

CROSSTALK

Volume 55

Issue #07

Celebrating Our 55th Year

July 2014



President's Message



By the time this goes to print, we'll have just finished Field Day 2014, the most popular on-the-air operating event in Amateur Radio. How did it go? Come on out to the July 2 club meeting for a full recap, and for a preview of our August W1AW/2 operations planned out at our new clubhouse!

There's plenty to look forward to in July. For example, the ARRL's National Centennial Convention takes place in Connecticut (July 17-19). There are also on-air events, like the ever-popular IARU HF World Championship (July 12-13), and before that, the "Original 13 colonies" on-the air special event held from July 1 through to the end of the July 4 weekend (July 1-6). Stations working one state, or as many as all 13, will be eligible for a very cool certificate based on the theme "Revolution War Era Colonial Currency". In addition to HF stations operating in CT, DE, GA, MA, MD, NC, NH, NJ, NY, PA, RI, SC, and VA, it looks like bonus station WM3PEN operating from Philadelphia, PA will be on D-STAR each evening. Anyone up to the challenge of trying for a "Clean Sweep"? Check out www.13colonies.info for more details. What fun!



June was a busy, but great month to be part of this radio community. We started the month out at our June club meeting during the business portion by recapping progress at the clubhouse site, participation in the recent WalkMS and Memorial Day parade events, and getting updates on our repeater system, and progress towards our September 14th Hamfest fund raising event, amongst other things. We then followed that up with a great evening of socializing during "Free Pizza Night". It case you missed it, yes, all 4 repeaters (The 1284.4, 442.1, 224.66 Mhz FM and DR-1 147.180 Mhz Digital/conventional FM repeaters) are operational (thank you Al and Cory)!



Among the June highlights was the communications support provided by the ARES/RACES team to the three-race, multi-lap, open-road Tour de Pitman bike race held here in our local community. Congratulations Ed N2RO on a very successful event! Some pictures have been posted to our www.w2mmd.org web site. There was also a successful VE test session held at the Franklin Township public library (thank you Gary N2QEE,



and welcome new hams.

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And, of course, there was Field Day (thank you to chairmen Mark W2OCY and Kyle W2KBT, Wayne WA2LET on food, and to you, the members of this club, for making this such a memorable event)!

W2MMD to Operate As W1AW/2 from our New Clubhouse, August 8 and 9, 2014

As part of the ARRL's Centennial Celebration, W1AW is operating portable on the air in each state and most territories throughout this year. W1AW/2 operations return to New Jersey the first full week in August. If you find yourself having "Field Day withdrawal symptoms" about a month from now, this could be the antidote! Our club will be operating out of our new clubhouse as one of the W1AW/2 stations during this event! I've presently reserved 6 hours on Friday night August 8, and another 4 hours on Saturday afternoon August 9. Additional time slots may be available. Contact me direct if you want to get in on the action.

Wonder what's next? Invite a friend and come on out to the next club meeting on July 2 to find out! Hope to see you there!

Respectfully,
Jim Wright, N2GXJ



Down Jersey DXing By Bill Grim, W0MHK

While we are gearing-up for the summer hot weather Down Jersey, perhaps a few operating tips need to be listed, refreshed and renewed:

- 1) All too often, especially on the 6 Meter Band, stations DO NOT give their call signs phonetically. Please ID yourself with conventional phonetics (not Many Hopping Kangaroos)!!! T-C-E-B-D all sound about the same with the quick openings and dramatic QSB on 6 Meters. You probably know your own call very well, but the guy on the other end might have never copied your signal before in his years of hamming. It's especially frustrating on 6M when hunting for new grids, and you cannot discern the correct call sign to look up the station's grid on QRZ.com, as an example.
- 2) When tuning up, just ask, "Is the frequency in use?" or send QRL on cw. You may be tuning up on a net frequency or on top of a qso that has been going on prior to turning your rig on! A few words = etiquette and you won't be causing misery for others and yourself.
- 3) In conjunction with #2 above, DO NOT TUNE UP/TRANSMIT on a DX station's operating frequency. I sometimes unknowingly break this rule because of the wonderful convenience most transceivers offer - the ability to SPLIT your frequency. I think I am operating SPLIT, but I am actually operating SIMPLEX on top of the DX. It is extremely easy to do. Using multiple rigs can increase your propensity to make this error. It's hard to THINK before transmitting in the hunt for a station you are excited about working. Usually the rest of the world will tell you about your mistake, but it's much easier on everyone to avoid the situation with practice and knowing your rig in the first place. You have to constantly work on this one.
- 4) If you are hoping to work a DX station and you hear him simultaneously on a number of bands, try working him on the highest band copyable. Keep in mind your various antennas and their height strengths and weaknesses. Are you able to switch between antennas to determine where the station is strongest?

(Continued on page 3)

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Given all factors being equal, I would go with the highest band (in Mhz) where I can copy him. I would also consider chasing him on the WARC bands as a high priority. Even in these days of 5 band Yagis, fewer hams still have directional antennas on the WARC bands. Also, check the size of the pile-up and where the station is working most stations (like East Coast over West Coast). Consider that in your decision too!

