

CROSSTALK

Volume 55

Issue #09

Celebrating Our 55th Year

September 2014



President's Message



Our 36th Annual Hamfest is Sunday September 14, 2014 at the 4-H Fairgrounds in Mullica Hill, NJ. Spread the word! It's a great event, some might even say a tradition now, for hams from all over the tri-state area to get together with us at this event, to catch up with old friends, and maybe meet a few new ones too.

If you're already a ham, and are reading this, maybe there's a few items you no longer need that you think a new ham might like when getting started that you'd like to part with for a few bucks? You know those new to the hobby would be thankful! Maybe you'd like to pick up a few bargains on things that you need at the same time? You never know. Come and stay as long as you like! The Boy Scouts from Troop 9 will be offering coffee and fairly priced food items again this year. This is the same Boy Scout troop that camped out with us and participated in our Field Day this year. Please support them while they support our event. More details, and a flyer, are available on our web site www.w2mmd.org.

And speaking of fun events, we were proud to have GCARC represented in the ARRL's Centennial Celebration when we operated W1AW/2 New Jersey from our new clubhouse! You can read more about that later in this edition of your Crosstalk newsletter.

Special thanks to our guest speaker Ray Golley, N3RG, for the outstanding program on building your own VHF/UHF antennas at our August club meeting, and for VP Cory, who filled in for me. I'm looking forward to the program at our September meeting where club member Dan, N2TXG, will be introducing us to these miracle little Software Defined Radio receivers made from inexpensive European TV tuner USB sticks. Hum, I wonder if someone creative out there might find this an interesting combo for our next Fox Hunt activity?

Enjoy your Labor Day weekend. I look forward to seeing you at the Wednesday, September 3 club meeting!

Respectfully, Jim Wright, N2GXJ

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DX possibilities for September look much better than for the previous three months. The Pacific should offer you best chances to pick up a "new one" so watch your band times and beam headings for that area of the world with the following list:

CALL	DATES	HIGHLIGHTS	DIFFICULTY (5=MOST RARE)	ENTITY
TX4A	09/01 - 09/09	40-10M/CW, SSB	3	New Caledonia/ FK
T8	09/02 - 09/09	80-6M/CW, SSB, Digital	3	Palau
3A	09/05 - 09/12	HF (Often Tough!)	2	Monaco
CY0	Aprx 09/08	HF - 2 Stations	1	Sable Island
ZL7X	09/11 - 09/16	160-6M/CW, SSB, Digital	3	Chatham Island
3D2AG/P	09/12 - 09/26	40-6M/Mainly CW	3	Rotuma
VK9AN	09/18 - 10/02	80-10M/CW, SSB, Digital	4	Christmas Island
A52YY	09/26 - 10/02	HF/Amplifier/FB OP	4	Bhutan
5V	09/27 - 10/06	160-10M/CW, SSB, Digital	2	Togo
C21GC	09/28 - 10/14	160-10M/CW, SSB, RTTY	3	Nauru

Credits : NG3K ADXO

The Ever Shrinking Receiver

By Cory Sickles, WA3UVV

This month, our featured speaker will be Dan Tremolini, N2TXG. Please join us and learn more about the ease of using inexpensive SDR Dongles. Dan has a summary of his interesting programs elsewhere in this month's Crosstalk.

Welcome New Club Members:

Patrick Guilfooy, AB2HM, who holds an Amateur Extra class license and lives in Woodbury Heights, NJ.
John Carroll, N2SVM, who holds an Amateur Extra class license and lives in Malaga, NJ.

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

Congratulations to the following members for upgrading their license :

- Jennifer Robinson, KD2EYR - General to Extra**
- Laurie Love, KD2EYW - Technician to General**
- Charles Emmel, KD2FYF - General to Extra**
- Andy Muenzenberger, KF2AQ - Advanced to Extra**
- Bill Robinson, KD2ANM - Technician to General**



Software Defined Radio USB Dongles - September 3, 2014 Program

By Daniel Tremolini, N2TXG

At September's meeting I will do a presentation on RTL-SDR USB dongles. The most widely cheapest one to get is the

RTL-SDR, FM+DAB, DVB-T USB Stick RTL2832U. It can be found on Amazon for as little as \$8.41 . It's a cheap Software Defined Radio receiver to tinker with on your pc. It covers the following frequency ranges:

Receiving frequencies:

- **DVBT: 48.25 ~863.25 MHz**
- **FM radio: 87.5~108 MHz**
- **DAB radio: L-Band-1452960~1490624 kHz**
- **Antenna with MCX male connector**
- **VHF-174928~ 239200 kHz**



There are great websites for available programs that are usable with this SDR and guides. The best site to start with is <http://www.rtl-sdr.com/>. The most used interface with it is **SDRSharp (SDR#)** <http://sdrsharp.com/>. Before installing any software you need to install the driver first. The driver is called **Zadig**: <http://zadig.akeo.ie/>. Here is the wiki link showing how to install the driver <http://rtlsdr.org/softwarewindows> . Once the driver is installed, it's a matter of choosing a program you want to use to listen to or decode certain digital modes it can receive. The usable program list is at this link: <http://www.rtl-sdr.com/big-list-rtl-sdr-supported-software/>.

There are some YouTube videos on setting up some of the programs in the list. At the meeting, I will show some of the how-to videos for programs I have installed on my laptop. You can connect a external antenna to the dongle by buying a MCX male adapter (pig-tail) connector of your choice to connect to the coax, also found on Amazon at around \$7. Just don't use too long of a coax to the external antenna.

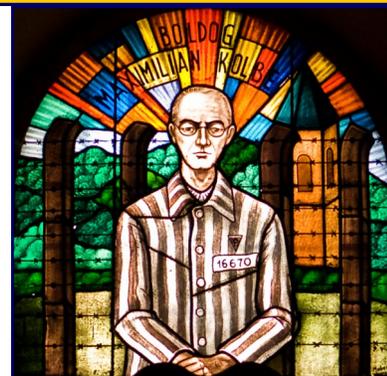
One of the programs I will show is **Automatic Dependent Surveillance – broadcast (ADS–B)** plane tracking software. It shows live tracking on a map. If I get other programs working right, I'll show them as well.

So anytime the band is dead or your bored, there are other radios to use that do interesting things.

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

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

Maximilian Kolbe, SP3RN Patron Saint of Amateur Radio Operators



QRZ, W1AW/2 New Jersey?

By Jim Wright, N2GXJ

The Gloucester County Amateur Radio Club had the distinct honor of representing the state of New Jersey during this, the ARRL's Centennial Celebration year. On Friday, August 8, and again on Saturday, August 9, W1AW/2 was on the air from our new clubhouse!

Using a combination of our club's multi-band HF beam antenna for 15 and 20 meters, and the new multi-band dipole for 40 meters, we made contacts with stations all over the United States and the world. Special thanks to CW ops Sheldon (K2MEN) and Merrill (WK2G), and sideband op Kenny (WB2P) for sharing time in the hot seat with me during the event.



