSB
October 29, 2016**

Call: AB2E
Operator (s) : AB2E
Station: AB2E

Class: SOAB(A) HP
QTH: NJ
Operating Time (hrs): 15
Location: USA

Summary: Compare Scores

Band QSOs Zones Countries

160:	38	7	19
80:	86	13	42
40:	87	15	39
20:	88	17	39
15:	100	17	40
10:	13	5	11

Total: 412 74 190
Total Score: 267,168

Club: Frankford Radio Club

Comments:

Antennas:
 160M Inverted-L
 80M Inverted-L
 40M Full-Wave Delta Loop
 20-10 G5RV

Rig: IC-7800 to PE Expert 1.3K-FA

Single op/2 ears. Never worked so hard for so little. Many of the usual big guns were puny weak or not to be found once called out. This was a totally S&P contest for me this year. 80M was my best band to be loud. I worked nearly everyone I heard on first or 2nd call. Thanks to all who called me, and I will see all of you as TI5/AB2E in CQWW CW end of November!

73 Darrell AB2E

**ARRL Sweepstakes Contest, CW
November 5, 2016**

Call: W2YC
Operator (s) : W2YC
Station: W2YC

Class: SO Unlimited HP
QTH: SNJ
Operating Time (hrs): 8

Summary: Compare Scores

Band QSOs

160:	4
80:	149
40:	102
20:	79
15:	16
10:	0

Total: 350 Sections: 83
Total Score: 58,100

Club: Frankford Radio Club

Comments:



ARRL Sweepstakes Contest, CW
November 5, 2016

Call: K2SE
Operator (s) : K2SE
Station: K2SE

Class: SO Unlimited HP
QTH:
Operating Time (hrs): 16.5

Summary: Compare Scores

Band QSOs

160:	
80:	223
40:	204
20:	83
15:	15
10:	

Total: 525 Sections: 78
Total Score: 81,900

Club: Frankford Radio Club

ARRL Sweepstakes Contest, CW
November 5, 2016

Call: AB2E
Operator (s) : AB2E
Station: AB2E

Class: SO Unlimited HP
QTH: SNJ
Operating Time (hrs): 8

Summary: Compare Scores

Band QSOs

160:	0
80:	255
40:	40
20:	69
15:	1
10:	0

Total: 365 Sections: 80
Total Score: 58,400

Club: Frankford Radio Club

Comments:

Very limited time this year, but 40M seemed very slow around 2300GMT. Had some nice runs on 80M and closed out the night there at 0900GMT when the rate dropped extremely low and few replies to my CQs. Worked VY1AAA in the first few minutes I was on. Missed SB, NL, and ONS for the Sweep. Nice to have so many friends call in.

73 Darrell AB2E

ARRL Sweepstakes Contest, SSB
November 19, 2016

Call: WB2P
Operator (s) : WB2P
Station: WB2P

Class: SO Unlimited LP
QTH: SNJ
Operating Time (hrs): 23:56

Summary: Compare Scores

Band QSOs

160:	
80:	303
40:	572
20:	332
15:	17
10:	

Total: 1224 Sections: 83
Total Score: 203,184

Club: Frankford Radio Club

Comments:

This is by far my favorite contest. Normally I earn the sweep within the first 5 hours, however I didn't get NT until 11:30AM EST on Sunday. This was the first contest that I tried to run more than search and pounce. I held on to 7.169 for 5 hours on Sunday. Had a long run on 80m also. It was awesome. 160m and 10m were totally dead. I only made 17 contacts on 15m to quickly grab 16 Mults. I did not get out of the chair for the first 10 hours, took a 6 hour nap, then stayed in the chair until 0256z. That made a real difference in my final score. Special thanks to W2YC for the use of the 40m Beam, (it makes a huge difference running LP) and for all of his contest mentoring in general. GO FRC!!!!