5) Be sure the station you see on the DX Cluster of your choice is, IN REALITY, the same station you are calling!!! Sometimes spots on clusters (even multi-spots) are dead wrong! It's always best to confirm the station's callsign but using your own ears. "Sorry, not in log" when your qsl card is returned is a very disappointing rejection. You can avoid rejection by confirming the callsign of the station you are chasing.

Before going to our month's picks, let's keep our fingers crossed for some productive USA and DX openings on 6 Meter Sporadic-E. Our list tends to favor the Pacific area again. 10 and 12 should continue to favor southern DX openings with fewer East/West possibilities. Hope you hook-up with some of the following:

CALL	DATES	HIGHLIGHTS	DIFFICULTY (5=MOST RARE)	ENTITY
TK	07/01 - 07/13	40-10M/RTTY, PSK, JT65	1	Corsica
5W0ML	07/03 - 07/07	HF/CW, SSB	2	Samoa
FP	07/05 - 07/15	80-6M, SSB, CW, RTTY	1	Miquelon Island
TO5MJ	07/07 - 07/17	40-10M/CW, SSB, Digital	1	Guadeloupe
3D2ML	07/08 - 07/12	HF/SSB, CW	2	Fiji
E51AND	07/10 - 07/13	HF/SSB, "Slow" CW	2	North Cook Island
5H1NE	07/22 - 08/06	HF/SSB	2	Tanzania
OX	07/25 - 07/30	HF/QRP	1	Greenland
VK9EC	07/29 - 08/02	160-6M/All Modes	4	Cocos/Keeling
4W	07/31 - 08/05	30-12M/SSB, CW	4	Timor Leste

Credits : NG3K ADXO

Upcoming Programs and Presentations

By Cory Sickles, WA3UVV

Mark and Kyle Townsend will have the floor after the business portion concludes as they give us a recap of this year's Field Day activities. This is a popular topic. Even if you didn't join in on the fun and learning, you'll no doubt enjoy the conversation.



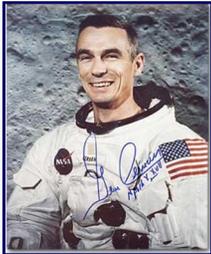
August's topic will cover building your own antennas, with some interesting design ideas. Stay tuned for more details and the schedule for the rest of the year, as they develop.



It Doesn't Seem Like 45 Years...

By Cory Sickles, WA3UVV

On July 20, 1969 the immortal words “One small step for a man, one giant leap for mankind” were uttered by Neil Armstrong, as he first stepped foot onto the surface of our moon, with Edwin “Buzz” Aldrin, Jr. following in a few minutes. Due to some noise in the signal and other factors, the “a” was not heard and the phrase ended up as what we most often hear.



After Apollo 11, there would be 5 more landings, with a total of 12 Americans walking on the moon. Gene Cernan currently holds the title of last man to walk on the moon. Apollo 17 was the last mission, although more were originally planned. President Richard Nixon, who famously congratulated the Apollo 11 astronauts with a “telephone call from the White House” also killed the funding and ended the program prematurely. I think every President since Nixon has held a press conference about funding manned Martian exploration, but unless I slept through something, we’ve only sent robots there.

Today in fact, our nation is flying no one into space. The Saturn V rocket system was a miracle of engineering, yet no complete set of schematics exist. The surviving Space Shuttles are in museums and we rely on Russia to get our astronauts to the International Space Station. Private firms are now sending supply vehicles up to dock with it.

A “new” design is still in the design (and re-design) phase. Who knows when the first working test version will actually exist and be launched. Certainly there’s no collective sense of urgency to make it happen, as there was throughout the 1960’s, when we had a clear vision.



The space program has resulted in a tremendous amount of technological breakthroughs that we enjoy today. Look around at the miniaturization of electronics and communications advances, just to see a few. Medicine, automotive and aircraft safety are just some of the other benefits we derived. Research and science experiments continue on the ISS today, with more advances that will be used in the future.



Space exploration has evolved as private industry is working on sub-orbital “Space tourist” flights and eventually, the ability to transport astronauts into space without the need for Russian engines. The private sector may well be the next stage in exploration, but vision came from the leaders our nation had then and the kind of resources that only the government has. What seems to be missing is vision and imagination. As we all did back in 1969, look up at the moon on the 20th and let your imagination run free. Maybe it will help...



International Amateur Radio Union
HF World Championship
1200 UTC Saturday, July 12 to 1200 UTC Sunday, July 13, 2014
www.iaru.org/contests.html

Field Day - June 28-29, 2014 - Band Chart

Band	Operator	Mode
2 Meters	Bart Conrad, KC2WVP	Phone
	Jeff Griffin, KB2M	Satellite
6 Meters	Al Arrison, KB2AYU	Phone
10 Meters	Vinnie Sallustio, N4NYY	Phone
15 Meters	Mark Gottlieb, WA2DIY	Phone
	John Zaruba, K2ZA	CW
	Jim Wright, N2GXJ	Digital
20 Meters	Kyle Townsend, W2KBT	Phone
	Chris Heller, WK2W	CW
	Jerry Jacobus, WB2QEF	Digital
40 Meters	Kenny Denson, WB2P Wayne Wilson, WA2LET Tom Gorman, KE2ES Gene Wallace, N2IMK	Phone
	Sheldon Parker, K2MEN	CW
	Jim Wright, N2GXJ	Digital
80 Meters	Dan Tremolini, N2TXG Tony Otlowski, KD2AFY	Phone
	Merrill Brown, WK2G Darrell Neron, AB2E Chris Heller, WK2W	CW