Thank you to Carol (N2MM) for giving us at GCARC the opportunity to participate in this once in a hundred years event. As a "newbie", the thought of representing both the ARRL and NJ as a W1AW/2 station was a bit intimidating at first. As was seeing the list of participating NJ stations that had lined up for the event; which reads like a "who's who" of radio ops from the Garden State! Only now that the event is over am I reflecting nostalgically on how special it was to have been able to have this opportunity, along with my fellow club members, to operate from our new W2MMD clubhouse for this event; truly an atypical radio experience. Thank you again!



NTS Traffic Handling Class - September 18, 2014

Steve Bromhead, KB2RTZ, will teach a class on handling NTS traffic on Thursday, September 18, 2014 at 7:00pm at the American Red Cross building, 3 Parke Place Boulevard, Sewell, NJ. Advance registration is required. Interested people can contact Tony Otlowski, KD2AFY ([kd2afy <at> comcast <dot> net](mailto:kd2afy@comcast.net)) for information or to register.

New HF+ Transceiver from Yaesu

By Cory Sickles, WA3UVV

Yaesu is showing off (in Tokyo at least) the apparent replacement to the discontinued FT-897D. The FT-991 covers 160~6M, plus 2M and 70cm. Also, C4FM (System Fusion) is among the operating modes. When released in the States, it looks like we'll have a radio available that puts yet another digital mode on HF. (10M, anyway) With two VFO's, perhaps this will be a nice rig for satellite enthusiasts, too.



As the FT-857 is also discontinued (both radios used a part that can't be had any longer) perhaps the FT-951 (I took a guess) mobile with remote head will be appearing in the coming months. I'm thinking something like the FTM-400DR screen, with a big knob and a few extra buttons.

On operating at W2MMD as W1AW/2

By Jim Wright, N2GXJ

While in a reflecting nostalgic frame of mind, I'm looking back now on how much I really enjoyed operating out of our new clubhouse. If you don't mind reading on a bit with me, I'll share some of the highlights for me that made this a memorable experience.

First was having air conditioning we could turn on while we were in the HF room. Though it was summer hot outside, this simple donated wall unit sure made operating for us "a breeze". Thank you for the air conditioning!

Next was having a setup there that allowed you to bring and attach your own radio to the beam antenna at the site. Being able to bring your own radio means no lost time fumbling for controls that you're not used to. As for that beam antenna, I made quite a few contacts off the back side of the beam into the Carolinas while I was trying to beam to Europe. Front to back might not be that distinct on all bands, but that's probably over-rated for an event like this, compared to gain. It does have gain. When a guy from Iowa called me, and I swung the antenna from Europe to point towards him, he even asked me if I'd swung the beam because my signal had gone up over 6 s-units for him. I'm not used to having that ability, given the dipole I normally use in the attic of my house. It's great to have a clubhouse like this to operate from!

Another memorable part of the experience was when a father and his two sons stopped in. They were driving by from an event being held by the 4-H, saw the antenna moving, and stopped in to see what was going on. Merrill and I talked with them a bit, gave a tour, demo'd what HF could do by responding to a CQ from the Ukraine, and let them talk on an HT from the front porch via our Pitman repeater. They seemed to enjoy the visit. Perhaps we'll see them again someday?

As for operating with the W1AW/2 callsign, some operators were noticeably very excited to be able to make the contact with us. The first caller found me even before we went on the spotting network. He was F8DRA in France. I tried to speak a little French with him, which he enjoyed too. "Merci beaucoup" to my first contact!

Then there was the guy who got through to me with just 10 watts sideband while backpack camping in Europe. I know I was supposed to keep it going, but couldn't resist stalling the pile up to have a brief congratulatory chat with that one. I think he was as giddy as I was for making that contact!

There were other memorable contacts too. Even with everything going on in his part of the world, station 4X4JU called and made contact with me from Israel. KL7TS in Anchorage, Alaska, who was enjoying the extended summer sunshine, made a contact. And there were a hundred others like that in the first hour. The contact that really surprised me was when I first switched to 15 meters. I put out a W1AW/2 spot, called CQ, and the first to respond was E21LXK from Bangkok, Thailand! I'd never had a QSO with anyone in Thailand before! Unfortunately for me he was gone before I could call him back with my own callsign. Drats! Maybe next time!

Probably the most satisfying contact for all of us was when we were able to complete a scheduled contact with station W4WCS in South Carolina from our new clubhouse. Yes, W4WCS! Recognize that call? That's club member Bill Szkromiuk (formerly N2VIL), who is now living in Aiken, SC! Turns out he worked hard for this one, telling me he put up a vertical (between thunderstorms) with ground radials pointing up this way all in the hopes of making this one contact. And he did! Way to go Bill! Fantastic! You're in the log!

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Before long, it was time for my shift to end, and Kenny WB2P took over. Wouldn't you know it, but the first station to answer him was club member Dave W2YC. It seems Dave was just waiting to pounce on Kenny with a friendly jab as soon as he took to the air. We all had a good laugh after that one, thanks Dave!

Now that it's over, I'll be on the lookout for more W1AW stations to make contact with each week. From the ARRL bulletin, I see that W1AW/KH0 will be operating portable from the Northern Mariana Islands in the Pacific October 8 – 21. In November, W1AW/KH8 is scheduled to operate from American Samoa. Those would be trophies for the log!

With over 20,000 combined QSOs during the week for W1AW/2, even under supposedly "poor" conditions, the New Jersey operations were quite successful. Though my contributions to that total were relatively small, I was proud to be part of the W2MMD team and part of this successful NJ operation. Isn't it amazing, this HF thing, even in supposedly "poor" conditions? One thing's for sure, I'll be looking for excuses to stop by the clubhouse to borrow that beam antenna more often. As a fellow club member reading this, maybe you'll be encouraged to do the same too!



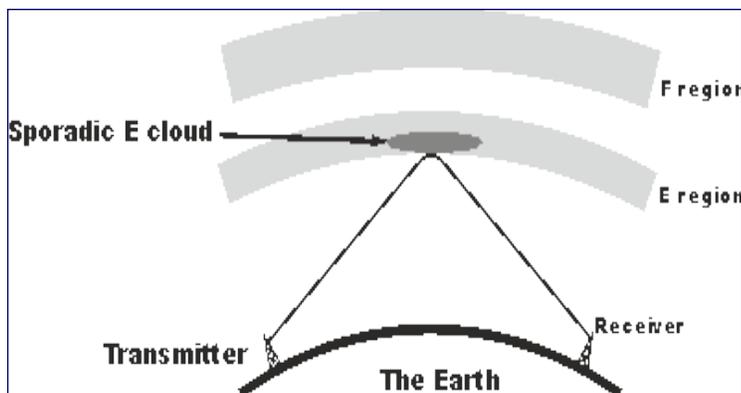
You worked *where* on 2 meters?

By Al Arrison, KB2AYU

A lot of Hams, especially newcomers, think working 2 meters consists of using FM to talk on Repeaters or Simplex to guys a few towns away. Well, that isn't the only thing that can be done on the band. By using SSB, CW, and Digital modes along with a Yagi (beam) antenna, one can work stations hundreds of miles distant using several different propagation modes.

This past May and June I was lucky enough to catch a couple of rare "Sporadic E" openings on 2 meters. I worked several stations on SSB in Iowa, Kansas, and Oklahoma at roughly 1200 miles distance. My call-sign is mentioned in the August and September QST magazine "The World Above 50 Mhz" column.