CHERRY VALLEY MODEL RAILROAD CLUB

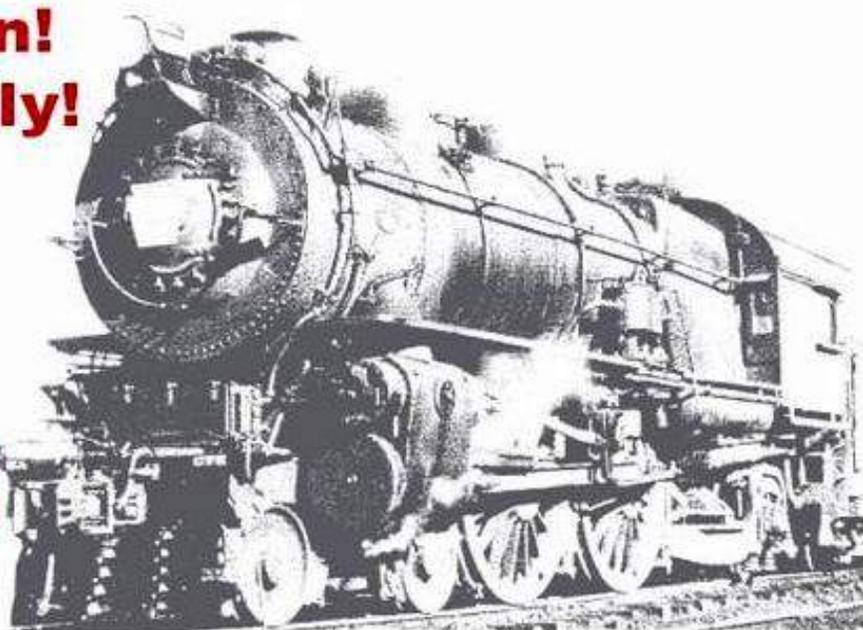
Holiday Open House!

Grace Church • 7 East Maple Ave.
Merchantville, NJ 08109

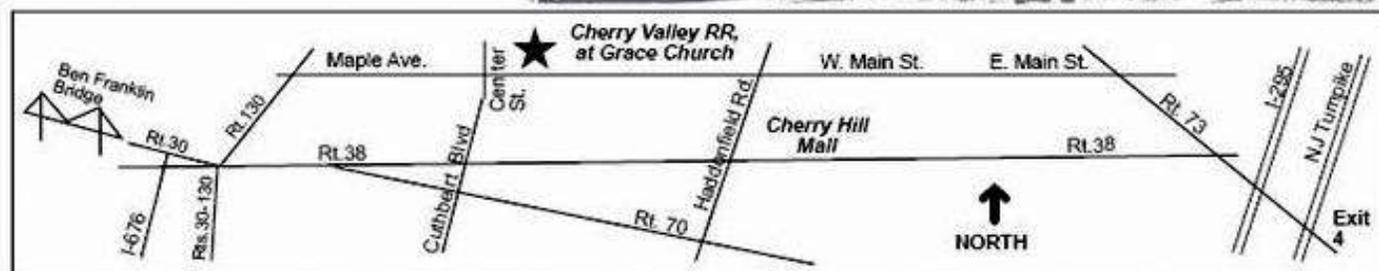
Friday, Dec. 2	6pm-9pm
Sat. & Sun, Dec. 3 & 4	12noon - 4pm
Sat. & Sun, Jan. 7 & 8	12noon - 4pm
Sat. & Sun, Jan. 14 & 15	12noon - 4pm

Free admission!
Bring the family!

