



CROSSTALK

Issue 56:11 56 Years Of Service To Our Community November 2015

2015 Club Officers

President :	Jim Wright, N2GXJ	Trustees - 4 year term	
Vice President :	Cory Sickles, WA3UVV	Martin Wilt, W2ILT	<i>(2012-2015)</i>
Treasurer :	Al Arrison, KB2AYU	Ray Martin, W2RM	<i>(2014-2016)</i>
Recording Secretary :	Sheldon Parker, K2MEN	Brian Jones, KD2BXD	<i>(2014-2017)</i>
Corresponding Secretary :	Ron Block, NR2B	Bob Demola, KD2GFL	<i>(2015-2018)</i>

Board of Directors - 3 year term

Jeffrey Garth, KC2WCS	<i>(2013-2015)</i>	John Zaruba Jr, K2ZA	<i>(2014-2016)</i>
Mark Townsend, W2OCY	<i>(2013-2015)</i>	Chuck Colabrese, WA2TML	<i>(2015-2017)</i>
Dan Tremolini, N2TXG	<i>(2014-2016)</i>	Bill Price, NJ2S	<i>(2015-2017)</i>

This Month's Calendar...

General Membership Meeting

Wednesday, November 4, 2015 @ 1930 Hours
Pfeiffer Community Center

Tech Saturday Forum

Saturday, November 7, 2015 @ 0900 Hours
GCARC Clubhouse

VE License Testing Session

Thursday, November 12, 2015 @ 1900 Hours
Franklin Township Public Library
Gary Reed, N2QEE
[glreed49 <at> verizon <dot> net](mailto:glreed49@verizon.net)

Board of Directors Meeting

Wednesday, November 18, 2015 @ 1900 Hours
GCARC Clubhouse

GCARC 2M Ragchew Net

Thursday, November 19, 2015 @ 2000 Hours
147.180 MHz Repeater

GCARC 11:00 AM Brunch

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

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President's Message



Did you catch the discussion at the last club meeting? Philadelphia survived the Papal visit, as did (most) of the radio volunteers. Can't quite say the same for the MS 150 City to Shore, however, which was cancelled due to high winds and rain conditions. Hurricane Joaquin was flirting with the East Coast, and it could have been much worse if it had decided to pay us a landfall visit. With Hurricane Sandy still fresh in the minds of NJ residents, we are thankful it did not!

In case you had not heard, there have been some promotions announced recently in our radio community.



Congratulations to club member Tony Otlowski (new call W2WCC, former KD2AFY), who steps in as Section Emergency Coordinator for the ARRL Southern New Jersey section. He is swapping roles with club member John Zaruba Jr. (K2ZA), who is now his assistant. Congratulations also to Walt Seitz (KB2JCG), who steps in as Gloucester County Emergency Coordinator for club member Ed Champion (N2RO). Ed will be keeping the role as Radio Officer for RACES, working with Walt in that capacity.



And congratulations to club member Jennifer Robinson (KD2EYR), who has been appointed ARRL Assistant Section Manager for Salem County. Thank you all for your volunteer support to our local communities!

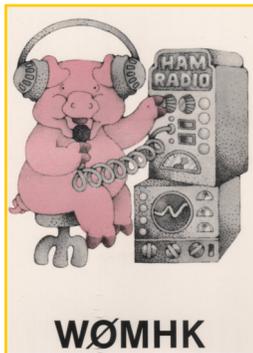
Feeling blue about radio propagation, and looking to have some radio fun anyway? Well, originally we'd planned a "spooky" fox-hunt for Saturday, October 31 morning. Going to have to wait a little longer! Jeff tells me his roof is getting re-done, so he won't be available to hide the transmitter for us then. We'll postpone until a later date in November. Sorry about that!

As we look forward to year's end, here's some good news to share! Thank you to Phyllis (W2PDB), who is organizing an all-inclusive Holiday Dinner for our club to finish out this year. Save the date: Thursday December 3, from 6 to 9pm. She asks to please email or call her with your reservation and dinner choice by November 25.

Money will be collected for the Holiday Dinner at the November 4, 2015 General Membership Meeting. The cost is \$25.00 per person. If Phyllis or Ray are not there, the treasurer, Al, KB2AYU, will accept the money.

And lastly, not sure if you knew about this. Did you know there is an opportunity this year to apply for Life Membership in the Gloucester County Amateur Radio Club? Perhaps that is something that you might want to consider. You'll find more details later in this edition of Crosstalk.

**Happy Thanksgiving everyone,
Respectfully,
Jim Wright, N2GXJ**



Down Jersey DXing

By Bill Grim, WØMHK

Well into mid-October we have seen only some improvement in the HF bands. 10 Meters and 12 Meters have shown a little "DX life", but not a great amount. No new explanations or theories have come forth about radio conditions other than the usual seasonal and solar cycle peaks and valleys. CQ Magazine's propagation column has predicted that conditions will be ALMOST as good as last year's many high scores in the CQ World Wide Phone DX Contest. But we'll just have to listen, operate, and see how the propagation map flops as we get into a colder November. At the least we will have generally less QRN especially on the low bands to help us hear better.

If HF conditions are poor, check WWV propagation reports at 18 minutes past each hour to see if what you are and are not hearing correlates to high K readings (3 and higher). With all our newer transceiver capabilities, just program in 10MHz, 15MHz and 25MHz AM to quickly check what the most recent Boulder, Colorado predictions are. Remember also, that the 25MHz frequency is a nice "beacon" as to whether 12M may be open.

The proverbial frost is now on the South Jersey pumpkins. Be advised that antenna parties and antenna maintenance will be progressively less "fun" as temperatures drop. A K9AY receiving antenna is a new addition to my antenna farm at the back of my property. We'll see if it enhances my receive capabilities on 160 and 80 Meters after spending a week "tweaking" it for winter low band use. The jury is out on just how much help this new RF "ear" will be for me.

There seems to be plenty of Caribbean DX operations for November. Even if 10 and 12 Meters are poor, those two bands at the least should provide you with some new North American band countries. Close to USA DX like J6, P4, PJ4, PJ7, and VP2E are all slated for November operations. They are usually easy QSOs to increase your "count" for the DXCC Challenge Award. It's quite a plaque for your shack wall and the basic award does allow you to count all band countries confirmed on 160 through 6 Meters!

The premier DXpedition for the month is the rare Willis Island group which will go under the call VK9WA. If you check its location on a map or globe you will notice it's in the Coral Sea off the northeast coast of Australia. That would ring a bell for you WWII buffs because of important naval battles in that area of the Pacific. Recent DXpeditions by TX3X and V73D to that general area of the world did not produce the greatest results for DXers in South Jersey. But possibly conditions will improve for this 10 day effort.

Don't forget to check your VOCAP Propagation Tables (as previously mentioned in "Crosstalk") to find the best times for your favorite modes and bands to this tough one. The team has promised to give emphasis to ATNO's (All-Time-New-Ones) to help your DXCC total.