The propagation mode "Sporadic E" is fairly common at upper HF frequencies, a bit less at 6 meters and very rare at 2 meters and above. It supports contacts out to about 1200 miles and consists of ionized "clouds" at a height of around 100 km in the "E" layer of the ionosphere. These clouds vary in ionic density; the denser the cloud, the higher the frequency they can reflect back to earth. The clouds drift over time such that stations that are in the opening one moment may not be the next. It is called "Sporadic" because nobody has been able to figure out how to predict when and where an opening will occur. There are certain times of year and certain times of day when it is more likely to occur but these are just generalizations.



You do not need big antennas or big power to work "Sporadic E" openings. If you work 10 meters, most of your contacts on that band are via "Sporadic E" or multi-hop "Sporadic E". On the higher bands it becomes a matter of being in the right place at the right time.



Another Digital Voice Update

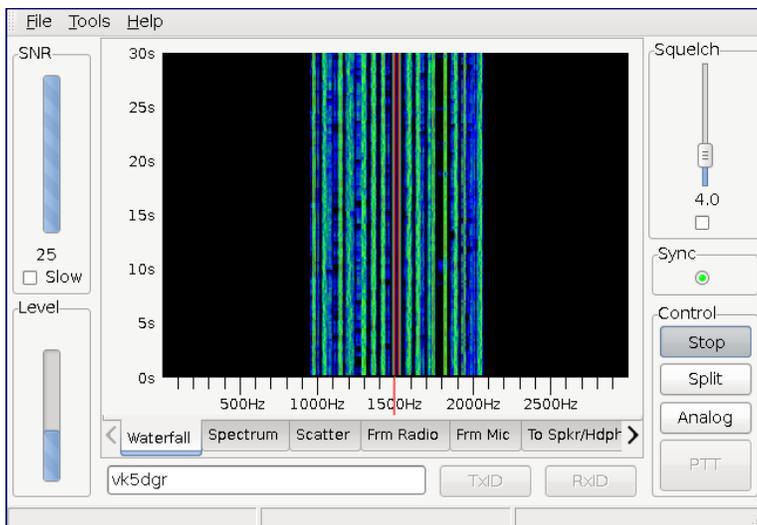
By Cory Sickles, WA3UVV

If you remember how FM repeaters, Packet Radio and PSK31 seemed to excite ham radio and cause a flurry of interest – then all the fuss about digital voice radios may seem somewhat familiar to you. Just as hams initially embraced “surplus” technologies and made them our own, many such trends have become commonplace staples of the ways we communicate.

While much has been said, written and done relating to digital voice on VHF and UHF, what about HF? Well, digital voice can be found there, too. Rigs like ICOM’s IC-9100 and IC-7100 give their owners the ability to experiment with D-STAR and there are some regularly-scheduled nets and roundtables. It’s an interesting experience to be on HF without background noise, although QSB can create more “R2D2” as conditions degrade.

D-STAR represents the only methodology that takes an “in the radio” approach. However, there are some other “products” that work externally.

AOR has been marketing an outboard device – the 9000 – to handle the analog to digital and back again coding that allows any HF rig to operate digitally. This methodology is different than D-STAR (of course, right?) There are also a group of experimenters supporting this form of digital voice. The modems sell for about \$400.



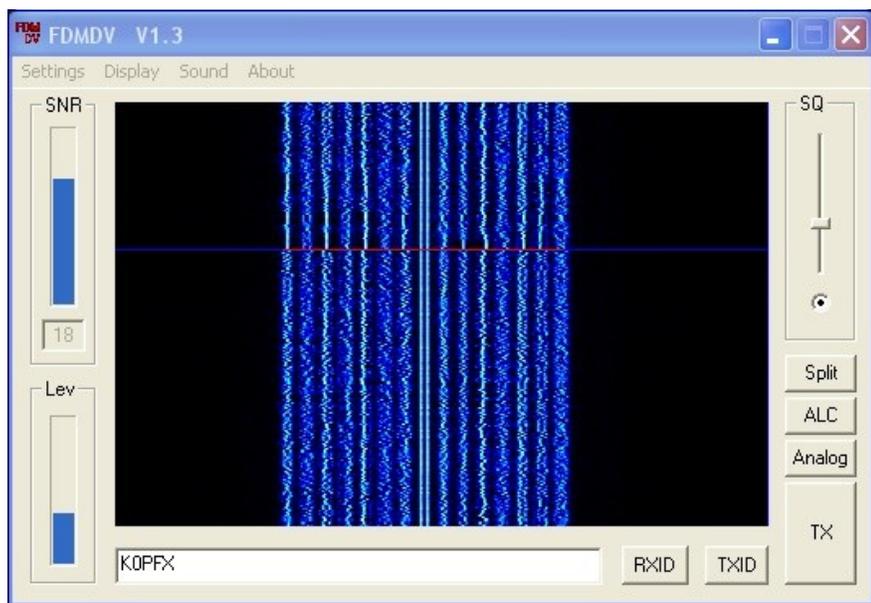
If you like the idea of “free”, then perhaps FreeDV is for you. This open source software uses the sound card (s) on your computer (Windows, Linux, MAC OS) to act as the vocoder, with a result that only requires 1.25KHz of bandwidth. That’s pretty impressive, all things considered. The developers are working on versions for Android and other platforms, as well. Attesting to the experimental nature of FreeDV, the latest version on their web site (at the time of writing this) is 0.96.6 – thus they’re not actually up to version 1, quite yet.

Still - for the price – it’s hard to argue against experimenting with it. The efforts involve an enthusiastic bunch. I got to talk with some of them at the ARRL Centennial Convention. The design parameters and ways they approach different challenges are unique. As they’ve opened development up to anyone interested that has the knowledge base to refine and enhance the application, I expect we’ll see some significant developments in the near future.

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For mobile operation, it's a bit unwieldy to talk through a laptop while driving, but if someone wants to work with the Raspberry Pi SBC to pull it off, that's getting closer to an "in the box" solution. For safety's sake, that could require a lot less "eyes on" time, as well.



If this didn't represent enough choices, there's also FDMDV – Frequency Division Multiplex Digital Voice. It's somewhat similar to WinDRM. (another thing you may never have heard of) With a bandwidth of just 1.125KHz (how low can you go?) it's very spectrum-efficient, while still providing a decent-quality signal.

This brings up the subject of how digital voice allows us to do things in a space we'd never be able to accomplish with analog. There are some tradeoffs, of course, not the least of which being that some of these require a little "sync up" time at the beginning of each transmission. You soon learn not to start talking as soon as you've pressed the PTT button. Also, because digital represents a 100% duty cycle, backing off the power as you would with RTTY, is highly recommended.

So now if you hear some digital/data signals in the midst of the phone sub-bands, you may have a better idea of what's going on. For the price of some of these (did I mention "free"?), a few minutes of making up a set of cables can reward you with some new horizons – just as amateur radio transitioned from AM to SSB.