For information contact:
John P. Dunn Sr.
609-432-2871
jdunn8888@comcast.net



**Enjoy the magic of
Model Railroading!**

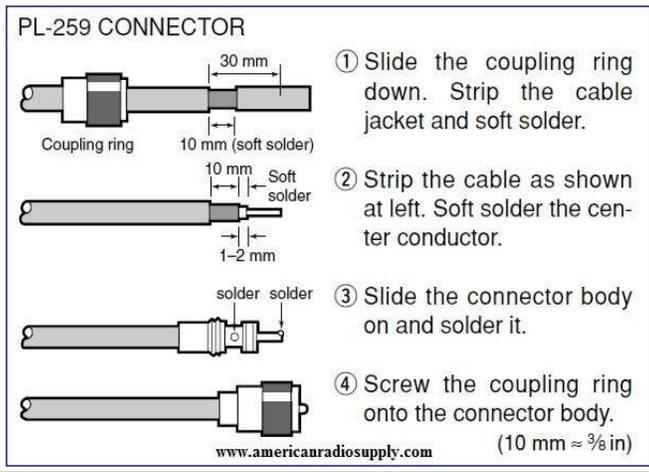




100 Watts at W2MMD Clubhouse Station - October 29, 2016

By Mark Gottlieb, WA2DIY

Date	Time	Call	Band	Freq	Mode	Grid	Country	Comments
10/29	20:02	VK4KW	15M	21.297	SSB		Australia	Phil Smeaton
10/29	19:51	ZM4T	15M	21.300	SSB	RF80lf	New Zealand	East Coast Contester
10/29	19:42	VK4NM	15M	21.265	SSB	QG52xi	Australia	Andrew Munson
10/29	19:29	CN3A	20M	14.266	SSB		Morocco	Contest Station
10/29	19:27	E7DX	20M	14.259	SSB	JN84ix	BosniaHerzegovina	E7DX Team Contest Callsign
10/29	19:25	EF1W	20M	14.246	SSB	IN73bi	Spain	Contest callsign of EA1WS
10/29	19:24	EA3PT	20M	14.241	SSB	JN11dw	Spain	Jordi Casali Portet
10/29	19:07	ZM4G	15M	21.221	SSB	RF80hl	New Zealand	Gary Hinson
10/29	19:01	LT1F	15M	21.263	SSB	FF96pu	Argentina	Bad Power The Private Antenna Field
10/29	18:52	TI1T	15M	21.291	SSB		Costa Rica	Carlos A Paez
10/29	18:24	KH6LC	15M	21.333	SSB	BK29mn	Hawaii	Lloyd J Cabral
10/29	18:20	PZ5K	10M	28.365	SSB		Suriname	Suriname CQ WW DX Contest
10/29	18:17	PQ5B	10M	28.483	SSB	GG52lh	Brazil	Contest Team
10/29	18:14	ZD8W	10M	28.498	SSB	II22tb	Ascension Island	Oliver Sweningsen
10/29	18:10	XE1B	10M	28.427	SSB	EK09jh	Mexico	OP Marcos aka Mark
10/29	18:08	PJ4X	10M	28.390	SSB	FK52ud	Bonaire	Different Activations
10/29	18:06	CE0Y/NO9E	10M	28.508	SSB		Easter Island	
10/29	17:54	PP1WW	10M	28.518	SSB	GG99up	Brazil	Wesley C Possatti
10/29	17:53	ZV5O	10M	28.518	SSB	GG54fo	Brazil	Special Callsign - Associao dos Radioamadores do Parana
10/29	17:50	V3A	10M	28.477	SSB	EK58ul	Belize	Marc M.
10/29	17:46	9Y4D	20M	14.264	SSB	FK90gg	Trinidad / Tobago	Christopher Ellis
10/29	17:42	EF2A	20M	14.311	SSB	IN83xh	Spain	Jon Zumalabe
10/29	17:26	S50L	20M	14.309	SSB	JN76fb	Slovenia	Radioclub Ljubljana



Regional Yaesu System Fusion Repeaters

County, State	Location	Callsign/Club	Frequency	Off-Set	PL Tone
Atlantic County, NJ	West Atlantic City	W2HRW/SPARC	443.250 MHz	Plus	146.2 Hz
Burlington County, NJ	Medford	K2AA/SJRA	145.290 MHz	Minus	91.5 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	K3RJC/HARC	444.900 MHz	Plus	131.8 Hz
Camden County, NJ	Cherry Hill	KB2UMJ	446.375 MHz	Minus	91.5 Hz
Camden County, NJ	Gloucester City	NJ2GC	447.775 MHz	Minus	146.2 Hz
Camden County, NJ	Runnemede	WA2WUN	147.225 MHz	Plus	192.8 Hz
Cape May County, NJ	Wildwood	WA2WUN	146.670 MHz	Minus	167.9 Hz
Gloucester County, NJ	Pitman	W2MMD/GCARC	147.180 MHz	Plus	131.8 Hz
Gloucester County, NJ	Pitman	W2MMD/GCARC	442.100 MHz	Plus	131.8 Hz
Ocean County, NJ	Manchester	WA2RES/OCARES	145.170 MHz	Minus	131.8 Hz
Ocean County, NJ	Toms River	NJ2AR/JSARS	448.625 MHz	Minus	141.3 Hz
Salem County, NJ	Pennsville	N2KEJ/SCRA	146.625 MHz	Minus	131.8 Hz
Bucks County, PA	Hilltown	K3DN/WARC	443.950 MHz	Plus	131.8 Hz
Bucks County, PA	Sellersville	W3AI/RFHARC	444.750 MHz	Plus	103.5 Hz
Bucks County, PA	Southampton	W3SK/PWA	146.790 MHz	Minus	131.8 Hz
Bucks County, PA	Southampton	W3SK/PWA	448.225 MHz	Minus	131.8 Hz
Chester County, PA	Jennersville	N3SLC/SLRC	145.250 MHz	Minus	114.8 Hz
Chester County, PA	Paoli	WB3JOE/MARC	445.675 MHz	Minus	131.8 Hz
Chester County, PA	Valley Forge	W3PHL/PARA	443.900 MHz	Plus	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	K3PDR/PDRA	447.475 MHz	Minus	Open
Philadelphia County, PA	Philadelphia	WM3PEN/HARC	146.685 MHz	Minus	146.2 Hz
Philadelphia County, PA	Roxborough	W3QV/Phil-Mont	444.800 MHz	Plus	186.2 Hz
Kent County, DE	Dover	KC3ARC/KCARC	146.970 MHz	Minus	77.0 Hz
Kent County, DE	Woodside	KC3ARC/KCARC	146.910 MHz	Minus	77.0 Hz
New Castle County, DE	Newark	W3DRA/DRA	146.700 MHz	Minus	131.8 Hz
New Castle County, DE	Newark	W3DRA/DRA	449.025 MHz	Minus	131.8 Hz
New Castle County, DE	Wilmington	WA3UYJ	146.955 MHz	Minus	131.8 Hz
Sussex County, DE	Bridgeville	W3TBG/NARC	145.210 MHz	Minus	156.7 Hz
Sussex County, DE	Lewes	W4ALT	443.550 MHz	Plus	156.7 Hz
Sussex County, DE	Millsboro	WS3ARA/SARA	449.825 MHz	Minus	156.7 Hz
Sussex County, DE	Seaford	N3KNT	146.715 MHz	Minus	156.7 Hz
Sussex County, DE	Selbyville	WS3ARA/SARA	147.015 MHz	Plus	156.7 Hz