Enough talk! Let's get on the air and watch those clusters for these DX picks of the month:

Down Jersey DXing - Continued on page 4

CALL	DATES	HIGHLIGHTS	DIFFICULTY (5=MOST RARE)	ENTITY
5R8IC	11/01 - 12/12	40-10M/CW, SSB, RTTY, PSK63	3	Madagascar
YJ0BJ	11/02 - 11/16	80-6M/CW, SSB	3	Vanuatu
3W	11/04 - 11/11	160-6M/CW, SSB	4	Vietnam
5Z4HW	11/04 - 11/18	160-6M/CW, SSB, RTTY, PSK31	2	Kenya
3C7GIA	11/12 - 11/23	HF/CW, SSB, RTTY	3	Equatorial Guinea
VK9WA	11/14 - 11/23	80-10M/CW, SSB, RTTY	5	Willis Island
S79C	11/15 - 11/23	40-10M/CW, SSB, RTTY	3	Seychelles
9X0DH	11/18 - 12/02	80-10M/CW, SSB	3	Rwanda
CE0Y	11/24 - 12/02	HF/CW, SSB	2	Easter Island
T2TT	11/24 - 12/03	80-10M/CW, SSB	3	Tuvalu
	11/28 - 11/29	CQ Worldwide CW DX Contest Check NG3K ADXO for DX Participants		

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

Welcome New Club Members:

Bruce Foster, KD2ITE, who has a Technician Class License and lives in Salem, NJ.

Michael Korejwo, KB3HMR, who has an Amateur Extra Class License and lives in Woodlyn, PA.

Kent Simmons, N3BKR, who has an Advanced Class License and lives in Springfield, PA.

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

Club Elections - Recording Secretary Candidates Wanted

By Jim Wright, N2GXJ

An initial slate of candidates was presented at the October Club Meeting.

We have an opening for the position of Recording Secretary for next year.

Nominations will be open for elected club officer, board of director, and trustee positions again at the November 4th Club Meeting, with voting taking place at the December 2nd Club Meeting.

Please help us out if you can.





September 2015 SNJ Section Report

Well, I am back from a weekend of Section Manager Training at ARRL HQ. I had the opportunity to make and renew acquaintances with many other Section Managers. We discussed current and upcoming League initiatives. It was a great experience.

Kudos and deepest respect to all our SNJ Section participants in last weekend's Papal Celebration. You folks worked very hard and showed what our Section can accomplish. Well Done!!!

The SNJ Section is pleased to announce a friendly changing of the guard in two important positions. John Zaruba K2ZA will be moving to the position of Assistant Section Emergency Coordinator and current AEC Tony Otlowski, W2WCC, will be moving into the Section Emergency Coordinator position. As many of you know, these two gentlemen have worked closely with one another on many projects so the Section will be able to continue to have the same excellent Senior Team support in this area.

Keep an eye out for SPAM Messages relating to your account status at arrl.net. ARRL HQ is aware of the problem but if you see any messages that seem questionable, feel free to forward them my way and I'll send them on to the League IT team.

The [Gloucester County Amateur Radio Club](#) held its annual Hamfest on September 13. It was very well attended and our Division Director Tom Abernathy W3TOM was in attendance. We were able to get many letters in support of **The Amateur Radio Parity Act of 2015** signed and ready to deliver to SNJ Representatives in Washington.

The [Delaware Valley Radio Association](#) held its annual Hamfest on September 19.

The [NJ QSO Party](#) occurred over the September 19-20 Weekend. I hope to be able to post results in the next Newsletter.

The [Old Barney Radio Club](#) will be hosting a presentation by 1993 Nobel Prize Winner Joe Taylor K1JT called "From Pulsars to Weak Signal DXing". Tuesday October 6, 7:30 PM at the Ocean Acres Community Center, 489 Nautilus Drive, Manahawkin, NJ 08050. For more information contact Urb LeJeune WIUL at 609-937-5487. All are welcome.

On Thursday October 8, I will be speaking at the **Amateur Radio Society of South Jersey**. The Club meets at 7PM at the Cumberland County OEM (911 Center), 637 Bridgeton Avenue, Bridgeton, NJ

Congratulations to **John N2HWS** and **Rodney KD2IVV** on their recent License Upgrades.

As I send this Newsletter out, I am sure everyone is keeping an eye on the movements of Hurricane Joaquin. Check your equipment and your alternate power sources. This could be a major event. Please stay safe.

ARRL Southern New Jersey Section
Section Manager: T J Arey, N2EI
n2ei@arrl.org



GCARC 3rd Annual Holiday Dinner

THURSDAY, DECEMBER 3, 2015

SEVEN STAR DINER AND RESTAURANT

1890 Hurffville Road (at Rt. 47 & 41), Sewell, NJ 08080

6 PM to 9 PM

All Inclusive Dinner, Cash Bar- \$25.00

Dinner Choices:

- **Roast Top Sirloin**
- **Roast Turkey**
- **Chicken Marsala**
- **Broiled Flounder**
- **Eggplant Parmesan**

**Email or Call Phyllis with your reservation and dinner choice by
November 25, 2015**

Faith90@comcast.net or 856-694-0005



Seasons Greetings



Now, “Clarity on Parity” - the Video!

October 08, 2015

In August, the ARRL acted to address objections and concerns being raised by representatives of community and neighborhood associations regarding the Amateur Radio Parity Act of 2015 - H.R. 1301 (www.arrl.org/amateur-radio-parity-act) and S. 1685.

“Clarity on Amateur Radio Parity” (www.arrl.org/files/file/Regulatory/Clarity%20on%20Parity.pdf) made it clear that the bill would not create new federal policy with respect to outdoor amateur antennas, nor would it require homeowners associations to approve huge radio towers.

Now, a new video - “The Amateur Radio Parity Act of 2015 - Separating Fact from Fiction” - (www.youtube.com/watch?v=AMY-5U1cJ6E) doubles down on the arguments contained in the League’s August statement. ARRL President Kay Craigie, N3KN, said the video will be made available on Capitol Hill to make sure that Members of Congress have correct information, instead of misrepresentations.

“This short video is a companion piece for the “Clarity on Parity” statement on the ARRL website,” President Craigie said. “The video not only explains what H.R. 1301 and S. 1685 are all about, but knocks down specific misinformation that opponents have been circulating on Capitol Hill.”

The nearly 6 minute video begins by explaining Amateur Radio - and especially its public service role - in layperson’s terms. It includes video clips of FEMA Administrator Craig Fugate, KK4INZ, who addressed the value of Amateur Radio in emergencies when he spoke at the ARRL Centennial National Convention in 2014, and of Senator Roger Wicker of Mississippi, the sponsor of S. 1685, the Senate bill.