For more information, please visit:

<http://www.icomamerica.com>

<http://www.hamuniverse.com/aorard9000.html>

<http://freedv.org/tiki-index.php>

<http://n1su.com/fdmdv/>

Boy Scout Troup 9 Update

By Jim Wright, N2GXJ

As many of you know, the Boy Scouts of Troup 9 from West Deptford here in Gloucester County, NJ camped out with us, operated a GOTA station, tried to make satellite QSOs, and hunted hidden transmitters with us during Field Day this year. Apparently this "ham radio" thing was a big hit with the boys. Scout leader, GCARC club member, and our club's Scout Liaison, Frank Simila (KC2SJ), says that Troop 9 has applied for, and now has its own call sign, **KD2GYQ**! Frank hints that he has requested a vanity call sign for the troop, but that is still being processed. Be sure to congratulate Frank, and the young men of Troop 9 when you see them next; which will be at our Hamfest on Sunday morning September 14!

Gloucester County Amateur Radio Club Field Day 2014 Results

Call Used :		W2MMD		Bonus Points		
GOTA Station :		KC2SJ		Description		Points
ARRL/RAC Section :		SNJ		100% Emergency Power		1,200
Class: :		12A		Media Publicity		100
Participants :		29		Set-up in Public Place		100
Club/Group Name :		A		Information Booth		100
Power Source (s) :		Generator, Battery, Solar		W1AW Field Day Message		100
Power Multiplier :		2X		Satellite QSO Completed		100
GOTA Bonus				Natural Power QSOs Completed		100
Name	Call	Phone QSOs	Phone Power	Site visit by invited served agency official		100
Frank Simila	KC2SJ	55	100	Youth Participation		100
QSO Score Summary				Youth Operators = 7		
	CW	Digital	Phone	Total	Youth Participants = 7	
Total QSOs	1,476	248	850		GOTA Bonus	
Total Points	2,952	496	850	4,298	Submitted Via The Web	
Claimed Score				8,596	Educational Activity	
Total Score :			10,826		Total Bonus Points	
(QSOs Score + Bonus Points)					2,230	

Band/Mode QSO Breakdown						
	CW QSOs	CW Power (watts)	Digital QSOs	Digital Power (watts)	Phone QSOs	Phone Power (watts)
160 Meters						
80 Meters	134	100			78	100
40 Meters	761	100	92	100	408	100
20 Meters	552	100	115	100	73	100
15 Meters	29	5	41	100	53	100
10 Meters					113	100
6 Meters					66	100
2 Meters					3	50
1.25 Meters						
Other						
Satellite					1	50

Member Growth and Retention

By Cory Sickles, WA3UVV

During his inaugural speech, John Kennedy uttered a now-famous phrase "...ask not what your country can do for you; ask what you can do for your country." I'm going to spin that idea around, a bit. We have a lot of people (thankfully) doing things for our club, but what do you want the club to do for you?

More to the point, what are you expecting out of your membership with GCARC? I ask this, because while we are doing a good job of growing and gaining new members, I had a recent revelation that we have lost more than a few over the years. Some have moved out of the area, lost focus on ham radio or become Silent Keys, but what of others that didn't renew their membership.

Was there something missing in their relationship with the club or interaction with other members? Were meeting programs not interesting enough or on topics that were of interest to them? Are the projects and social functions we involve ourselves in not what those individuals wanted or expected?

I may never know all of the reasons that someone doesn't continue to be part of the GCARC family, but I'd like to. Moreover, before someone becomes an former member, I'd like to know what they'd like to see or do in order to stay.

Again, the club is steadily growing and it's a rare month that we don't welcome new members – along with visitors that become members. It's just that without the attrition, we could be a lot closer to having 200 on the roster.

McDonalds has grown their business on the concept of satisfying the customer. You go to MickyD's with a certain expectation. They meet that expectation and you're satisfied. As such, you continue to be a McDonalds customer. It's not because they're everything to everyone, but because you got what you expected.

As a company, they are constantly fine-tuning the operation and determining what people want and what they don't. Since we usually don't want less from a club, what more would you like? More contests, more digital, more socialization, more volunteering, more cowbell?

Whatever it is, please let us know. At every meeting, we have a suggestion box in the back, where folks sign in. We have an email address, posted on our web site, that encourages questions and requests for help. No one person in the club can answer all of your questions, but with as many members as we have – and the general interest nature of our organization – there has to be someone who can.

If you never express your needs or expectations to those who can address them, then we might not meet them. If you do, then we have a chance. It can make your member experience a better one and probably, that of others as well.

There is an excellent two way radio tutorial on **The Antenna Farm** website called "**Two Way 101**". The article is too long for this publication, so here is a link to the website :

https://www.theantennafarm.com/catalog/index.php?main_page=radio_tutorial.

This article was suggested by Tom Gorman, KE2ES.

W2MMD



Celebrating Our 55th Year

22 miles from Philadelphia, PA
28 miles from Wilmington, DE
67 miles from Dover, DE
77 miles from Reading, PA
81 miles from Allentown, PA
91 miles from Baltimore, MD
107 miles from New York City, NY
125 miles from Harrisburg, PA

South Jersey's Biggest Hamfest
Sunday, September 14, 2014

Hamfest 2014

Open to the public 8 am to 2 pm, rain or shine
Gates open at 6 am for tailgaters and sellers

GCARC 36th Annual Hamfest

*Tailgaters and sellers of new, used, antique radio,
computer, and electronic equipment*



ADMISSION: \$8.00

Non-Ham spouses and kids FREE

DXCC-VUCC-WAS Card checking 11:30 am



ARRL VEC License Testing

Testing begins at 9:00 am

Please bring a copy of your license and any CSEs

- ◆ Entry ticket is valid for door prize drawings, including a cooked ham and other prizes.
- ◆ Ticket holder must be present to win.
- ◆ Tailgaters \$7.00 per space *
- ◆ \$10.00 Pavilion tables or table space **
- ◆ Some pavilion spaces have electric
- ◆ Space price does not include admission
- ◆ **Talk-In Repeater : 147.180+ PL 131.8**



Win a "Ham" at a Hamfest



Gloucester County 4-H Fairgrounds

235 Bridgeton Pike (Route 77) • Mullica Hill, NJ 08062

GPS : 39.715572°, -75.211944°

* Tailgating rules (open grassy areas only) : \$7.00 per vehicle space, up to 10 feet. No reserving or holding spaces for tailgaters not yet present. *First come, first serve.*

** Table rules (covered pavilions only) : \$10.00 per table (yours or ours), or table space up to 8 feet. Tailgating under pavilions will fall under "Table Rules" rates.

