



Presidents Message

We have had very sad news in the past few days with the passing of Jim Casto, N2IMH, and Doug Gehring, WA2NPD. We send our best wishes to both families. They will both be missed.

At the November Meeting we will have the final nomination of officers for 2013. The following were nominated at the October Meeting:

President- Tom Gorman	Vice President- Jim Wright
Treasurer- Al Arrison	Recording Secretary- Sheldon Parker
Corresponding Secretary-Cory Sickles	3 Year Director- Doug Gehring
3 Year Director- Gene Schoeberlein	Trustee-Mike Mollet

Nominations will be open from the floor at the November Meeting and a new 3 Year Director Candidate will be necessary to replace Doug Gehring. If you are interested in becoming an officer contact one of the current officers or have someone nominate you from the floor at the November General Membership Meeting. The election of officers will be held at the December General Membership Meeting.

Al Arrison, KB2AYU, would also like the Club's input at the Meeting on the possibly of replacing the existing trailer at the Clubsite with a newer trailer that has been offered to the Club. See Al's write-up on the trailer offer on page 6 of this issue of Crosstalk.

After the business part of the Meeting we have two programs, A DX Primer and LoTW Overview by Bill, W0MHK, and Dave, W2YC, respectively. These programs should be very interesting especially for those who are interested in getting more involved in these areas of our hobby.

Silent Keys

It with great sorrow that I report the passing of two Club members in the month of October. James Casto, N2IMH, was 74 and died on October 19 and Doug Gehring, WA2NPD, was 80 and died on October 24. Our condolences go out to the families of both Jim and Doug. Further information on each passing was sent out to Club members via email.

Down Jersey DXing

By Bill Grim, W0MHK

Our first autumn DX month of the year gave us some mixed propagation and activity as this is being written. Sunspots came in good numbers, but many disturbances to the earth's geomagnetic fields accompanied them. DX possibilities rose and fell rather drastically with those solar events. The TT8TT, Central African DXpedition to Chad, was active, but conditions were not helpful and their knowledge of when the bands were open to Down Jersey was often in question.

With solar flux at this moment above 150 (good news today!) it might be a good time to do something about working more DX. Weather is still favorable for outside work, and I would suggest that you seriously think about your higher HF band DX proficiency and usage, considering the potential upside of the solar cycle with 30, 17, 12 and 10 Meters. Most have recognized just how good 17 Meters can be as a DX band. But 10, 12 and 30 Meters should now be harvested for what they can do for your DXCC totals.

Can you "add on" some additional DX to your logs by adding on to presently deployed antennas or their anchor points? Would "piggy-backing" a 30 Meter dipole under your present 40 Meter or 80 Meter dipole help? Use 3/4" PVC to make 4" homebrew spacers to mount the legs of the antenna under your present one. No need for another coax run. Just connect the new dipole to your present feed point insulator. Your SWR might change a bit, but with some pruning and the help of internal transceiver tuner you can make the antenna work on both bands quite efficiently. Remember too that 30M can have the DX potential of its sister band 20 Meters! (Editor's note: Dipole arrays like those described above work better with some band combinations than with others. 40 meters paired with 20 meters is an easy combination. A little experimenting can lead to some great results. It is best to trim the highest frequency antenna wires first when you do this.)

My initiation to the WARC Bands consisted of scrap wire cut for the 3 bands and all fed on one run of coax. I basically "slapped" the center insulator below my tribander on a 15 foot roof tower. Arrange the legs in a six point equidistant pattern around the base of the mast you are using. Check for minimum reasonable SWR on each of the 3 bands while keeping the dipole legs spread a minimum of 90 degrees from each other and your rig should be ready to go on 3 bands. Even if you already have antennas for one or more of these bands presently, it sure is nice to make comparisons between antennas on the same band!

Adding 10 or 12 Meters can be done with a simple dipole (go for height as much as you can with these rather small antennas) or parking an old CB whip or base antenna on a tower, mast or anywhere convenient. 2 Meter verticals work well on top of our yagis, but so do old mobile 11 Meter whips. These antennas love the height and line-of-sight potential. I have a buddy in Millville who has a nice Vietnamese, Zone 26, confirmation from a QSO on 12M with just such a set-up with 100 watts during the last solar peak!

Use your imagination with what you have or can easily access and "add-on"! You would be surprised what you can do with some fairly simple antennas when the conditions are right and often even the best antennas can't help when conditions are poor.

Please see "DX on Page 3.

“DX” continued from Page 2.