As the presentation outlines, radio amateurs living in deed-restricted neighborhoods may face “cookie cutter prohibitions” on outdoor antennas. It notes, however, that the FCC recognizes a strong federal interest in effective Amateur Radio communication from residences and, in 1985, adopted the PRB-1 limited preemption of state and local regulation of Amateur Radio antennas. As the statement - and now the video - point out, the Amateur Radio Parity Act of 2015 would extend that limited preemption to private land-use restrictions.

The legislation “takes the time-tested 30 year old reasonable accommodation standard [in PRB-1] and applies it to deed-restricted communities,” the video states. “Unfortunately, there is a smear campaign against this legislation, and we need to respond to these blatant lies.”

The video stresses that neighborhood homeowners associations (HOAs) would have the flexibility to reasonably accommodate amateur antennas in a manner that best suits the particular community, although HOAs could not just say “no.” The legislation also does not take away any jurisdiction from community associations, nor does it negate any private contracts, the video asserts. “HOAs, not the hams, will decide on height and placement of radio antennas,” it says. “Amateur Radio operators in these communities just want a seat at the table to negotiate a reasonable accommodation from HOAs, but HOAs don’t want there to even be a table.”

As the video concludes, “Opposing reasonable accommodation is just unreasonable.”

Clarity on Parity - Continued on page 8

President Craigie suggested that League members could use the video at club meetings to help their fellow hams understand the legislation and show why it's so important to urge members of the US House and Senate to support the bills, which have more than 100 supporters in both chambers. "If your club has an e-mail reflector, Twitter feed, Facebook page, or newsletter, you could add a link to the video to make it easy for people to find it online," she said.

President Craigie said her Congressman in Southwest Virginia is a co-sponsor of H.R. 1301. "I went to his official website and sent an e-mail thanking him and politely refreshing his memory about the appreciation we hams in the district have for his support," she said.

"I'd like everyone whose representative is already a cosponsor to call a local office or put a short e-mail on the official website saying, 'Thank you!' This is a great way to keep the legislation in the Representative's mind and to let him or her know that the decision to co-sponsor is still very much on our minds. We should never take their support for granted. Speak out for Amateur Radio!"

Visit the ARRL website's [Amateur Radio Parity Act of 2015](#) page for more information about this legislation and how you can get involved.

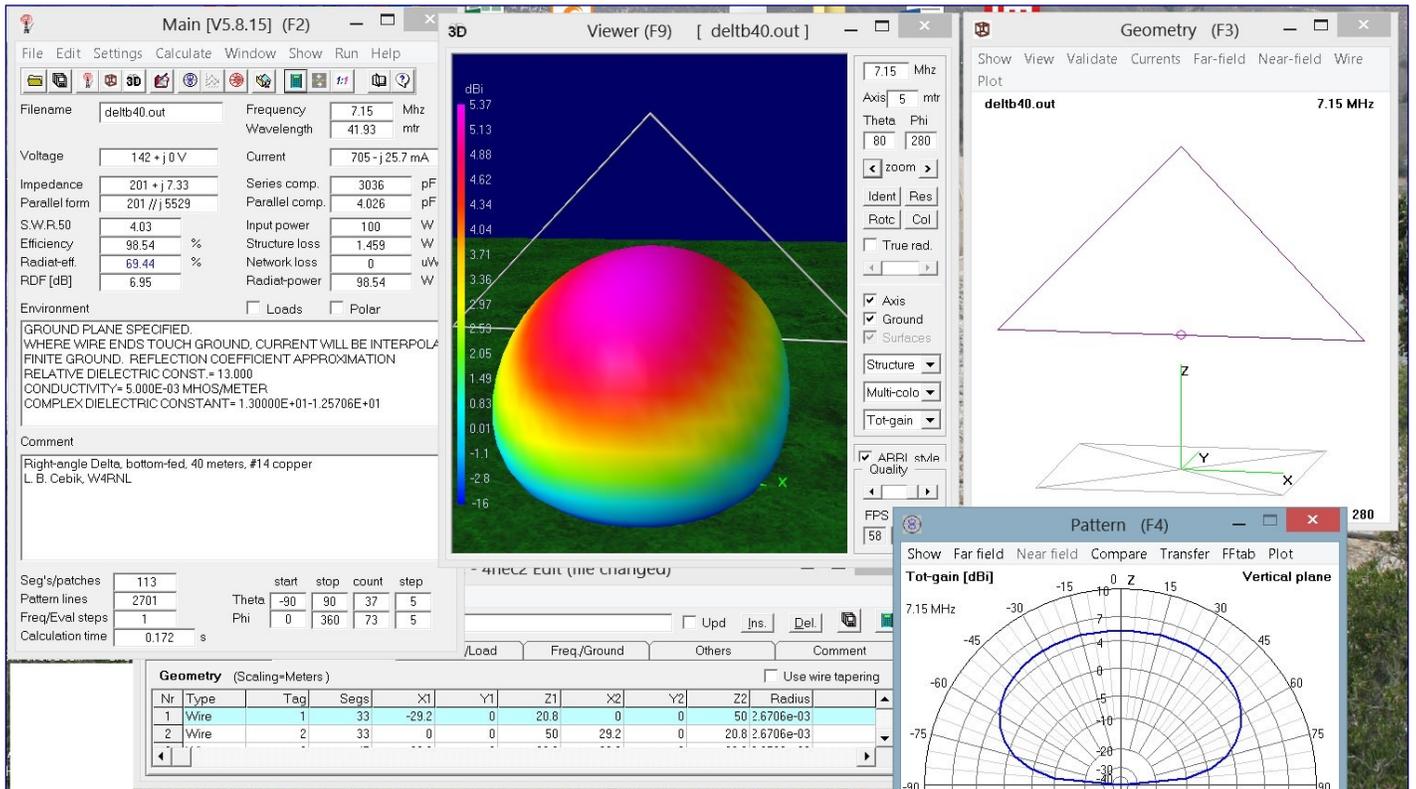
Article Credit : The American Radio Relay League - www.arrl.org.