Contact : Cory Sickles, WA3UVV at wa3uvv@arrl.net or (856)582-9146 • Club Website : w2mmd.org
GCARC, PO Box 370, Pitman, NJ 08071

Route 66 On-Air Special Event

By Jim Wright, N2GXJ

September brings to the radio waves the 2014 edition of the Historic Route 66 on the air special event! This popular week-long radio event kicks off Friday, September 5, 8pm local time. Spanning a distance of more than 2400 miles, each year between 17-20 stations set up all along the original route of the “Mother Road” operating under special “W6” 1x1 callsigns. Each offers their own commemorative QSL card for those able to make at least one confirmed contact. Check out W6P’s qrz.com web page, as an example of one station already gearing up for the event. From their write-up, W6P looks like they might also be active on D-STAR and EchoLink. It’s a fun event. Why not give it a try? <http://www.w6jbt.org/2013site/route-66-on-the-air/>

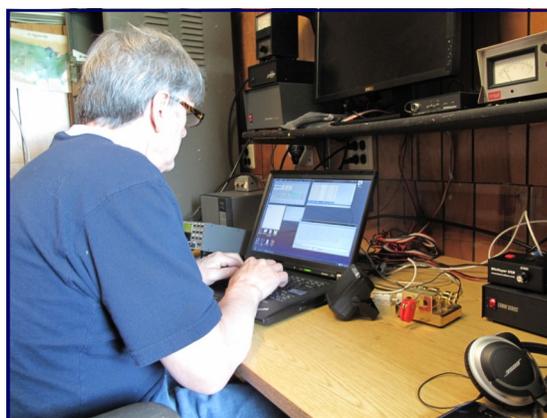


On operating at W2MMD as W1AW/2

By Merrill Brown, WK2G

I was happy to be a part of the W1AW/2 experience and hope that we were able to help someone to achieve an award for WAS/W1AW. I was working both DX and Stateside, which felt more like contest style operation. I think it’s a good idea to help motivate amateur radio World-wide. Not everyone likes contesting, but many like putting up new wallpaper. Good luck to everyone, and keep amateur radio alive.

Happy hunting. 73’s WK2G, Merrill



A lucky caller gets through on CW to Merrill Brown (WK2G) operating as W1AW/2 NJ from GCARC’s new clubhouse.

Fall Fox Hunt

By Jim Wright, N2GXJ

Ah, summer’s come to a close, and school’s starting up again. It’s time to start thinking about the fall fox hunt! For those who missed it, a Bionics MicroFox hidden transmitter made its debut in our club during an on-foot RDF activity conducted with the Boy Scouts during our Field Day this year. This 9V battery powered transmitter puts out a repeating low power Morse Code signal at programmable intervals that can be heard using a 2M hand-held receiver. Using signal strength to “home in” on the transmissions, this gizmo makes for a great on-foot fun radio fox to track down. As you can see from the Field Day pictures on our club web site, this activity was a big hit with the young men (and for us young-at-heart men as well).

With the recent donation of a few Baofeng hand held radios to the club, and with many club members already having their own hand-held 2M transceivers, it seems like the time is prime for a new radio treasure hunt activity for club members, and their families!

Looking at the schedule, how does Saturday or Sunday for the first weekend in October look for everyone? You can let me know at the next club meeting.



One Hundred Years in the Making

By Cory Sickles, WA3UVV

In July, the ARRL held a Centennial Convention as part of their year-long celebration of amateur radio's best-known organization. John, K2ZA and I decided to go up Hartford and take it all in. As I understand it, we were 2 of about 3,300 attendees.



The League was in full attendance with a Dayton-sized booth. Likewise, MFJ, Yaesu, ICOM, Kenwood, Alinco and many dealers had a presence there, including the New Hampshire HRO. As with Dayton, AES was once again conspicuous by their absence. CQ and other publishers had booths, plus there were opportunities to join the Radio Society of Great Britain or Radio Amateurs Canada. I opted for the latter and now have a subscription to The Canadian Amateur.



There was a Collins Radio van from the 1960's, with a very nice compliment of gear inside. John drooled over an EMCOMM trailer and Begali Intrepid bug. We both found some batteries, adapters and other items to acquire.

In addition, it was nice to meet up with some friends and get to meet a few "personalities" that we'd long wanted to speak with. Along with some new technology being showcased, I learned of another DMR portable that's headed to the market for a "low-low" price.

It was also nice to see so many familiar faces of GCARC members who made the trip. At least one that I know of was giving a presentation in one of the many sessions that were scheduled.



On Saturday, I had the opportunity to speak with a number of hams about digital radio in general – with specific focus on System Fusion. At some point, I started thinking of what it would be like to have to explain that – or any of today's amateur radio – to Hiram Percy Maxim, Clarence Tuska or any of the other founders of the League.



For that matter, as I've been a ham for 40+ years, how would I explain today's amateur radio to "Teenage Cory", given all of the advances we've made in the past 4 decades. The scariest thought was what would "Old Timer Cory" living 25 years from now, be trying to explain to me?

I doubt that anyone in 1914 had anything resembling a clue of what the ham radio of today would be. It's simply too far beyond someone's imagination to take such leaps. Innovation and progress happen in steps. Along with that, most predictions of that era were woefully flawed. Like, where are all the flying cars?

Whatever happens in the next quarter-century with our hobby, I hope I'm around to see it, along with remembering how "new" and modern everything seemed, way back in 2014.

A Final Toast To the BEST OF THE BEST.....

Because of these heroes, and others, we are free today!

God Bless them All....

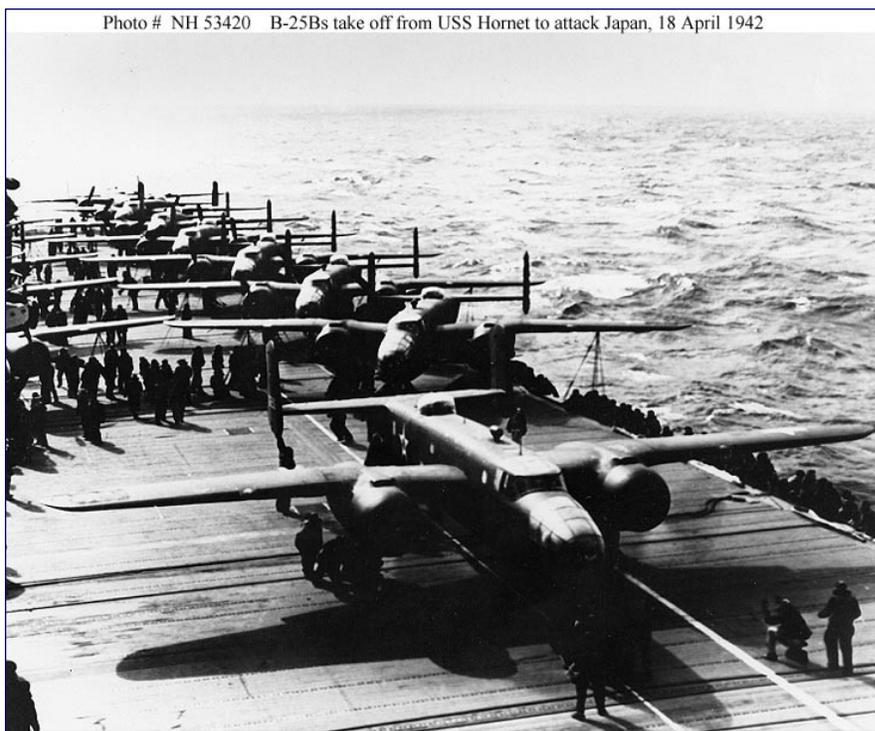
They once were among the most universally admired and revered men in the United States . There were 80 of the Raiders in April 1942, when they carried out one of the most courageous and heart-stirring military operations in this nation's history. The mere mention of their unit's name, in those years, would bring tears to the eyes of grateful Americans.