How about "adding on" some of the following during your exploits on the bands in the month of November:

CALL	DATES	HIGHLIGHTS	5= MOST RARE	ENTITY
ZL7A	11/1-11/9	80-6M/CW,SSB,DIG	4	CHATHAM IS.
YJ0AFU	11/3-11/10	160-6M/CW,SSB	3	VANUATU
P29VCX	11/6-11/13	HF/DIFFERENT IOTAS	3	PAPUA
PJ4	11/9-11/17	HF	1	BONAIRE
3A	11/9-11/17	80-10M/SSB	2	MONACO
PT0S	11/10 -11/22	160-6M/LOW BAND FOCUS	3	ST PETER/PAUL
V84SMD	11/11-11/23	160-6M/ALL MODES/4-5 STNS	4	BRUNEI
VK9	11/17-11/27	160-6M/CW,SSB,DIG	3	LORD HOWE
7P8	11/23-12/3	160-10M/CW,SSB,DIG	2	LESOTHO
ZL9HR	11/28-12/9	HF/BIG TEAM EFFORT!	4	CAMPBELL IS.

CQ WW DX CONTEST 11/24-11/25

(SEE NG3K ADXO FOR PRE-CONTEST AND CONTEST POSSIBILITIES)

CREDITS: NG3K ADXO

Club Programs

By Jim Wright, N2GXJ

Our club is a general purpose radio club that attracts members with a wide range of interests. We welcome DX'ers, contesters, VHF enthusiasts, rag chewers, digital enthusiasts, do-it-yourself builders, tinkers, collectors, restorers, CW operators, QRP and QRO, those who like to work satellites and bounce signals off the moon, and, of course, those interested in emergency communications, community service, or in just learning more about amateur radio.

In addition to the premier activities we actively participate in each year (including Field Day, ARES/RACES, VEC testing, Hamfest, and providing communications support to local and community charity events), we also have an excellent line up of educational programs that we conduct as part of our regular monthly meetings. Visitors are always welcome at our meetings and programs! Come on out, pull up a chair, socialize a bit, and have some fun while learning from the best about a diversity of interests that are all part of our fantastic hobby! Programs so far this year have included:

- Do it yourself and home-brewing (with a QRP twist)
- The art of QSLing
- What is Software Defined Radio? (FlexRadio Systems)
- Man your battle stations! (Battleship New Jersey Amateur Radio Station)
- Digital HF: Join the fun!
- Pizza and swap shop night
- Radio direction finding
- VHF and up
- Emergency communications

Please see “Programs” on Page 4.

“Programs” from Page 3.

In addition to these programs, we’ve also had the chance to sneak in a couple of special club events. For example, one weekend our Club was invited to visit and operate as guest radio operators on board the Battleship New Jersey. And who can forget the half dozen carloads of crazy hams with portable radios and antennas that we had crisscrossing Gloucester County trying to find Gary “foxy” (WA3SVW)?

The Club meeting on November 7 will feature a great evening of two programs with a common theme entitled A DX Primer and LoTW Overview. Accomplished DXers both, Bill, W0MHK, and Dave, W2YC, share the evening as guest speakers to introduce these related topics.

As the author of the Crosstalk column “Down Jersey DXing”, and with the incredible distinction of having achieved 10-band DXCC, Bill will roll some of his knowledge and experience into a “DX Primer”, to help some of us less experienced operators get on the right path to catching some good ones. Dave, as the first person in the world to be awarded the ARRL’s Triple Play WAS Award (1/15/2009), knows a thing or two about getting fast QSL confirmations using ARRL’s Logbook of The World (LoTW) system. Dave will summarize his experiences, and provide pointers on the setting up and use of LoTW for the benefit of those not that familiar or comfortable with the LoTW system.

Have you noticed the 10 meter band openings of the past week? Technician class operators, if you’ve got 10 meter HF capability, take an upper sideband listen between 28.3 and 28.5 Mhz mornings between 9:30 and 10 AM. You might be surprised by what has been out there! General class and above, have you ever ventured up to 29.600 Mhz? When the 10 meter band seems busy, flip your radio from USB to FM and pay this magic simplex frequency a visit. Your trip towards the top of the 10 meter band may be rewarded!

And ahead of the November 7th meeting, don’t miss out on the CQ world-wide sideband voice contest on the weekend of October 27 (details at cq-amateur-radio.com). This is a great chance to get some radio hunt-and-pounce experience, and to maybe pick up a few new Caribbean callsigns for your log!

The program for December is titled, “What I like about Ham Radio”. Following the Club officers elections, the agenda for this evening is a relaxed, informal, and popular program where Club members have the opportunity to stand up and share a few words about how they first got interested in ham radio, and what they like most about our great hobby today.

What “sparks” your interest? We would love to hear from you!

Fox Hunt

By Jim Wright, N2GXJ

Did you miss the first one? Well, here’s your chance to jump on in and give it a try again! Building on the fun and adventure from our first mobile T-hunt back in August, RADIOSPORT returns once again to the Gloucester County ARC! (from the w2mmd.org web site, see the “club programs and events->past programs/events->GCARC Fox Hunt” for some photos and list of winners)

What? GCARC Mobile T-Hunt club event! Driving, Navigating, RDF activity, all in one. When? Sunday November 11, 1-3 PM Who? You! Partner up with a designated driver and have some 2 meter radio fun! Non-ham friends welcome to come along for the adventure too!