Club Meeting - November 4, 2015 : Radio Software Series – 4nec2 Free Antenna Modeling - What can it do for me? By Jim Wright, N2GXJ

Part of the fun of being a licensed amateur radio operator is that we get to tinker with stuff. And one of the easiest things to tinker with is home built antennas, particularly wire antennas. They are cheap to build and can be great performers. But wouldn't it be nice if you could try out a couple of antenna choices in the comfort of your own home, before going outside and building one and then seeing if it would work, and then all the tinkering time using trial and error to figure out how to make it better? Well, turns out you can! And the 4nec2 software to help you do it is FREE! <http://www.gsl.net/4nec2/>

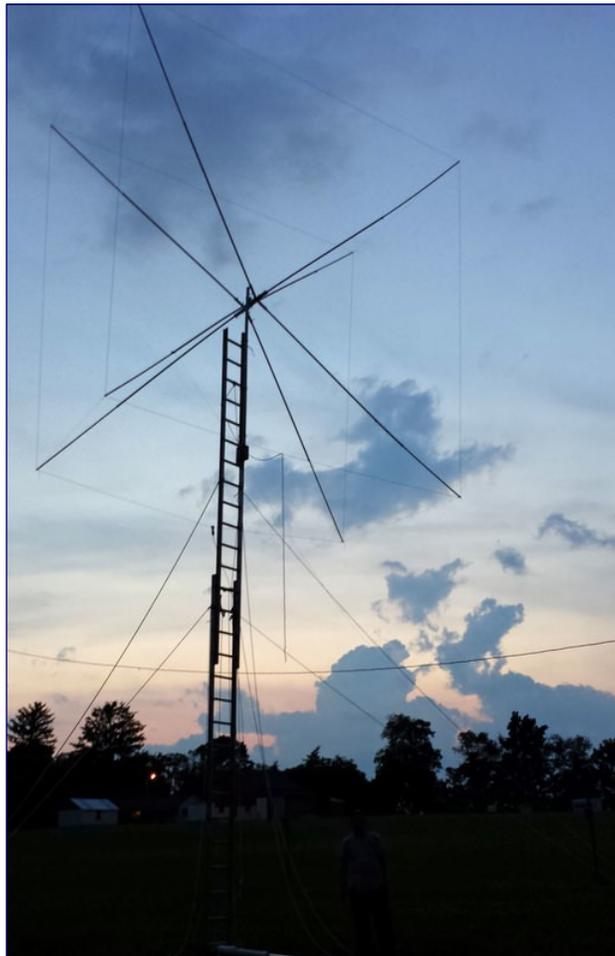
Now all you need is someone to show you how to use that software. Well, you are in luck! That is what we have in store for you at the November 4 club meeting! Take a look at some of the wire antennas your fellow club members have made for field day, as examples. See examples on page 9. What's your next field day antenna going to be? With 4nec2 software, and lessons learned at the club meeting on November 4, you'll be on your way to finding out!

Hope to see you there!



4nec2 Program - Delta Loop Wire Antenna

**Wire Antenna
used on Field
Day**





Tech Saturday Forum : November 07, 2015

By John Zaruba, K2ZA

0900 to 1200 Hours

The subject of November's Tech Saturday Forum will be about Amateur Radio Satellite Communications using the Clubhouse radio equipment and antennas.



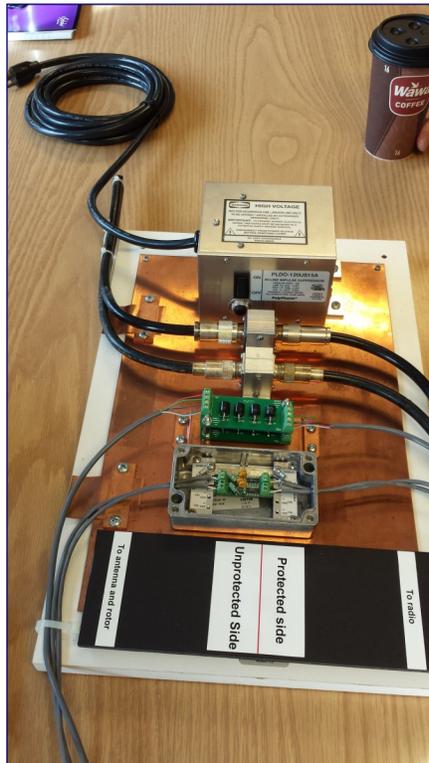
The objective of the Tech Saturday Forum is to have an open discussion of subjects of Amateur Radio interest. All questions are welcome as well as a venue for members to show off their latest ham radio projects or gadgets. All are welcome - hams and non-hams - club members and non-club members. Take 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 on the Tech Saturday Forum page.



Pictures from the October 10, 2015 Tech Saturday Forum featuring Ron Block, NR2B.

Ron gave a presentation on grounding and lightening protection.



CHERRY VALLEY MODEL RAILROAD CLUB



Swap Meet - Train Show
Sat, November 14. 9^{am}-1^{pm}

Grace Church Merchantville, NJ

Admission: \$5.00

Spouse, Children under 16
and Active Military: FREE

Dealers!

Tables: \$25

includes 1 admission.

each add'l table: \$20

*Reserve early, our last
show sold out!*

For table info contact:

Chris Crane

732-548-0210 before 9pm

cherryvalleyrr@verizon.net

7 East Maple Avenue
and Center Street.

2 rail O Scale Train Sale!
Detail Parts & Accessories,
Scenery items

Huge Operating Layout!
Food & Refreshments!
Off-Street Parking!

The place to Buy!
The place to Sell!

**The club layout opens
at 10am (free admission)**



Information courtesy of club member Ernest Kraus, KD2EAV

World Meeting of Families Gathering - September 25-27, 2015

By Jennifer Robinson, KD2EYR

The World Meeting of Families is a gathering of the Roman Catholic Church that occurs every three years. It is arranged by the Pontifical Council for the Family and “promotes the pastoral care of families, protects their rights and dignity in the Church and in civil society, so that they may be able to fulfill their duties.” The most recent meeting took place in Philadelphia and Amateur Radio operators, in several different positions and avenues, were a part of this gathering.

Amateur Radio operators were on hand to plan and work for the Cooper Medical Coordination Center Auxiliary Communications (MCC AUXCOMM). Our responsibility, as assigned by the MCC, was to be the AUXCOMM support for the New Jersey Emergency Medical Services Task Force. The EMS Task Force is a volunteer specialized EMS team, that supports operations at major and pre-planned events using a coordinated, all-hazards approach. This team is coordinated through the New Jersey Office of Emergency Management and the New Jersey Department of Health.



The MCC AUXCOMM consisted of 28 licensed operators from New Jersey, Delaware and Connecticut. We were dispatched to Cooper Medical Center on Friday, September 25th with the understanding that we may be in place until Sunday, September 27th. Our location would be in Camden, New Jersey in and around the Ben Franklin Bridge. We would be supporting four (4) first aid stations and one (1) SMED (Stand-alone Mobile Emergency Department). The operational plan for Camden was to accommodate the PATCO transportation system, the River Line and personal vehicle parking. The plans for the bridge included the complete closure of the bridge and the opportunity for all visitors to park in Camden and walk the span to the Philadelphia side where the festivities were taking place.

Our deployment equipment were POD Runners, an all-inclusive radio equipment station that included the following:

- Icom ID-5100 V/UHF D-STAR Dual Band
- Icom ID-1 1.2 GHz D-STAR DD/DV
- Yaesu FTM-400 V/UHF System Fusion Dual Band
- Yaesu FT-857D U/V/HF SSB
- (2) Icom ID-31 D-STAR handheld
- (2) Yaesu FT-1DR System Fusion handheld
- Kantronics KPC-3+ Packet TNC
- (2) Laptop computers



World Meeting of Families - Continued on page 13

The PODs were powered by electric plug-in, generators, back-up batteries and solar panels. The antennas were connected to the top portion of the POD. Each included charging stations for both the radios and mobile phones.