Field Day Chairmen - Mark Townsend, W2OCY and Kyle Townsend, W2KBT
w2ocy.snj@gmail.com

D-STAR Sputnik

By Cory Sickles, WA3UVV

On June 19th, TabletSat Aurora – a D-STAR “parrot” satellite – was launched as part of an 11 satellite package. While there are a few transceivers on it, as well as an X-band downlink near 8GHz, the most interesting feature is a store-and-forward transceiver on 437.050MHz. The store-and-forward memory allows for up to 8 seconds of speech.

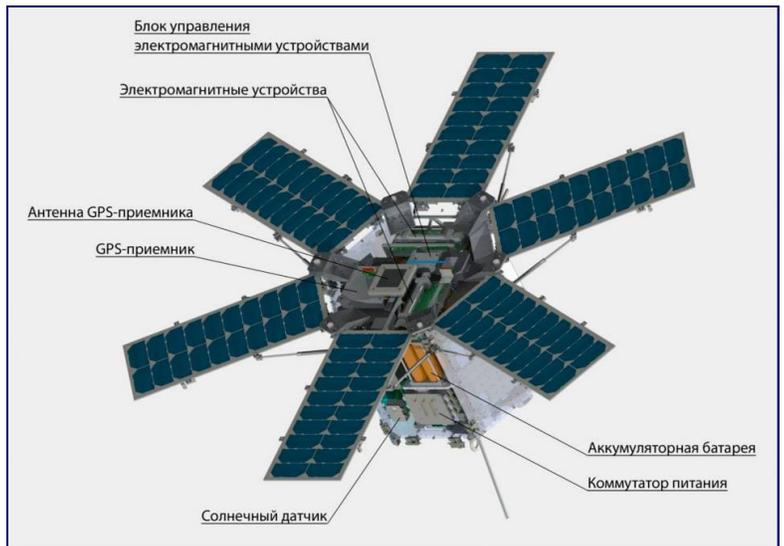
While 8 seconds may not sound like much, bull riders I’ve known say it can feel like an eternity. If you’re familiar with FM satellite operation and how most QSOs tend to go, 8 seconds is more than enough for most exchanges. Phrases like “WA3UVV listening”, “You’re 5-9. QTH Fox Mary 29”, or even “Roger, VE2ABC from WA3UVV. Thanks for the contact. 73, Old Man!” all fit well within that window. Of course, the exchange will have some interstitial time, as the other station records his/her message and un-keys, before you can hear it.

Using a store-and-forward approach opens up some other possibilities for digital voice satellites – even those moving data from applications like D-RATS. Perhaps a System Fusion or even P25 bird (would be relatively easy to build with the hardened guts of an Astro Saber HT and Arduino) could appear in the not-too-distant future.

A dual-band D-STAR bird is still scheduled for later this year, but you can enjoy this one with your ICOM ID-31A and a simple yagi. Give it a listen to get into the rhythm of the exchanges, then join in and start making contacts.

Here are some links for more information:

- <http://tinyurl.com/TabletSat-Aurora-Description>
- <https://www.facebook.com/SPUTNIX.ltd/photos/a.336584396454237.77484.293701294075881/569763353136339/>
- <https://www.facebook.com/SPUTNIX.ltd/>
- <http://amsat-uk.org/>



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





U.S. Army Signal Corp Museum By Bill Szkromiuk, W4WCS

Reporting from Aiken, South Carolina.

I Recently took a trip to the U.S. Army Signal Corp Museum at Fort Gordon, Georgia. Just wanted to share some of the pictures. Being Ham Radio Operators, you might find it interesting.

Information on Fort Gordon.

Fort Gordon is home to the United States Army Signal Corps and Signal Center. The installation is located in Richmond, Jefferson, McDuffie and Columbia counties, Georgia. The main component of the post is the Advanced Individual Training for Signal Corps "military occupational specialties". The U.S. Army Signal Center and Fort Gordon, "The Home of the Signal Corps", trains more soldiers than any other branch training center of the United States Army. Camp Gordon was named after the **Confederate Lieutenant General John Brown Gordon**.



During World War II the installation was activated for infantry and armor training. In September 1948, the Signal Corps Training Center was established here. Camp Gordon was redesignated Fort Gordon and become a permanent Army installation in 1956. Designating the installation the U.S. Army Signal Center, the Army consolidated all communications training at Fort Gordon in 1974. Fort Gordon figures prominently in the post-Cold-War national defense.



Please go to our website, www.w2mmd.org on the "W4WCS's Tour of the Signal Corp Museum" page for Bill's picture tour.