Please see “Hunt” on Page 5.

“Hunt” from Page 4.

How does it work? Our grand champion fox hunter from our first outing is now the radio fox that we will try to find on this hunt. Who will find him first?

Teams start from anywhere within Gloucester county with access to our 2M repeater. Teams check-in with the hunt coordinator (Jim N2GXJ) on our 2M FM repeater (147.180+, PL 131.8) at 1pm. After we know who’s hunting, the fox will ID on the repeater, and then QSY to the designated simplex fox hunt frequency. For this event, the primary frequency will be 146.565 FM (different from our first hunt). The fox will be parked in a publicly accessible place (no private property), somewhere within the central part of our Gloucester County (see page 27 of the Radio Direction Finding presentation posted at w2mmd.org on the “club programs and events->past programs/events->Radio direction finding“ tab for a boundaries map, and some helpful T-hunt techniques). As in our first hunt, every five minutes or so the fox will ID and transmit on the hunt frequency for about a minute, giving the hunters a signal to home in on. The hunters do their best to find the fox, using whatever radio direction finding techniques seem to work best for them. The hunters leave the simplex hunt frequency open for fox transmissions, coordinating with each other on our 2M repeater frequency. The fox will give better clues if any teams are still searching after an hour (2pm), and will talk-in any teams still searching after an hour and a half (2:30pm). Socializing and sharing of hunt stories at the finish line! Hope to see you there!

License Quiz

By Jim Wright, N2GXJ

Ok, so two months ago we had a program on VHF and up. And, as mentioned in this edition of Crosstalk, during the first weekend in November, we are having a special Club event out at the Club trailer to try some moon-bounce radio communications (Earth-Moon-Earth). Here are a couple of questions from the new Extra license pool to tickle the noodle related to these topics. (Answers, along with the full question pool, are available free of charge at the official web site www.ncvec.org) Good luck! Let’s see how good you do!

1) What is the approximate maximum separation measured along the surface of the Earth between two stations communicating by Moon bounce? [E3A01]

- A. 500 miles, if the Moon is at perigee
- B. 2000 miles, if the Moon is at apogee
- C. 5000 miles, if the Moon is at perigee
- D. 12,000 miles, as long as both can “see” the Moon

2) What type of receiving system is desirable for EME communications? [E3A04]

- A. Equipment with very wide bandwidth
- B. Equipment with very low dynamic range
- C. Equipment with very low gain
- D. Equipment with very low noise figures

3) What characterizes libration fading of an Earth-Moon-Earth signal? [E3A02]

- A. A slow change in the pitch of the CW signal
- B. A fluttery irregular fading
- C. A gradual loss of signal as the Sun rises
- D. The returning echo is several Hertz lower in frequency than the transmitted signal

Please see “Quiz” on Page 6.

“Quiz” from Page 5.

4) When scheduling EME contacts, which of these conditions will generally result in the least path loss? [E3A03]

- A. When the Moon is at perigee
- B. When the Moon is full
- C. When the Moon is at apogee
- D. When the MUF is above 30 MHz

5) How does JT65 improve EME communications? [E2D12]

- A. It can decode signals many dB below the noise floor using FEC
- B. It controls the receiver to track Doppler shift
- C. It supplies signals to guide the antenna to track the Moon
- D. All of these choices are correct

New(er) Trailer for the Clubsite

By Al, KB2AYU

There are not many amateur radio clubs that can say they have several acres of ground and a Clubhouse available to their membership. This fact seems to be lost on most GCARC members and maybe the newer members don't even know about it. In any case, for whatever reasons, the Clubsite has been under-utilized for many years. I and many other Club members have done a lot of work out at the Clubsite over the years to try and keep it going. The existing trailer was already old when it was put there in 1987 and that was 25 years ago. It is obvious that it really isn't worth putting any money into repairs on a trailer this old.

Club member Marty Wilt, W2ILT, has come across a once in a lifetime deal on a possible replacement trailer for the Clubsite. The trailer is not perfect, but it is in much better shape than the one we have now. It is about the same size as the existing trailer, approximately 60' X 12' and has a shingled peaked roof, rain gutters, and vinyl siding. The interior is in good shape and includes a kitchen and two bathrooms. It is certainly more worthwhile to put money and effort into this trailer than the existing one. The good news is that it is FREE! And it is located relatively close by. The bad news is the current owners want it off their property immediately.

Marty and I are going to try to come up with some options and dollar amounts for making a trailer swap by the November Club meeting. At a minimum the trailer would have to be towed to our site ASAP even if the actual swap doesn't occur until next year. We will also have to remove the existing trailer and check into siting requirements and necessary permits.