Although the initial audience estimate was 4.5 million persons, the attendance was more like 860,000. Even with the difference, the stations were up and running and ready for any emergency. For the MCC AUXCOMM, it was an excellent opportunity to get the PODs deployed, the equipment checked and practice our disaster/event training.

Location of Amateur Stations

- **MCC: The Medical Coordination Center.**
- **SMED: Medical Treatment Tent – Roosevelt Park near 5th and Federal IFO City Hall**
- **Aid 1: Medical Aid Station – Cooper and Front Street**
- **Aid 2: Medical Aid Station – Cooper and Broadway**
- **Aid 3: Medical Aid Station – Broadway and Federal Street**
- **Aid 4: Medical Aid Station – Ben Franklin Bridge**



Sources

www.nj.gov/health/ems/
www.wikipedia.org

Life Membership Opportunity

By Jim Wright, N2GXJ

Did you know that there is an opportunity to apply for life membership in the Gloucester County Amateur Radio club?

To do so is actually rather simple. A member in good standing, who holds a valid amateur radio license, may apply to the Board of Directors for Life Membership. You can apply in person, or via written petition.

So, what does it cost? If approved, the candidate shall pay dues equal to twenty times the current “short rate” annual dues. With the current annual dues at \$20, the cost would be \$400. In many ways, it is like a donation to the club. Our constitution states that the dues may be paid in one lump sum, or in three equal payments within one year from the date of approval. Credit is not given for previous membership payments, and under no circumstances will payments for life membership be refundable.



Interested? Let me know before year’s end, and we’ll get started from there.

Regional Hamfest and Events

November 01, 2015 : Washington Amateur Communications WACOM 2015 Hamfest, Washington County Fairgrounds, 2151 North Main Street, Washington, PA. www.wacomarc.org

November 01, 2015 : Jersey Shore Amateur Radio Society Hamfest By The Shore, Riverwood Park, Riverwood Drive and Whitesville Road, Toms River, NJ. www.jsars.org

November 07, 2015 : New Jersey Antique Radio Club Fall Swap Meet, Parsippany PAL Building, 33 Baldwin Road, Parsippany, NJ. www.njarc.org

November 27, 2015 : Fair Lawn Emergency Service Auction, Fair Lawn Senior Center, 11-05 Gardiner Road, Fair Lawn, NJ. www.flres.net

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

**Finally, the answer to that age-old question,
“How many people does it take to change a light bulb?”**



Photo Credit : Citlalli Rico

QST de W1AW
ARRL Bulletin 30 ARLB030
From ARRL Headquarters
Newington CT October 14, 2015
To all radio amateurs

SB QST ARL ARLB030
ARRL030 ARRL Asks FCC to Clarify that Hams May Modify Non-Amateur Gear for Amateur Use

The ARRL has asked the FCC to make clear that Amateur Radio licensees may modify non-amateur equipment for use on Amateur Radio frequencies. Some hams have expressed concerns that recently proposed rules would inhibit post-sale modification of Wi-Fi equipment, now sometimes altered for use on Amateur Radio frequencies. The ARRL made its point in comments filed on October 8 on a Notice of Proposed Rule Making (NPRM) in ET Docket 15-170 and RM-11673. The proceeding mostly addresses proposed amendments to FCC rules regarding authorization of RF equipment.

"The Commission should clarify...that the ability of licensed radio amateurs to modify and adapt non-amateur equipment for use in the Amateur Service is beneficial, is permitted, and is not restricted by any rule of general applicability adopted in this proceeding," the League said in its comments. The ARRL said proposed rules requiring manufacturers to include security features to prevent network devices from being modified were "problematic," to the extent that they would preclude hams from adapting network equipment for ham radio applications.

"The Amateur Radio Service has a very long tradition of modification and adaptation of commercial communications equipment," the ARRL's comments pointed out. Amateur licensees should be permitted to modify any previously authorized equipment for use under Amateur Service rules, the League asserted. The proceeding attracted many comments regarding this aspect of the proceeding, although the proposed rules differ only slightly from the current rules.

The ARRL also urged the FCC not to apply any limitations proposed for Software Defined Radios to SDRs intended for use exclusively in the Amateur Radio Service, "as has been the policy for the past 10 years."

Equipment Authorization

The League also has called on the Commission not to combine the Declaration of Conformity (DoC) and Verification equipment authorization procedures into a single, self-approval program. The League said the proposal could lead to abuse by unscrupulous importers and manufacturers of unintentional emitters. Under the proposed rules, the FCC would do away with its DoC authorization program by combining it with equipment Verification to form a so-called "Suppliers Declaration of Conformity" category of equipment authorization. Testing in an accredited laboratory would not be required, nor would database registration or third-party review. The ARRL expressed concerns that the new regime would encourage and facilitate the introduction into the US of "non-compliant unintentional emitters" and offer no oversight.

The ARRL's comments said, "the only opportunity to preclude widespread sale and deployment of non-compliant RF devices, including unintentional emitters, is via the equipment authorization process." The League said hams and AM broadcasters have been victims of interference from such unintentional emitters as RF lighting ballasts "that routinely exceed the Commission's conducted emission limits." The

ARRL030 - Continued on page 16

ARRL said the solution is "not to loosen but to tighten the procedural controls over the testing and affirmative confirmations of compliance" to ensure greater compliance in conducted limits and other technical parameters that determine how much such devices contribute to ambient noise levels.

The League said some RF devices, such as RF "grow lights," now subject to the more informal Verification process should be subject to Certification, owing to their substantial interference potential. The ARRL noted that it has received and investigated "numerous reports of interference" from devices subject only to Verification. "A number of interfering devices, when tested by the ARRL Laboratory, have been found to exceed the FCC limits, sometimes by an alarming amount," the League said.

Improved Labeling for Part 15 and Part 18 Devices

The ARRL also said there is "an urgent need" for improved labeling requirements for certain Part 15 and Part 18 devices. "Necessitating change, notably, is the fact that there are many industrial Part 18 devices sold that are neither intended nor designed for use in residential environments, but because there is no external labeling...the end user consumer is left without guidance," the ARRL said, noting that, in most cases, equipment retailers are not providing any either.

In July, the ARRL complained to the FCC about the marketing practices of various "big box" retailers, where non-consumer-rated lighting ballasts have been mixed in with consumer ballasts and other consumer products on display with no explanatory signage. Ballasts intended for industrial applications have higher permitted conducted emission limits in the Amateur Radio HF spectrum. The League called on the FCC to include a definition in Part 18 for the term "consumer RF lighting device," to provide a way to differentiate consumer devices from those intended for industrial or commercial environments.