Links for more information:

Fort Gordon Home Page : <http://www.gordon.army.mil/index.php/en/>

The SIGNAL. Fort Gordon On-Line Newspaper : <http://www.ftgordonsignal.com/>

An interesting article on the recent actions of one Signal Corps Unit in Combat : <http://www.dvidshub.net/news/23650/bastogne-signal-company-exudes-warrior-ethos-accepts-combat-role-outside-technical-expertise#.U3j5D3amWbZ>

Welcome New Club Members:

Robert Fields, KC6AOH, who holds a General class license and lives in Ridley Park, PA.

Charles Emmel, KD2FYF, who holds a General class license and lives in Malaga, NJ.

Michael Weldon, KB2UMJ, who holds an Amateur Extra class license and lives in Stratford, NJ.

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

Our 442.100MHz Repeater is Open for Business

By Cory Sickles, WA3UVV

In other 70cm-related news, the Club's 440 machine is up and running once more. In early June, Al Arri-son, KB2AYU, climbed up the water tower and replaced the jumper from the hardline to the antenna – while yours truly stayed safely in the tower's base and ran tests. We also returned the PL reed in the receiver to 131.8Hz, as published. The repeater is linked to our 1284.4MHz repeater.

Some years ago, our repeaters were kept very busy. It was common to hold numerous conversations during the day on 2 Meters. During "drive time", roundtables with a significant number of members were common. The 2M machine had autopatch – allowing us to make telephone calls while on the air – a feature retired as cell phones became so popular. If you wanted a more "private" conversation during that time, the 440 machine was pressed into service, although there were times it hosted roundtables, as well.

For Novices or others that wanted another place to chat, there was our 220 machine. It has an excellent coverage area and always has. Today, we also have a 1.2GHz repeater and there are more with capabilities on this band than you might imagine.

We also now have digital capabilities on 2M, with the number of System Fusion adopters on the rise, with regular roundtable discussions in this mode. If we ever wish to bring an Internet connection into the tower, we'll be able to link the repeater, once the WIRES-X HRI-200 interface becomes available. With advances in VOIP, we could even return autopatch capabilities to the "fancy" controller on the 440 repeater without a monthly POTS bill.



Along with regular communications, we have Rag Chew, ARES/RACES and other nets, throughout the week. If you'd like to start a CW practice, technical discussion, digital-oriented or other on-air get-togethers that benefit amateur radio, look for an open space in the schedule and see what you can come up with.

Whether we use 2M or any of the other repeaters as an "intercom" for members and visitors, communicating throughout the day builds relationships and helps us get to know each other a bit better – especially important with a steadily-growing group such as ours. These resources are available for all of us. I hope to hear more and more of you take advantage of them.

ARRL June VHF QSO Party - June 14, 2014

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

Class: Single Op LP
QTH: SNJ
Operating Time (hrs):

Summary:

Band	QSOs	Mults
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6:	12	8
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Total:	12	8
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Total Score = 96

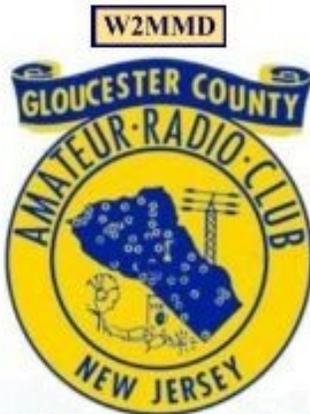
Club: Frankford Radio Club



Gloucester County 4-H Fair and New Jersey Peach Festival

July 24 - 27, 2014

www.gc4hfair.com



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 and 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 good for **Door Prize Drawings** throughout the day (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**
- ◆ **GPS : 39.715607°, -75.211816°**



Location : Gloucester County 4-H Fairgrounds

(Event will be held in Pavilion area)
235 Bridgeton Pike (Rt 77) • Mullica Hill, NJ 08062
Off Exit 2 of the New Jersey Turnpike



* 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

QST de W1AW ARRL Bulletin 14 ARLB014
From ARRL Headquarters Newington CT June 23, 2014
To all radio amateurs

SB QST ARL ARLB014
ARLB014 Changes to Amateur Service Part 97 Rules Go Into Effect on July 21

The FCC's recently announced revisions to the Part 97 Amateur Radio rules governing exam credit to former licensees, test administration, and emission types will go into effect on Monday, July 21. The new rules were published in The Federal Register on June 20.

In a wide-ranging Report and Order (R&O) released June 9, the Commission announced that it would grant examination credit for written elements 3 (General) and 4 (Amateur Extra) to holders of "expired licenses that required passage of those elements." The FCC will require former licensees falling outside the 2-year grace period to pass Element 2 (Technician) in order to be relicensed. The Commission declined to give exam credit to holders of expired Certificates of Successful Completion of Examination (CSCEs) or to extend lifetime validity to CSCEs. The R&O can be found on the web in PDF format at, http://transition.fcc.gov/Daily_Releases/Daily_Business/2014/db0609/FCC-14-74A1.pdf.

The FCC also embraced the use of remote testing methods, allowing volunteer examiners and volunteer examiner coordinators "the option of administering examinations at locations remote from the VEs." The National Conference of Volunteer Examiner Coordinators (NCVEC) in 2002 endorsed experimental use of videoconferencing technology to conduct Amateur Radio testing in remote areas of Alaska. The Commission dropped its earlier proposal to permit two VEs to administer exams; the requirement remains at three VEs. The Commission did not spell out the "mechanics" of remote testing, however, which it said would "vary from location to location and session to session." VEs administering examinations remotely must grade such examinations "at the earliest practical opportunity," rather than "immediately," as the current rule for conventional exam sessions requires.