Now only four survive.

After Japan 's sneak attack on Pearl Harbor, with the United States reeling and wounded, something dramatic was needed to turn the war effort around. Even though there were no friendly airfields close enough to Japan for the United States to launch a retaliation, a daring plan was devised. Sixteen B-25s were modified so that they could take off from the deck of an aircraft carrier. This had never before been tried -- sending such big, heavy bombers from a carrier.

The 16 five-man crews, under the command of Lt. Col. James Doolittle, who himself flew the lead plane off the USS Hornet, knew that they would not be able to return to the carrier. They would have to hit Japan and then hope to make it to China for a safe landing.

But on the day of the raid, the Japanese military caught wind of the plan. The Raiders were told that they would have to take off from much farther out in the Pacific Ocean than they had counted on. They were told that because of this they would not have enough fuel to make it to safety. And those men went anyway. They bombed Tokyo , and then flew as far as they could. Four planes crash-landed; 11 more crews bailed out, and three of the Raiders died. Eight more were captured; three were executed. Another died of starvation in a Japanese prison camp. One crew made it to Russia..



The Doolittle Raid sent a message from the United States to its enemies, and to the rest of the world: We will fight. And, no matter what it takes, we will win.

Of the 80 Raiders, 62 survived the war. They were celebrated as national heroes, models of bravery. Metro-Goldwyn-Mayer produced a motion picture based on the raid; "Thirty Seconds Over Tokyo," starring Spencer Tracy and Van Johnson, was a patriotic and emotional box-office hit, and the phrase became part

(Continued on page 16)

(Continued from page 15)

of the national lexicon. In the movie-theater previews for the film, MGM proclaimed that it was presenting the story "with supreme pride."

Beginning in 1946, the surviving Raiders have held a reunion each April, to commemorate the mission. The reunion is in a different city each year. In 1959, the city of Tucson, Arizona, as a gesture of respect and gratitude, presented the Doolittle Raiders with a set of 80 silver goblets. Each goblet was engraved with the name of a Raider.

Every year, a wooden display case bearing all 80 goblets is transported to the reunion city. Each time a Raider passes away, his goblet is turned upside down in the case at the next reunion, as his old friends bear solemn witness.

Also in the wooden case is a bottle of 1896 Hennessy Very Special Cognac. The year is not happenstance: 1896 was when Jimmy Doolittle was born. There has always been a plan: When there are only two surviving Raiders, they would open the bottle, at last drink from it, and toast their comrades who preceded them in death.

As 2013 began, there were five living Raiders; then, in February, Tom Griffin passed away at age 96.

What a man he was. After bailing out of his plane over a mountainous Chinese forest after the Tokyo raid, he became ill with malaria, and almost died. When he recovered, he was sent to Europe to fly more combat missions. He was shot down, captured, and spent 22 months in a German prisoner of war camp.

The selflessness of these men, the sheer guts... there was a passage in the Cincinnati Enquirer obituary for Mr. Griffin that, on the surface, had nothing to do with the war, but that emblemizes the depth of his sense of duty and devotion:

"When his wife became ill and needed to go into a nursing home, he visited her every day. He walked from his house to the nursing home, fed his wife and at the end of the day brought home her clothes. At night, he washed and ironed her clothes. Then he walked them up to her room the next morning. He did that for three years until her death in 2005."

So now, out of the original 80, only four Raiders remain: Dick Cole (Doolittle's co-pilot on the Tokyo raid), Robert Hite, Edward Saylor and David Thatcher. All are in their 90s. They have decided that there are too few of them for the public reunions to continue.

The events in Fort Walton Beach marked the end. It has come full circle; Florida's nearby Eglin Field was where the Raiders trained in secrecy for the Tokyo mission. The town planned to do all it can to honor the men: a six-day celebration of their valor, including luncheons, a dinner and a parade.

Do the men ever wonder if those of us for whom they helped save the country have tended to it in a way that is worthy of their sacrifice? They don't talk about that, at least not around other people. But if you find yourself near Fort Walton Beach this week, and if you should encounter any of the Raiders, you might want to offer them a word of thanks. I can tell you from firsthand observation that they appreciate hearing that they are remembered. The men have decided that after this final public reunion they will wait until a later date -- some time this year -- to get together once more, informally and in absolute privacy. That is when they will open the bottle of brandy. The years are flowing by too swiftly now; they are not going to wait until there are only two of them. They will fill the four remaining upturned goblets. And raise them in a toast to those who are gone.

Article contributed by Tom Cusack, KC2THO

W1AW Portable Centennial QSO Party Operations

CALL	DATES	LOCATION
W1AW/4	09/03 - 09/09	Tennessee
W1AW/7	09/03 - 09-09	Oregon
W1AW/1	09/10 - 09/16	New Hampshire
W1AW/5	09/10 - 09/16	Texas
W1AW/0	09/10 - 09/16	Colorado
W1AW/1	09/17 - 09/23	Connecticut
W1AW/4	09/17 - 09/23	North Carolina
W1AW/5	09/24 - 09/30	New Mexico
W1AW/7	09/24 - 09/30	Idaho

ARRL Ham Radio License Exam Practice Website

<http://arrlexamreview.appspot.com/>

September Birthdays

Congratulations to these members celebrating birthdays

John Carroll N2SVM
Chris Collins KD2CUS
Mark Gottlieb WA2DIY
Gene Schoeberlein AA2YO
Frank Simila KC2SJ

Past Presidents:

Jack Layton W9UK (K2JKA)

Silent Keys:

Harold Berry WA2QOY
Bill Blakeley WA2ADB
Sidney Gantz WB2JRU
Sonny Gutin WB2DXB
Jose Lopez WB2OZE
Joseph Mitchell KB2FRN
Frank Ritter N2UUY
Harry Spiece NJ2B
Edward Wargo WA2ED

New Tech Question Pool - July 1, 2014

The Technician class (Element 2) Pool is effective on July 1, 2014. It is valid until June 30, 2018. The exam is still 35 questions, but the pool was increased from 394 to 426 possible questions.

Crosstalk Submissions

This is your Club newsletter. Make use of it.

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

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

Submission deadline for the October issue: Monday, September 22, 2014

Club Website <http://www.w2mmd.org>
Club E-Mail Reflector: gcarc@mailman.qth.net

It's Party Time

By Cory Sickles, WA3UVV

Grab your D-STAR gear and party like it's 2014! ICOM is sponsoring another D-STAR QSO Party from the 19th through the 21st. This year, they'll be awarding 10 of the 50th Anniversary Edition ID-51 models. Oooo - colors!



You get points for QSO's and working foreign countries, plus bonus points for sharing GPS info – made easy with late model radios. The more points you score, the more prize draws you get, up to a maximum of 5. That way, you won't have to be on the reflectors for the entire contest. Get 5 and walk away.

Details can be found at <http://www.icomamerica.com/en/amateur/d-starparty2014.aspx>



PA Suburbs to Implement 911 Text Messaging

This article was suggested by Tom Gorman, KE2ES.