The League also said the FCC should consider reducing its Part 15 limits for lighting devices to correspond with the Part 18 lighting device limits between 3 and 30 MHz to reduce the RFI potential of LED bulbs now being widely marketed, "before they become an aggregate problem." LED lamps operate under Part 15 rules.

The ARRL said the FCC should adopt the League's new equipment-labeling proposals with respect to certain Part 15 and Part 18 equipment "in order to stop the flood of such devices intended for commercial or industrial areas only into residential areas."

Article Credit : The American Radio Relay League - www.arrl.org



November 3, 2015



Happy Thanksgiving - November 26, 2015

DA's and DIT's

Gary Reed, N2QEE, reports that the October 8th VE session had two candidates, resulting in two new Technician Class operators.

Makerspace is coming to South Jersey : http://www.nj.com/cumberland/index.ssf/2015/10/south_jerseys_first_makerspace_opens_in_bridgeton.html

Ray Martin, W2RM, reports that the Milt Goldman Award Committee met on October 10, 2015 and a recipient was selected. The lucky person will be awarded the plaque at the December 2, 2015 General Membership Meeting.

Michael Covalski, KD2FJS, has changed his callsign. The new one is **N2MMC**.

Anthony Otlowski, KD2AFY, has changed his callsign. The new one is **W2WCC**. He also has been appointed the **Section Emergency Coordinator for the ARRL Southern New Jersey Section**.

Jennifer Robinson, KD2EYR, has been appointed the new ARRL Assistant Section Manager for Salem County.

Bill Szkromiuk, W4WCS, from South Carolina, reports:

"We survived fine, about 5.5 inches of rain over the 4 day storm weekend. We were very lucky in this part of SC. It was a constant rain but manageable. Some roads and bridges out in area. Our thoughts and prayers go out to those not so fortunate."

Happy 70th Birthday to Ray Martin, W2RM, and Howard Marder, WA2IBZ.

Skip Arey, N2EI, reports:

- Congressman Frank LoBiondo of the 2nd District in New Jersey has become a co-sponsor on H.R. 1301. Please take the time to phone his office at (800) 471-4450 or (609) 625-5008 or send an e-mail at www.lobiondo.house.gov to let him know that we noticed his support and appreciate it.
- Congressman Tom MacArthur of the 3rd District in New Jersey has become a co-sponsor on H.R. 1301. Please take the time to phone his office at (856) 267-5182 or (732) 569-6495 or send an e-mail at www.macarthur.house.gov to let him know that we noticed his support and appreciate it.
- It is with sadness that I inform you all of the passing of KA2CBC, Howard Harris. Howard was a driving force in the Cape May County Amateur Radio Club for years. Memorial donations may be sent to the Belleplaine Emergency Ambulance Corps, 167 Broad Street or the Belleplaine VFW 556 Woodbine Avenue, Belleplaine, NJ. To email condolences and or tributes please visit www.hoffmanfuneralhomes.net.



**2015
ARKANSAS
QSO PARTY**

*Out-of-State
Top Ten*

This certificate of merit is awarded to
Kenneth Newman – N2CQ
New Jersey Champion

QSOs: 89
Multipliers: 39
Score: 8,391

Don Banta – K5DB
AQP Chair

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Sunday, November 1, 2015 @ 0200



Happy 240th Birthday - November 10, 1775

**California QSO Party
October 03, 2015**

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

Class: SO(A) Fixed HP
QTH: NJ
Operating Time (hrs): 14
Location: Out of State/Province

Summary: Compare Scores
Band CW Qs Ph Qs

160:	1	0
80:	21	18
40:	35	8
20:	100	127
15:	62	50
10:	19	9
6:	0	0
2:	0	0

Total: 238 212 Mults: 58
Total Score: 66,004

Club: Frankford Radio Club

Comments:

**Texas QSO Party
September 26, 2015**

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

Class: SO CW LP
QTH: SNJ
Operating Time (hrs): 9
Location: Out of State/Province

Summary: Compare Scores
Band CW Qs Ph Qs Dig Qs

40:	14	0	0
20:	88	0	0
15:	14	0	0

Total: 116 0 0 Mults: 81
Total Score: 33,188

Club: Frankford Radio Club

Comments:
Great Mobile OPS!
Bonus: 5000

W3DYA	5 Counties	500 Points
W0BH	8	500
N5NA	6	500
K5GQ	6	500
K5YAA	6	500
N4CD	5	500
NO5W	10	1000
W5CT	10	1000

**CQ Worldwide DX Contest, RTTY
September 26, 2015**

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

Class: SOAB(A) HP
QTH: NJ
Operating Time (hrs): 15:55
Location: USA

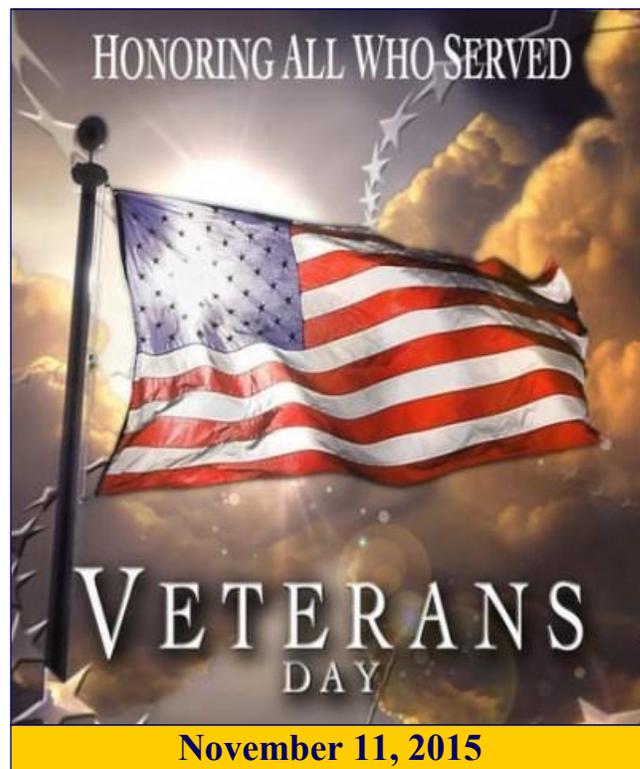
Summary: Compare Scores
Band QSOs State/Prov DX Zones

80:	63	26	9	7
40:	123	16	52	14
20:	97	7	77	25
15:	112	6	80	24
10:	4	1	4	3

Total: 399 56 222 73
Total Score: 342,576

Club: Frankford Radio Club

Comments: *Had a blast making enough QSOs to finish up my digital and 15M single band DXCC. Made 64 digital ATNOs. Special thanks to W2YC for letting me use his station #1 for this year's effort.*



When the water is gone

By Jim Wright, N2GXJ

On a recent trip to California, I had the occasion to visit Santa Barbara. It's a very well to do town with a serious problem – they are running out of water. Being from the East Coast, I'd heard about California problems, like the drought, but really had no appreciation for what that really meant until we took a trip up into the mountains above the city.