The FCC also adopted an ARRL proposal to authorize certain Time Division Multiple Access (TDMA) emissions in the Amateur Service. The Wireless Telecommunications Bureau in 2013 granted an ARRL request for a temporary blanket waiver to permit radio amateurs to transmit emissions with designators FXD, FXE, and F7E, pending resolution of the rulemaking petition. That waiver becomes permanent on July 21.

The Commission also made "certain minor, non-substantive amendments" and corrections to the Amateur Service rules.

World Radiosport Team Championship 2014 - July 8 - 14, 2014

The World Radiosport Team Championship (WRTC) is a competition between two-person teams of amateur radio operators testing their skills to make contacts with other Amateur Radio operators around the world over a 24 hour period. Unlike most on-the-air competitions, all stations are required to use identical antennas from the same geographic region, eliminating all variables except operating ability.

WRTC2014 will include 59 competing teams from 29 qualifying regions around the world. This will be the largest and most competitive WRTC ever! - www.wrtc2014.org



Amateur Radio Is Public Service

Correct terminology will more accurately reflect the service we provide.

There have been some changes going on in the Public Service arena recently. I'm handing over this month's column to ARRL Emergency Preparedness Manager Mike Corey, K1IU, to explain the new Public Service direction for the Amateur Radio Service.

Over the past few years there has been a shift in terminology in ARRL publications from the use of the term "EmComm" to the new term, "Public Service Communications." This change has happened for two reasons.

The first reason is that "Public Service" is a more accurate description of Amateur Radio's activities. Second, each of these terms, "EmComm" and "Public Service," carries its own images and connotations. Although we are accustomed to the term "EmComm" and it does have a certain "dramatic" element, the phrase "Public Service" carries great value in its own right.

Let's start with an examination of the problems associated with the use of "EmComm" and its derivatives, "EComm" and "Emergency Communications."

The Problem with "EmComm"

The problem begins with the definition of "emergency communications." One does exist and can be found on the FCC's website (www.fcc.gov/guides/emergency-communications). Emergency communications consists of three components: 911 call centers, the emergency alert system, and broadcast media such as radio and television. Amateur Radio is not mentioned in this description of emergency communications. Even the National Emergency Communications Plan only mentions regulation of the Amateur Radio service as something related to emergency communications (www.dhs.gov/xlibrary/assets/national_emergency_communications_plan.pdf). To put it simply, we can help support emergency communications, but we are not an emergency communications service.

The term, outside of Amateur Radio, can be confusing. To the layman, "EmComm"



This flooding constitutes a disaster for the town in which it's occurring. If the flooding affects the building pictured, the owner of the building may have an emergency to deal with.

is jargon and not explicitly clear. It's a term that only makes sense to those involved with it. Even "emergency communications" may mean something entirely different to the layman. The word "emergency" carries a lot of weight and to most, it means a life-or-death situation.

The Difference Between An Emergency and a Disaster

When we look at what we do as amateurs in the area of public service, we usually divide it into two areas: public service events and emergency communications. However, in reality there are three areas: public service events, emergency communications, and disaster communications. The latter two need a bit of explanation as to what sets them apart.

Early in my law enforcement training the difference was explained to me this way: "A disaster happens to you; an emergency happens to me." While this explanation is

humorous, it isn't too far off base. A disaster typically has several key components: a large area of impact, a long duration of response and recovery, and the compromise or failure of normal systems during that recovery period. An emergency is an immediate threat to life and/or property.

Amateurs have played a role in both disaster and emergency communications. Hurricanes, tornadoes, floods, and landslides of the past century have all had a response component that included Amateur Radio. These are *disasters*, though — not emergencies. And our role is to be communicators during times of disaster. As for *emergencies*, amateurs have assisted in providing communications when they come across a house on fire, a boater in distress, or a traffic accident. Our role is to communicate emergencies when they happen.

If we look at what we do overall, we easily see that most of our work is in the area of public service events: festivals, parades, marathons, etc. Disasters are our second largest area of work. Hurricane response always includes Amateur Radio, and the SKYWARN program would not be the same without Amateur Radio support. True emergencies, however, are very rare.

If we were to break it down by the numbers, according to our collective years of experience, we can safely say that Amateur Radio Public Service Communications is about 80 percent public service events, 19 percent disaster communications, and 1 percent emergency communications.

This breakdown helps us see the whole picture of the value of the Amateur Radio Service.

The Community Service Umbrella

The new term, *Public Service Communications*, is a more accurate Amateur Radio term, which better describes what we do and who we serve. Our role as amateurs is to assist the public during times of communication emergency, disaster, or when normal systems are overloaded. Our role



Providing communications along a lengthy parade route is a common way hams serve the public.

is more far-reaching than just during rare times of true emergency. We may work with served agencies, but our true customer is the public.