<http://psc.apointnl.org/2014/08/08/pa-suburbs-to-implement-9-1-1-text-messaging/>

Has anyone experienced a “Long Delayed Echo”?

By Jim Wright, N2GXJ

So you think you've experienced just about all HF radio has to offer. Well, have you ever experienced an LDE? “What's an LDE?” you ask. Well, would you believe there are reports, dating back to the 1920's, of hams, on rare occasions, having heard echoes of transmitted signals delayed by seconds? We're not talking about the rare enough occurrence of an HF signal going around the world and being heard back at the receiver with about a 1/7 th of a second delay (124-152 ms). We're talking about delayed echoes of several seconds!!! With several documented cases in December of 1928 where the delay between direct signal and echo was more than 20 seconds!!!

I've certainly not experienced this, and had not even heard of such a thing until I read a quick mention of LDEs in one paragraph of the recent August 14 “The ARRL Letter” that was emailed to me. Apparently this phenomenon was written about in the February 1970 QST, and then again in May of 1969, with more follow-up articles in 1970 and 1971.

As an ARRL member, you can always do an online search of ARRL periodicals, which I did using the key word LDE for the search to try and find out more. The query came up with 17 different entries. One was from 2010, but most were from the late 1970's/early 1980's timeframe. The oldest entry turned out to be the original May 1969 article titled “Long-Delayed Echoes...Radio's “Flying Saucer” Effect”. How's that for a title? There was another article by OZ4UN in the November 2009 QST, but that one seemed focused on MDEs (magnetosphere duct) with delays of around 237 ms (still under 1 second). That's interesting, but not as interesting to me as are sightings of delayed echoes of multiple seconds. And not correlated with the Earth-Moon-Earth round trip delay. Is there anyone in our club that has experienced this phenomenon and would care to share their experiences?



Webinar Helps to Build Ham Community Cohesion, Momentum for H.R. 4969

(Credit: August 21, 2014 - *The ARRL Letter* and *The Amateur Radio Relay League*)

An August 13 webinar on "The Amateur Radio Parity Act of 2014" -- H.R. 2014 -- attracted some 450 online participants who wanted to learn more about the proposed legislation and how they could get involved in speeding its passage. US Rep Adam Kinzinger (R-IL) introduced H.R. 4969 in June, with US Rep Joe Courtney (D-CT) as its first co-sponsor. This bipartisan initiative would direct the FCC to apply the "reasonable accommodation" three-part test of the PRB-1 federal pre-emption policy regarding antennas to private land-use restrictions (CC&Rs). The ARRL Atlantic Division sponsored the webinar, and Director Bill Edgar, N3LLR, served as moderator. "I think the webinar really helped to bring members together on H.R. 4969," Edgar said afterward. More than 900 registered for the event. During the webinar, ARRL General Counsel Chris Imlay, W3KD, and ARRL Hudson Division Director Mike Lisenco, N2YBB, discussed the measure and what it would mean for ARRL members and the Amateur Radio community, and explained how individuals could help. Edgar said he's heard a lot of positive feedback from members, who thanked his Division for putting on the webinar and said they were going to assist the campaign by contacting their members of Congress.

Lisenco said this week that 17 co-sponsors now have signed on to H.R. 4969, and he's confident that several more will add their names to the list once Congress reconvenes after its August recess. He said the webinar helped members of the Amateur Radio community to realize that they must become "activists" in order to make things happen. "The overwhelming majority of [ARRL] members have been extremely positive," he said this week, although he conceded that some radio amateurs do not favor H.R. 4969. "You're going to find people who are against it, because that's their political philosophy," he said, "but a lot more want to send letters or visit their representatives. It's just a matter of getting people motivated." Lisenco views H.R. 4969 as a "mom-and-apple-pie" issue. "It's a no-brainer," he said in the wake of the webinar. "'Reasonable accommodation.' How can you say 'no' to that? The more people who see how simple this is, the greater the likelihood that it will get done." Getting the bill passed is a matter of building consensus, and he believes that this is the time to act. "If we don't do it now, the opportunity may not present itself again very soon," he said.



ARRL Atlantic Division
Director
Bill Edgar, N3LLR



ARRL Hudson Division
Director Mike Lisenco,
N2YBB.
[Rick Lindquist,
WW1ME, photo]

Lisenco said that most questions during the webinar came from those who already live in deed-restricted communities and wanted to know how H.R. 4969 might affect them. He pointed out that some 65 million Americans live in deed-restricted households, and that number is growing. As he explained, the measure would give hams in deed-restricted communities an opportunity to negotiate in good faith with homeowners associations to arrive at a "reasonable accommodation" of their antenna requirements -- nothing more. "Everybody wants the biggest antenna they can put up," he said, "but you have to be practical, you have to be pragmatic. Folks who have not had an opportunity to put up any antenna will be happy with any antenna they can get." Each community is different, he said, and the bill does not specify any particular types of antennas. Lisenco said that with many members of Congress on vacation, it's difficult to get appointments to meet with them to seek their support. Some 1500 members from all over the US signed letters at the ARRL National Centennial Convention urging their representatives to co-sponsor H.R. 4969. Another 500 or so letters went out to members of Congress a week later. But, Lisenco added, face-to-face meetings between members of Congress or their staff members and constituents have proven to be the most successful approach. Lisenco anticipates that activity to gain additional support for the measure will ramp up again next month.

Are You Prepared?

By Cory Sickles, WA3UVV

September is Preparedness Month. It's a good time to re-view your readiness to "bug out" in case of disasters and your ability to shelter in place, if need be. An adequate supply of water (remember the folks in Youngstown, OH a few weeks back?) food, batteries and all the other stuff you might need in the event that there's a significant loss of infrastructure for an extended time.

Of course, amateur radio should be part of your plan and prep. Just a little common sense and forethought can keep you from being part of the masses rushing to clean out grocery stores and more.

It may also be a good time to talk to others about ham radio and communications in general. A good Weather Alert receiver and some FRS radios can come in handy.

Check out NOAA's site for more info and helpful hints:

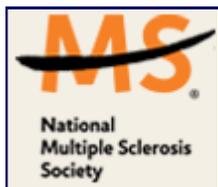
<http://www.nws.noaa.gov/com/weatherreadynation/prep.html#.UYH00Y77A>



Club Elections

By Jim Wright, N2GXJ

To paraphrase a famous quote, "Think not what your club can do for you, but what you can do for your club". This is a volunteer organization, for you, by you, for the enjoyment of all of us. As we approach the 4th quarter of this year, think about how you can make a positive difference as we continue to grow the club into next year. Email me. Let me know of your interest. We'll be accepting nominations for 2015 officers and board members starting at the October general membership meeting.



MS-150 Participation - September 27-28, 2014

By Cory Sickles, WA3UVV

This year (the warm part, at least) is going faster than you may realize. The end of September is not that far away, so if you haven't already signed up to help with communications, please do. An application to print out, fill in, and mail, and additional information is available on our web site on the "MS-150 City To Shore Bike Ride" page.

The MS-150 weekend cycling event is scheduled for September 27 and 28, 2014. That date is closer than you may think. Also, it helps the MS Society's "sanity factor" if they have people volunteer early. There are many positions available on the route for Saturday, Sunday or both – and – your skills are greatly appreciated by all concerned.