In the mountains above the city is the Bradbury Dam, which forms Lake Cachuma. Built in 1953, the dam stands over 200 feet tall – a massive Earth and rock and concrete structure by any measure. What struck me as odd was that I could see the bleach line on the dam and rocks where the water had once been, what was left of the lake wasn't even touching the dam anymore. And on closer look, I could see where one of the spillway gates was open and a temporary pipe had been installed, presumably to go all the way down to where the water still was so that it could be pumped to the other side of the dam. Amazing!

Talking with a local, he said they might be less than two years from running out of water if they don't get rain, but they are expecting some rain this winter, which should help. And then he told me about another asset that is being taken out of mothballs – a desalination plant that had originally been built during the drought from 1987 to 1992, but that had never produced any output before being shut down, due to the "March Miracle" rain of 1992, which officially ended that drought.

Curious, I did some Google searches and landed on an article from the Washington Post. In the article, they described that it might cost \$50 million to restart, and \$5 million a year to run. There is controversy, not only because of the cost, but also because there are important fisheries in the area, and the process of converting sea water to drinkable water results in a salty brine run-off which could have a negative impact on marine habitats and the local environment. Still, as the drought continues, drastic measures are being taken to serve more populated areas too. For example, San Diego, with a population of over 1.3 million people, is nearing completion of a new desalination plant that will be the largest in the Western Hemisphere. Cost? About \$1 billion dollars. So, how much would you be willing to pay for a glass of water at a restaurant? Something for me to think about in a few months, here on the East Coast, when inevitably I'm out trying to shovel a foot of new fallen snow from my driveway. Odds are that just about then I'd be happy to pay big bucks for the glass of water under one condition. And that condition is that I am drinking it in Southern California!



Clubhouse Update

On Tuesday, October 13, 2015, there was a Clubhouse Work Party organized by Bill Price, NJ2S, and Ray Martin, W2RM. The main task was to secure the clubhouse for the cold weather.

Here is the wish list for the Winter:

- Check the roof and seal all vents with tar.
- Check all siding.
- AC units weather shield.
- Check all windows.
- Weather proof steps.
- Secure trailer skirting.
- Check water pipe and heat tape.
- Check trailer piers and hold down straps.
- Mouse proof and bait on piers under trailer.
- Check existing heaters.
- Check shed for winter inside and out.
- Clean up shed storage.
- Check out shed electrical system.
- Check antennas and grounding.
- Check towers and tower base.
- Crank up tower lube and check cable.



Items that were worked on:

- Clubhouse roof checked out, caulked, and sealed.
- Heat tape for water system connected.
- Insulated the water entrance.
- Well shutoff pit sealed.
- Skirting installed at the water entrance.
- AC covers installed.
- Electric now works in the shed.
- New electrical breaker for shed.
- New electrical breaker for the heat tape.
- Windows are OK.
- Loose coax cable on crank-up tower was secured to tower.
- Mice food was put in and under the trailer, and in the shed.

Many thanks to the following who helped:

- **Bill Price, NJ2S**
- **Ray Martin, W2RM**
- **Sheldon Parker, K2MEN**
- **Mark Gottlieb, WA2DIY**
- **Jeff Garth, KC2WCS**

Also completed at previous date:

The junk that was piled up on the right side of the shed is cleaned up. The antenna parts have been piled up on the left side of the shed. The old siding and skirting was piled up and will be removed at a later date.

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	W2HRW/SPARC	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	K3RJC/HARC	444.900 MHz	Plus	131.8 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
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
Mercer County, NJ	Lawrenceville	W2MER	147.105 MHz	Plus	123.0 Hz
Mercer County, NJ	West Trenton	W2ZQ/DVRA	146.670 MHz	Minus	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	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	Paoli	WB3JOE/MARC	445.675 MHz	Minus	131.8 Hz
Delaware County, PA	Lawrence Park	W3DI	447.375 MHz	Minus	100.0 Hz
Lancaster County, PA	Buck	KX3B	146.745 MHz	Minus	114.8 Hz
Lancaster County, PA	Cornwall	W3AD/LRTS	449.025 MHz	Minus	162.2 Hz
Lancaster County, PA	New Holland	N3FYI	449.275 MHz	Minus	114.8 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
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
**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	Selbyville	WS3ARA/SARA	147.015 MHz	Plus	156.7 Hz

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

***As of October 14, 2015: Repeater in testing mode.*

November Birthdays

Congratulations to our members celebrating their birthday this month

Clinton Beckett WB3EHB
Fr. Brian Burgess KD4UTL
Robert Durham W2RAD
Robert Fields KC6AOH
Robert Harrison WA3KOL
Theodore Kiefer N2EBB
Ernest Kraus KD2EAV
Charles Lanard KD2EIB
Howard Marder WA2IBZ
Raymond Martin W2RM (President 1979)
Anthony Otlowski W2WCC
Cory Sickles WA3UVV (President 1993)
Martin Wilt W2ILT



In Memoriam November Birthdays

Silent Keys:

Henry Basch N2DJN
Peter Butler WB2B
John Fisher K2JF (President 1988)
Ernest Garside WA2TDI
Russel Glans N2ASV (President 1983)
George Hankins N2CFW
Frank King WA2WGA
Eleanor Mattison N2JXS
James McDonald N2AIV



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 December 2015 issue: Friday, November 20, 2015