The term also conveys the value of Amateur Radio at all times. Day to day, we serve the public with our technical expertise, educational programs, and through our experimentation with and advancement of the radio art. We are the first to volunteer for our community events, parades, marathons, festivals, etc — events that happen on a far more regular basis than emergencies and disasters. Our interest in emergency preparedness and our resilient communica-

tions network make us an even greater asset when our community's sense of normalcy is shaken by disaster.

Finally, "Public Service" is a term that most amateurs can rally behind. "EmComm" has been a dividing term, and this does not help Amateur Radio. Public Service is an activity that any amateur can be part of, whether from their home directly helping their neighbors, or from the EOC working with local served agencies.

Some Things Change, Others Stay the Same

The shift to the term "Public Service" will

result in some changes here at HQ. The use of the term "EmComm" and its variants have been phased out of ARRL publications. As many have already noticed, the *Emergency Communications Handbook* is now the *Public Service Communications Handbook*. Later this year the *Introduction to Emergency Communication (EC-001)* course will undergo a major content update, as well as a name change for the course. Similar revisions to *Public Service and Emergency Communications Management for Radio Amateurs (EC-016)* will likely be done in 2015.

There are a few things that won't be changing, including Field Organization titles (such as Emergency Coordinator). Likewise, the Amateur Radio Emergency Service (ARES) title will not change.

The biggest change is the philosophy on Amateur Radio's defined role. We serve the American public — often through served agencies, though not necessarily — to help people regain a sense of normalcy when communications are disrupted or overloaded. Our service to the public includes all amateurs, not just a select few set apart by an acronym. On a day-to-day level we are active in the Amateur Radio Service and we are ready to serve when called upon.

Photos by Steve Sant Andrea, AGIYK.

Snohomish County (WA) ACS Supports Landslide Relief Effort

A large landslide that devastated the town of Oso, Washington, on March 22, prompted communications assistance from the Snohomish County Auxiliary Communications Service (ACS). The landslide crossed the North Fork of the Stillaguamish River and covered about 1 mile of State Route 530, cutting off access to the nearby town of Darrington and disrupting telecommunication services. Thirty-six deaths (as of April 14) have been attributed to the disaster so far. The search for victims continues.

Snohomish County ACS operates as a joint RACES/ARES service and works to be the single contact for all emergency communications at the county level. From its website: "Our goal is to provide one place for all our served agencies, which now include Snohomish DEM, county hospitals, and the Snohomish County Regional Chapter of the American Red Cross."

The ACS group provided communication from the EOC. ACS also staffed and operated from a command vehicle located in Darrington. A second vehicle was moved to the incident command post in the town of Arlington, which was staffed by dispatchers from 911 call centers, with Amateur

Radio support for the Incident Management Team.

After touring the EOC's radio room, Governor Inslee said, "It's interesting that they had a volunteer group that really has handled a lot of the communications." He added, "They have staffed the communications center so that you could have communications from Darrington across over to the Operations Center in Arlington, because the phones were down for 2½ days."

In an update, ACS Radio Officer Scott Honaker, N7SS, reported that a neighboring group, Emergency Services Coordinating Agency (ESCA) RACES, staffed the Red Cross Shelters for communications and is now working in a non-communications role to reunite victims with their personal effects found on the debris field.

One lesson learned during the disaster was the critical need to label everything. Some of the ACS equipment was lost during the event and there was an issue of old batteries being mixed in with new ones. "They [equipment and supplies] needed to be labeled for tracking purposes," Honaker said.



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.

2013 ARRL 10 Meter Contest Results

ARRL Affiliated Club Competition

Gloucester County Amateur Radio Club finished 70 out of 78 clubs

In the Local Club category, GCARC finished 27 out of 31 clubs

Information from the July 2014 QST Magazine

Road Trip

By Cory Sickles, WA3UVV

The ARRL National Centennial Convention is coming up July 17th ~ 19th. I'm planning on traveling up for a day, either Friday or Saturday. If anyone would like to share the ride, please let me know. For that matter, if there's a good response and we have other drivers available, let me know that, too. It's something we can discuss at the July 2nd meeting. I'll get an email out to everyone ASAP, with more information after the meeting.



ARRL National Centennial Convention

July 17-19, 2014 - Connecticut Convention Center, Hartford, CT

www.arrl2014.org

13 Colonies Special Event

INDEPENDENCE WEEK

JULY 1-6, 2014

CT-DE-GA-MA-MD-NC-NH-NJ-NY-PA-RI-SC-VA

2013 QSO Count!

81,141

2014 EVENT CERTIFICATE

★ **4TH OF JULY WEEK - 13 ORIGINAL COLONIES SPECIAL EVENT** ★

The 6th Annual:

Presented By The Original 13 Colonies Special Event Group - Independence week - 2014



K2A - NEW YORK



K2B - VIRGINIA



K2C - RHODE ISLAND



K2D - CONNECTICUT



K2E - DELAWARE

CONTACTS



CLEAN SWEEP



REVOLUTIONARY WAR ERA COLONIAL CURRENCY



W3PT



W0JPCN



K2J - NEW JERSEY



K2J - N.CAROLINA



K2K - N.HAMPSHIRE



K2J - S.CAROLINA



K2M - PENN.