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

The MS-150 is another high-profile opportunity for us to demonstrate the kind of professional-grade services we offer, plus it's unique in that the communications support involves a mix of ham radio, GMRS and CB. So, if you know someone who might want to help out in non-ham ways, then please share this info with them.

Going to the Faire

By Cory Sickles, WA3UVV



If you like to build things or at least gaze at those who do, then the Maker Faire in NYC could be where you want to be on the 20th and 21st. Located at the Hall of Science on 47-01 111th Street, in Queens. As I like to do both, I think I'll be going.

If it were in Manhattan, a nice Bolt Bus ride from Cherry Hill or train ride from Hamilton Square would be an easy way to get in. Queens either means a long walk or exposing myself to the dreaded subway, so I'll probably drive.

Ticket prices for a weekend pass are \$60, with a single day at \$32.50. The real bargain however, combines a year's subscription to MAKE! Magazine and Day Pass for just \$42.50. If anyone else is interested in sharing the experience – and expenses – please let me know.

<http://makerfaire.com/new-york-2014/getting-to-maker-faire/>

Regional Hamfest and Events

September 6 - 7, 2014 : Cumberland Amateur Radio Club 50th Anniversary Celebration Special Event, 21.360MHz, 14.260MHz, 7.260MHz, 3.860MHz; CW & SSB 2 through 80 Meters, 146.490MHz FM, Carlisle, PA. www.home.comcast.net/~carc-k3iee

September 13, 2014 : Roseland Amateur Radio Club - Celebrating 69 years of Operating Special Event, 146.550 MHz Simplex, Roseland, NJ. <http://qsl.net/k2gq/>

September 13 - 15, 2014 : State Line Radio Club Annual Picnic, Mud Run Park, 21.280MHz, 14.240MHz, 7.240MHz, Holtwood, PA. <http://www.w3rei.com/>

September 13, 2014 : Baltimore Amateur Radio Club Special Event - **Bicentennial of the Writing of *The Star Spangled Banner***, 21.290MHz, 14.190MHz, 7.225MHz, 3.815MHz, Reisterstown, MD. www.w3ft.com

September 19 - 20, 2014 : Delaware Valley Historic Radio Club - Antique Radio Meet & Auction, Renningers Antiques Market, Kutztown, PA. www.dvhrc.info or www.renningers.com

September 19 - 20, 2014 : Military Radio Collectors Association - Military Radio Meet/Redball Military Transport Rally, Gilbert, PA. www.mrca.ar88.net

September 20, 2014 : Delaware Valley Radio Association - DVRA Fall Hamfest, West Windsor, NJ. www.w2zq.com

September 27, 2014 : Ocean-Monmouth Amateur Radio Club - OMARC Tailgate Hamfest, Wall Township, NJ. www.n2mo.org

September 28, 2014 : Mt. Airy VHF Radio Club (Packrats) - Mini-Hamfest, Bensalem, PA. www.packratvhf.com

Contest Calendar

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

September 2014

+ MI QRP Labor Day CW Sprint	2300Z, Sep 1 to 0300Z, Sep 2
+ ARS Spartan Sprint	0100Z-0300Z, Sep 2
+ QRP Fox Hunt	0100Z-0230Z, Sep 5
+ NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 5
+ CWOps CW Open	0000Z-0359Z, Sep 6 and 1200Z-1559Z, Sep 6 and 2000Z-2359Z, Sep 6
+ All Asian DX Contest, Phone	0000Z, Sep 6 to 2400Z, Sep 7
+ Wake-Up! QRP Sprint	0600Z-0629Z, Sep 6 and 0630Z-0659Z, Sep 6 and 0700Z-0729Z, Sep 6 and 0730Z-0800Z, Sep 6
+ AGCW Straight Key Party	1300Z-1600Z, Sep 6
+ North American Sprint, CW	0000Z-0400Z, Sep 7
+ DARC 10-Meter Digital Contest	1100Z-1700Z, Sep 7
+ Tennessee QSO Party	1800Z, Sep 7 to 0300Z, Sep 8
+ QRP Fox Hunt	0100Z-0230Z, Sep 12
+ NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 12
+ WAE DX Contest, SSB	0000Z, Sep 13 to 2359Z, Sep 14
+ FOC QSO Party	0000Z-2359Z, Sep 13
+ SARL VHF/UHF Analogue/Digital Contest	1000Z, Sep 13 to 1000Z, Sep 14
+ Arkansas QSO Party	1400Z, Sep 13 to 0200Z, Sep 14
+ ARRL September VHF Contest	1800Z, Sep 13 to 0300Z, Sep 15
+ North American Sprint, SSB	0000Z-0400Z, Sep 14
+ Swiss HTC QRP Sprint	1300Z-1900Z, Sep 14
+ NAQCC Straight Key/Bug Sprint	0030Z-0230Z, Sep 18
+ NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 19
+ ARRL 10 GHz and Up Contest	0600 local, Sep 20 to 2400 local, Sep 21
+ Scandinavian Activity Contest, CW	1200Z, Sep 20 to 1200Z, Sep 21
+ SRT HF Contest SSB	1300Z, Sep 20 to 1300Z, Sep 21
+ QRP Afield	1500Z, Sep 20 to 0300Z, Sep 21
+ Washington State Salmon Run	1600Z, Sep 20 to 2400Z, Sep 21
+ BARTG Sprint 75	1700Z-2100Z, Sep 21
+ NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 26
+ CQ Worldwide DX Contest, RTTY	0000Z, Sep 27 to 2400Z, Sep 28
+ AGCW VHF/UHF Contest	1400Z-1700Z, Sep 27 (144) and 1700Z-1800Z, Sep 27 (432)
+ Texas QSO Party	1400Z, Sep 27 to 2000Z, Sep 28

2014 Club Officers - 1 year term

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

Board of Directors - 3 year term

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

Trustees - 4 year term

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

Committee Chairs

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



The W2MMD Repeaters

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

Output: 442.100 MHz
Input: 447.100 MHz
Offset: +5 MHz - PL: 131.8 Hz

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

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

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

GCARC 2M Ragchew Net
Thursday, September 18, 2014
20:00 Hrs
147.180+ MHz (PL131.8Hz)

ARES/RACES Net
Sunday 20:00 Hrs
147.180 and 224.660 repeaters

VE License Session
Thursday, Sept. 11, 2014 @ 1900 Hrs
Franklin Township Public Library
Franklinville, NJ
Gary Reed, N2QEE
[glreed49 <at> verizon <dot> net](mailto:glreed49@verizon.net)

Meeting Calendar

General Membership Meeting

19:30 Hrs, Wednesday, September 3, 2014
Pfeiffer Community Center
301 Blue Bell Road
(Main Street and Blue Bell Road)
Williamstown, NJ

Board of Directors Meeting

19:00 Hrs, Wednesday, September 17, 2014
GCARC Clubhouse
Gloucester County 4-H Fairgrounds
235 Bridgeton Pike (Rt 77), Mullica Hill, NJ

Club Meeting Program

Wednesday, September 3, 2014

Software Defined Radio Dongles
Dan Tremolini, N2TXG



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