December Birthdays

Congratulations to our members celebrating their birthday this month

Frank Bratton KD2HIK
Bart Conrad KC2WVP
Tom Gorman KE2ES (President 2012, 2013)
Bill Grim Jr W0MHK
Urb LeJeune W1UL
Gary Mirkin WA3SVW
Sheldon Parker K2MEN
Bill Robinson KD2ANM
Bob Saunders Jr KC2UYS

In Memoriam December Birthdays

Silent Keys:

August Bendler W2GUS
Joseph Bowen Jr KD2AE
Vincent Gadzinski WB2VNS
Arthur Goldman K3WIN
William Helmetag WA2VQG
Frank Malinowski Sr KE2NY
John Marshall KB2RGR
William O'Donnell Sr NT2N
James Peck W2LVW (President 1961)
Jack White WA2MEM (President 1974)
Norman Williams W2SPN*

** Editor note: Norman D Williams currently has this callsign*



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 <dot> garth <at> comcast <dot> net.

Submission deadline for the January 2017 issue: Tuesday, December 20, 2016

Club Website www.w2mmd.org

Club E-Mail Reflector: GCARC <at> Mailman <dot> QTH <dot> Net

December Contest Calendar

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

December 2016

+ NRAU 10m Activity Contest	1800Z-1900Z, Dec 1 (CW) and 1900Z-2000Z, Dec 1 (SSB) and 2000Z-2100Z, Dec 1 (FM) and 2100Z-2200Z, Dec 1 (Dig)
+ NCCC RTTY Sprint	0145Z-0215Z, Dec 2
+ QRP Fox Hunt	0200Z-0330Z, Dec 2
+ NCCC Sprint	0230Z-0300Z, Dec 2
+ ARRL 160-Meter Contest	2200Z, Dec 2 to 1600Z, Dec 4
+ TARA RTTY Melee	0000Z-2400Z, Dec 3
+ Wake-Up! QRP Sprint	0600Z-0629Z, Dec 3 and 0630Z-0659Z, Dec 3 and 0700Z-0729Z, Dec 3 and 0730Z-0800Z, Dec 3
+ TOPS Activity Contest	1600Z, Dec 3 to 1559Z, Dec 4
+ Ten-Meter RTTY Contest	0000Z-2400Z, Dec 4
+ SARL Digital Contest	1300Z-1600Z, Dec 4
+ ARS Spartan Sprint	0200Z-0400Z, Dec 6
+ QRP Fox Hunt	0200Z-0330Z, Dec 7
+ Phone Fray	0230Z-0300Z, Dec 7
+ CWops Mini-CWT Test	1300Z-1400Z, Dec 7 and 1900Z-2000Z, Dec 7 and 0300Z-0400Z, Dec 8
+ NCCC RTTY Sprint	0145Z-0215Z, Dec 9
+ QRP Fox Hunt	0200Z-0330Z, Dec 9
+ NCCC Sprint	0230Z-0300Z, Dec 9
+ ARRL 10-Meter Contest	0000Z, Dec 10 to 2400Z, Dec 11
+ SKCC Weekend Sprintathon	1200Z, Dec 10 to 2400Z, Dec 11
+ International Naval Contest	1600Z, Dec 10 to 1559Z, Dec 11
+ AWA Bruce Kelley 1929 QSO Party	2300Z, Dec 10 to 2300Z, Dec 11 and 2300Z, Dec 17 to 2300Z, Dec 18
+ CQC Great Colorado Snowshoe Run	2100Z-2259Z, Dec 11
+ NAQCC CW Sprint	0130Z-0330Z, Dec 14
+ QRP Fox Hunt	0200Z-0330Z, Dec 14
+ Phone Fray	0230Z-0300Z, Dec 14
+ CWops Mini-CWT Test	1300Z-1400Z, Dec 14 and 1900Z-2000Z, Dec 14 and 0300Z-0400Z, Dec 15