THIS IS TO CERTIFY THAT ARS SAMPLE HAS PARTICIPATED IN THIS 4TH OF JULY WEEK SPECIAL EVENT, HONORING THE "13" ORIGINAL COLONY STATES AND OUR NATION'S INDEPENDENCE IN 1776. GOD BLESS AMERICA

KEN VILLONE - KJ2UIS: EVENT MANAGER *Ken Villone* 73



K2E - MARYLAND



K2G - GEORGIA



K2H - MASSACHUSETTS

www.13colonies.info

Tour de Pitman - Bob Riccio Memorial Bike Race Saturday, June 7, 2014

Some pictures highlighting communications support for the Tour de Pitman bike race



Monroe Township Memorial Day Parade Monday, May 26, 2014



The following GCARC members marched in the parade:

Dave MacDonald, WB3JOY, and his XYL, Linda
Wayne Welsh, WA2VOY
Tony Otlowski, KD2AFY

Tom Gorman, KE2ES, his son, Christopher, and 2
year old grandson, Matthew
Jim Quinn, KD2JEQ, and his XYL, Katie

For more pictures, please go to www.w2mmd.org under the Past Programs / Activities / Events page



Club House Update **By Ray Martin, W2RM**

Work Session, June 18, 2014:

The storm window in the HF room is now replaced. Frank Messick put down the dirt at the bottom of the skirting yesterday, he did a good job. Bill bought the 220 volt AC power cord for the stove. Nick installed it and it was put in place, everything works fine. The guys installed the range hood with light and fan over the stove. It works fine. The main table was cleared, the sheetrock and paneling was moved out of the way. The grass was cut this morning, the site looks nice. Sometime last week Sheldon Parker K2MEN rebuilt the front door frame and reinstalled the front door and fixed the siding around the door. Nice job !

Work Session, June 22, 2014:

Dirt was put down by Frank Messick W2FJM where the old center pole was & he will continue filling in the ruts. Dirt was leveled off for us by Wally of the 4-H. The back steps were strengthen up by Chuck Lanard KD2EIB & he put the left over paneling in the shed. Al Arrison KB2AYU continues the skirting with the dirt at bottom and the paneling in front of the trailer. Harry Bryant donated a 5,000 BTU air conditioner. It will be put in the kitchen area. Mark Gottlieb donated a stove and 2 lights. Sheldon, K2MEN rehung the front storm door. Frank, W2FJM, Dan, N2TXG, Wayne, WA2VOY moved dirt to fill in ruts and holes. The electricity in the VHF wall is completed. More work was done on that wall also. The front door kick plate was installed. The toilet paper holder and towel rack was installed.



Charles Sketchley, K2PQD, laughs with Mayor Barbara Wallace during a Gloucester County Veterans Award Ceremony at Cardinal Village Senior Living, in Washington Township, Wednesday, June 4, 2014. (Staff Photo by Joe Warner/South Jersey Times)

New Jersey Motor Vehicle Law Update: July 28, 2013

Cell Phone Use 39:4-97.3

Overview: Use of a wireless phone or communication device is unlawful except when it is being utilized "hands free".

Specifics:

1. Can only be cited on public roads/highways.
2. **Does NOT include Amateur Radio or Citizen Band (CB) Radios.**
3. **Does NOT include Two-way Radios by commercial vehicle driver's or emergency vehicle.**
4. One handed use of a cell phone while steering can be utilized if:
 - a. The driver fears for his life/safety or believes a criminal act may be perpetrated against him or another.
 - b. The driver is reporting a fire, crash, serious road hazard, HazMat, or Medical emergency.
 - c. The driver is reporting another who is operating recklessly, carelessly, in an unsafe manner or DWI.

Changes Made:

1. Fine for 1st offense is changed to \$200 - \$400.
2. Fine for the 2nd offense is changed to \$400 - \$600.
3. Fine for the 3rd and subsequent offenses is changed to \$600 - \$800.
4. 3rd and subsequent offenses may be subject to a license suspension for 90-days and assessed 3 points on their MV history.

Although signed into law, the changes will take effect on July 1, 2014.

Regional Hamfest and Events

July 5, 2014 : Firecracker Hamfest and Eastern Pennsylvania Section Convention Expo, Harrisburg Area Community College Fire Training Grounds, 3599 Industrial Road, Harrisburg, PA
Harrisburg Radio Amateurs Club - www.w3uu.org

July 6, 2014 : Wilkes-Barre Murgas ARC Hamfest & Computerfest, Luzerne County Fairgrounds, Lehman, PA, Murgas Amateur Radio Club - www.qsl.net/k3yt1

July 7 - July 13, 2014 : Captain Emilio Carranza Memorial Special Event Station N2M, Story at www.post11.org/carranza, Burlington County Radio Club - www.k2td-bcrc.org

July 12, 2014 : Mid-Atlantic Antique Radio Club Hamfest, Kimberton, PA, Fire Company Fair Grounds, Route 113 - www.marc-radio.org

July 13, 2014 : Sussex County Amateur Radio Club Hamfest, Sussex County Fairgrounds, 37 Plains Road, Augusta, NJ - www.scarcnj.org