Club Website www.w2mmd.org

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

November Contest Calendar

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

November 2015

+ High Speed Club CW Contest	0900Z-1100Z, Nov 1 and 1500Z-1700Z, Nov 1
+ ARS Spartan Sprint	0100Z-0300Z, Nov 3
+ QRP Fox Hunt	0100Z-0230Z, Nov 4
+ Phone Fray	0230Z-0300Z, Nov 4
+ CWops Mini-CWT Test	1300Z-1400Z, Nov 4 and 1900Z-2000Z, Nov 4 and 0300Z-0400Z, Nov 5
+ UKEICC 80m Contest	2000Z-2100Z, Nov 4
+ NRAU 10m Activity Contest	1800Z-1900Z, Nov 5 (CW) and 1900Z-2000Z, Nov 5 (SSB) and 2000Z-2100Z, Nov 5 (FM) and 2100Z-2200Z, Nov 5 (Dig)
+ QRP Fox Hunt	0100Z-0230Z, Nov 6
+ NCCC RTTY Sprint	0145Z-0215Z, Nov 6
+ NCCC Sprint	0230Z-0300Z, Nov 6
+ IPARC Contest, CW	0600Z-1000Z, Nov 7 and 1400Z-1800Z, Nov 7
+ SKCC Weekend Sprintathon	1200Z, Nov 7 to 2400Z, Nov 8
+ Ukrainian DX Contest	1200Z, Nov 7 to 1200Z, Nov 8
+ NA Collegiate ARC Championship, CW	2100Z, Nov 7 to 0300Z, Nov 9
+ ARRL Sweepstakes Contest, CW	2100Z, Nov 7 to 0300Z, Nov 9
+ IPARC Contest, SSB	0600Z-1000Z, Nov 8 and 1400Z-1800Z, Nov 8
+ EANET Sprint	0800Z-1200Z, Nov 8
+ DARC 10-Meter Digital Contest	1100Z-1700Z, Nov 8
+ QRP Fox Hunt	0100Z-0230Z, Nov 11
+ Phone Fray	0230Z-0300Z, Nov 11
+ CWops Mini-CWT Test	1300Z-1400Z, Nov 11 and 1900Z-2000Z, Nov 11 and 0300Z-0400Z, Nov 12
+ RSGB 80m Club Sprint, SSB	2000Z-2100Z, Nov 11
+ NCCC RTTY Sprint	0145Z-0215Z, Nov 13
+ QRP Fox Hunt	0200Z-0330Z, Nov 13
+ NCCC Sprint	0230Z-0300Z, Nov 13
+ WAE DX Contest, RTTY	0000Z, Nov 14 to 2359Z, Nov 15
+ 10-10 Int. Fall Contest, Digital	0001Z, Nov 14 to 2359Z, Nov 15
+ JIDX Phone Contest	0700Z, Nov 14 to 1300Z, Nov 15
+ OK/OM DX Contest, CW	1200Z, Nov 14 to 1200Z, Nov 15
+ Kentucky QSO Party	1400Z, Nov 14 to 0200Z, Nov 15
+ CQ-WE Contest	1900Z-2300Z, Nov 14 (CW/Digital) and 0100Z-0500Z, Nov 15 (Phone) and 1900Z-2300Z, Nov 15 (Phone) and 0100Z-0500Z, Nov 16 (CW/Digital)

November Contest Calendar - Continued on page 25

November Contest Calendar

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

November Contest Calendar - Continued from page 24

+ Homebrew and Oldtime Equipment Party	1300-1500Z, Nov 15 (40m) and 1500-1700Z, Nov 15 (80m)
+ Run for the Bacon QRP Contest	0200Z-0400Z, Nov 16
+ QRP Fox Hunt	0100Z-0230Z, Nov 18
+ Phone Fray	0230Z-0300Z, Nov 18
+ CWops Mini-CWT Test	1300Z-1400Z, Nov 18 and 1900Z-2000Z, Nov 18 and 0300Z-0400Z, Nov 19
+ NAQCC CW Sprint	0130Z-0330Z, Nov 19
+ NCCC RTTY Sprint	0145Z-0215Z, Nov 20
+ QRP Fox Hunt	0200Z-0330Z, Nov 20
+ NCCC Sprint	0230Z-0300Z, Nov 20
+ YO International PSK31 Contest	1600Z-2200Z, Nov 20
+ SARL Field Day Contest	1000Z, Nov 21 to 1000Z, Nov 22
+ LZ DX Contest	1200Z, Nov 21 to 1200Z, Nov 22
+ All Austrian 160-Meter Contest	1600Z, Nov 21 to 0700Z, Nov 22
+ Feld Hell Sprint	1700Z-1859Z, Nov 21
+ NA Collegiate ARC Championship, SSB	2100Z, Nov 21 to 0300Z, Nov 23
+ RSGB 2nd 1.8 MHz Contest, CW	2100Z, Nov 21 to 0100Z, Nov 22
+ ARRL Sweepstakes Contest, SSB	2100Z, Nov 21 to 0300Z, Nov 23
+ SKCC Sprint	0000Z-0200Z, Nov 25
+ Phone Fray	0230Z-0300Z, Nov 25
+ CWops Mini-CWT Test	1300Z-1400Z, Nov 25 and 1900Z-2000Z, Nov 25 and 0300Z-0400Z, Nov 26
+ UKEICC 80m Contest	2000Z-2100Z, Nov 25
+ RSGB 80m Club Sprint, CW	2000Z-2100Z, Nov 26
+ NCCC RTTY Sprint	0145Z-0215Z, Nov 27
+ NCCC Sprint	0230Z-0300Z, Nov 27
+ ARRL EME Contest	0000Z, Nov 28 to 2359Z, Nov 29
+ CQ Worldwide DX Contest, CW	0000Z, Nov 28 to 2400Z, Nov 29



www.facebook.com/W2MMD

w2mmd.org



Facebook Page



Committee Chairs

ARES/RACES	Ed Champion, N2RO
Awards and Contests	Kenny Denson, WB2P
Budget*	Al Arrison, KB2AYU
Club Publications	Jeffrey Garth, KC2WCS
<ul style="list-style-type: none"> • Crosstalk Magazine • Website 	
Clubhouse Site/Operations*	Al Arrison, KB2AYU
Constitution and By-Laws*	Ron Block, NR2B
DX	Bill Grim, W0MHK
Field Day*	Kenny Denson, WB2P
Fox Hunts	Jim Wright, N2GXJ
Hamfest*	Sheldon Parker, K2MEN and Bill Price, NJ2S
<ul style="list-style-type: none"> • Hamfest Contact 	Cory Sickles, WA3UVV
Health and Welfare*	Ray Martin, W2RM
Historian	Jeffrey Garth, KC2WCS
Hospitality*	Dave MacDonald, WB3JOY
License Testing, VEC Liaison	Gary Reed, N2QEE
License Trustee	Darrell Neron, AB2E
Member Database	Ken Newman, N2CQ
Membership*	Cory Sickles, WA3UVV
Nominations*	Jim Wright, N2GXJ
Programs	Cory Sickles, WA3UVV
Publicity*	Cory Sickles, WA3UVV
Repeaters*	Cory Sickles, WA3UVV
Scout Liaison	Frank Simila, KC2SJ
Summer Picnic	Jennifer Robinson, KD2EYR
Technical and TVI	Chuck Colabrese, WA2TML

** Denotes Standing Committees*

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

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
(Temporarily Conventional FM)

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°

Gloucester City Amateur Radio Club Monthly Meeting

November 11, 2015 @ 1930 Hours

**Gloucester City Fire House
1 North King Street
Gloucester City, NJ
www.nj2gc.org**

Meeting Calendar

General Membership Meeting

Wednesday, November 4, 2015 @ 1930 Hours
Pfeiffer Community Center
301 Blue Bell Road
(Main Street and Blue Bell Road)
Williamstown, NJ

Board of Directors Meeting

Wednesday, November 18, 2015 @ 1900 Hours
GCARC Clubhouse
Gloucester County 4-H Fairgrounds
235 Bridgeton Pike (Rt 77), Mullica Hill, NJ

November Club Meeting Program

Antenna Modeling Program

Area Repeater Nets

SKYWARN™ Net
Sunday @ 1945: 147.180 MHz

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

November 1, 2015

FALL BACK

**End of Daylight
Saving Time**

Turn clocks
back one hour
at 2 a.m.