December Contest Calendar - Continued on page 32

December Contest Calendar

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

December Contest Calendar - Continued from page 31

+ NCCC RTTY Sprint	0145Z-0215Z, Dec 16
+ QRP Fox Hunt	0200Z-0330Z, Dec 16
+ NCCC Sprint	0230Z-0300Z, Dec 16
+ Russian 160-Meter Contest	2000Z, Dec 16 to 2400Z, Dec 17
+ AGB-Party Contest	2100Z-2400Z, Dec 16
+ OK DX RTTY Contest	0000Z-2400Z, Dec 17
+ RAC Winter Contest	0000Z-2359Z, Dec 17
+ Feld Hell Sprint	0000Z-2359Z, Dec 17
+ Croatian CW Contest	1400Z, Dec 17 to 1400Z, Dec 18
+ Stew Perry Topband Challenge	1500Z, Dec 17 to 1500Z, Dec 18
+ ARRL Rookie Roundup, CW	1800Z-2359Z, Dec 18
+ Run for the Bacon QRP Contest	0200Z-0400Z, Dec 19
+ QRP Fox Hunt	0200Z-0330Z, Dec 21
+ Phone Fray	0230Z-0300Z, Dec 21
+ CWops Mini-CWT Test	1300Z-1400Z, Dec 21 and 1900Z-2000Z, Dec 21 and 0300Z-0400Z, Dec 22
+ NAQCC CW Sprint	0130Z-0330Z, Dec 22
+ NCCC RTTY Sprint	0145Z-0215Z, Dec 23
+ QRP Fox Hunt	0200Z-0330Z, Dec 23
+ NCCC Sprint	0230Z-0300Z, Dec 23
+ RAEM Contest	0000Z-1159Z, Dec 25
+ DARC Christmas Contest	0830Z-1059Z, Dec 26
+ SKCC Sprint	0000Z-0200Z, Dec 28
+ QRP Fox Hunt	0200Z-0330Z, Dec 28
+ Phone Fray	0230Z-0300Z, Dec 28
+ CWops Mini-CWT Test	1300Z-1400Z, Dec 28 and 1900Z-2000Z, Dec 28 and 0300Z-0400Z, Dec 29
+ NCCC RTTY Sprint	0145Z-0215Z, Dec 30
+ QRP Fox Hunt	0200Z-0330Z, Dec 30
+ NCCC Sprint	0230Z-0300Z, Dec 30



www.facebook.com/W2MMD

w2mmd.org



Facebook Page



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

GCARC <at> Mailman <dot> QTH <dot> 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

The W2MMD Repeaters

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

Temporarily Off-The-Air

Output: 442.100 MHz
Input: 447.100 MHz
Offset: +5 MHz - PL: 131.8 Hz
System Fusion (C4FM) Only

Temporarily Off-The-Air

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°

Intermittent Operation

Will be replaced soon

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°

Area Repeater Nets

SKYWARN™ Net
Sunday @ 1945: 147.180 MHz

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

Question Pool Answers :
G1C06:D; G1C07:D; G1C08:D; G1C09:A; G1C10:C;
G1C11:B; G1D01:A; G1D02:C; G1D03:C; G1D04:A

Meeting Calendar

General Membership Meeting

Wednesday, December 7, 2016 @ 1930 Hours
Pfeiffer Community Center
301 Blue Bell Road
(Main Street and Blue Bell Road)
Williamstown, NJ

Board of Directors Meeting

Wednesday, December 21, 2016 @ 1900 Hours
GCARC Clubhouse
Gloucester County 4-H Fairgrounds
235 Bridgeton Pike (Rt 77), Mullica Hill, NJ

December 7, 2016 Meeting

2017 Club Officer Elections

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Year In Review



Gloucester County Amateur Radio Club - P. O. Box 370 - Pitman, NJ 08071