July 20, 2014 : Maryland Hamfest and Computerfest, Howard County Fairgrounds, West Friendship, MD
Baltimore Radio Amateur Television Society - www.bratsatv.org

July 26, 2014 : Summer Swap Meet, InfoAge Science History Learning Center and Museum, 2201 Marconi Road, Wall, NJ, New Jersey Antique Radio Club - www.njarc.org

W1AW Portable Centennial QSO Party Operations in June

CALL	DATES	LOCATION
W1AW/3	06/25 - 07/01	Maryland
W1AW/9	06/25 - 07/01	Illinois
W1AW/7	07/02 - 07/08	Utah
W1AW/9	07/02 - 07/08	Wisconsin
	07/09 - 07/15	No Operations
W1AW/4	07/16 - 07/22	South Carolina
W1AW/0	07/16 - 07/22	Colorado
W1AW/1	07/23 - 07/29	Rhode Island
W1AW/9	07/23 - 07/29	Indiana
W1AW/4	07/30 - 08/05	Kentucky

ARRL Ham Radio License Exam Practice Website

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

July Birthdays

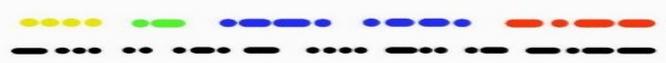
Congratulations to these members celebrating birthdays this month

Barry Ballurio KC2PHF
 Alex Calabrese WA2ADS
 Jerry Jacobus WB2QEF
 Chris Kelly KC2PC
 Dave MacDonald WB3JOY
 Phyllis Martin W2PDB
 Frank Messick W2FJM
 Art Strong K2AWS

Past Presidents:

Norman Connelly WW2NC
 Charles Olinda N2SRQ

John Kull WB2GKH SK
 John Logan KB2VSE SK
 Alan Trueblood N2FJQ SK



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 August issue: Tuesday, July 22, 2014

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

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

Contest Calendar

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

July 2014

+ RAC Canada Day Contest	0000Z-2359Z, Jul 1
+ NRAU 10m Activity Contest	1700Z-1800Z, Jul 3 (CW) and 1800Z-1900Z, Jul 3 (SSB) and 1900Z-2000Z, Jul 3 (FM) and 2000Z-2100Z, Jul 3 (Dig)
+ Venezuelan Ind. Day Contest	0000Z, Jul 5 to 2359Z, Jul 6
+ DL-DX RTTY Contest	1100Z, Jul 5 to 1059Z, Jul 6
+ Marconi Memorial HF Contest	1400Z, Jul 5 to 1400Z, Jul 6
+ Original QRP Contest	1500Z, Jul 5 to 1500Z, Jul 6
+ PODXS 070 Club 40m Firecracker Sprint	2000 local, Jul 5 to 0200 local, Jul 6
+ DARC 10-Meter Digital Contest	1100Z-1700Z, Jul 6
+ QRP ARCI Summer Homebrew Sprint	2000Z-2359Z, Jul 6
+ RSGB 80m Club Championship, CW	1900Z-2030Z, Jul 7
+ ARS Spartan Sprint	0100Z-0300Z, Jul 8
+ FISTS Summer Sprint	0000Z-0400Z, Jul 12
+ IARU HF World Championship	1200Z, Jul 12 to 1200Z, Jul 13
+ WAB 144 MHz Low Power Phone	1000Z-1400Z, Jul 14
+ RSGB 80m Club Championship, SSB	1900Z-2030Z, Jul 16
+ NAQCC Straight Key/Bug Sprint	0030Z-0230Z, Jul 17
+ DMC RTTY Contest	1200Z, Jul 19 to 1200Z, Jul 20
+ North American QSO Party, RTTY	1800Z, Jul 19 to 0559Z, Jul 20
+ CQ Worldwide VHF Contest	1800Z, Jul 19 to 2100Z, Jul 20
+ RSGB 80m Club Championship, Data	1900Z-2030Z, Jul 24
+ RSGB IOTA Contest	1200Z, Jul 26 to 1200Z, Jul 27

2014 Club Officers - 1 year term

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

Board of Directors - 3 year term

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

Trustees - 4 year term

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

Committee Chairs

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



The W2MMD Repeaters

Output: 147.180 MHz
Input: 147.780 MHz
Offset: +600 KHz - PL: 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, July 17, 2014
20:00 Hrs
147.180+ MHz (PL131.8Hz)

ARES/RACES Net

Sunday 20:00 Hrs
147.180 and 224.660 repeaters

VE License Session

Thursday, July 10, 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, July 2, 2014
Pfeiffer Community Center
301 Blue Bell Road
(Main Street and Blue Bell Road)
Williamstown, NJ

Board of Directors Meeting

19:00 Hrs, Wednesday, July 16, 2014
GCARC Clubhouse
Gloucester County 4-H Fairgrounds
235 Bridgeton Pike (Rt 77), Mullica Hill, NJ

Club Meeting Program

Wednesday, July 2, 2014

Field Day Recap

August W1AW/2 GCARC Event

GCARC 11:00 am Brunch

Every Friday @

The Seven Star Diner

1890 Hurffville Road, Sewell, NJ

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