If we can do this for a reasonable amount, we could have a Clubhouse to really be proud of. It would be more likely to be utilized and would have an access system to allow all Club members easy access at any time.

This is by no means a done deal. We have to come up with dollar amounts for all the costs associated with the project. Of course, the more work that can be done by Club members, the lower the costs will be. The Club membership has the final say on whether or not to approve the project.

I doubt we will ever come across a deal like this again. Come out to the November Club Meeting to discuss and possibly vote on this project.

EME (moonbounce) attempt at the Clubsite

By Al, KB2AYU

The first weekend of the ARRL International EME Contest is the weekend of November 3-4. I will be attempting to work the big guns using the digital mode WSJT. Since our antenna cannot be elevated, we will only have an hour or so of operating time at our moonrise and moonset. The start times are as follows:

11/3 00:46Z (Friday night local)
11/3 15:30Z (Sat afternoon local)
11/4 01:39Z (Sat night local)
11/4 16:10Z (Sun afternoon local)

Anyone is invited to stop by. Call the Clubhouse first to make sure someone is there. The number is 856-478-4738.

VEC Testing

Regular VEC testing sessions are scheduled for the second Thursday of the month at 7:00 PM and are held at the Franklin Township Public Library on Coles Mill Road in Franklinville. The cost of the exam is \$15. Candidates are required to have a photo ID and two copies of their current license if they have one. For further information on VEC testing or to sign-up for a session contact Gary Reed at 856-582-4365 or at glreed49@verizon.net.



Fox Hunting Crew August 2012

One Giant Leap for a Man...

By Cory Sickles, WA3UVV

Faster than a speeding bullet, less powerful than a locomotive, able to flay to the edge of space – it's a capsule, it's a balloon, it is Felix Baumgartner! In case you missed it, on the morning of October 14th, (65 years to the day that Chuck Yeager first broke the sound barrier in an X-1 rocket plane) “Fearless Felix” was lifted in a sophisticated capsule by a helium balloon to an altitude in the “Edge of Space” category. A moment seven years in the making, he stepped outside onto a small step, disconnected his umbilicals and with just 10 minutes of oxygen available, leaped toward the earth from a height of 128,097 feet. He set records for the highest manned balloon flight and the fastest speed – Mach 1.24 (that's fast!)

His freefall lasted 4:22 minutes, which still left the longest freefall record to his mentor, Colonel Joe Kittinger. Kittinger held the highest and fastest records for decades, having gone up in several, less-sophisticated, open-air cages in the late 1950's. Although there were others that tried to best his flight, they did not survive. Baumgartner's fall was not without a “hold your breath” moment. After some time had elapsed, he went into a flat spin, which could have caused a “red out”, with resulting unconsciousness and possible death. Although the event was streamed “live”, it was actually on a 20-second delay and the feed was switched to a “safe shot” for several seconds, until he was able to regain control and stability in his fall. Just another example of human skill being more important than the hardware.

This was more than a mere stunt by a company wanting to sell more energy drinks. Although incredibly impressive, the Red Bull Stratos Project provided some real science. A new space suit design used for this mission is destined to help NASA, USAF and private concerns with crew survivability in high-altitude escape scenarios, possible in the future. Although it may sound far fetched today, the data gathered from calculated risks such as this may eventually allow orbital re-entry without the need for a spacecraft. In recent years, we've seen the success of a rocket plane that achieved sub-orbital flights - rivaling those of Alan Shepard and Gus Grissom – while re-entering without the need of a heat shield, by virtue of a unique folded wing design. As the well-developed “Star Trek” franchise has taught us, today's science fiction is tomorrow's reality.

“The Pre-Astronauts” is an insightful book, written by Kittinger. It details the high-altitude flight programs, plus rocket sleds and other “pushing the envelope” experiments” in the years leading up to the Space Race of the 1960's. I suggest you pick up a copy.

Oh, in case you're wondering, there was an APRS package onboard the capsule. However, it stopped updating after about 92,000 feet. Also, the settings used at low altitude remained in effect at high altitude, causing it to tie up the network for hundreds of miles...

Finally, October also marked the 55th anniversary of the launch of Sputnik I, on the 4th. While Hams throughout the world heard the lower beacon just above 20 MHz, people throughout the world saw the booster housing (the actual satellite was too small) reflecting sunlight on certain passes. In the Cold War era, a Soviet presence in space fed imaginations to some scary propositions. Thus, the Space Race began with an incredibly ambitious goal of reaching the moon.

Many theorize that if the United States had launched the first satellite, the Mercury, Gemini and Apollo missions might never have become reality – at least for many years to come. Given the technological breakthroughs that came out of those efforts, the whole “Sputnik thing” worked out pretty well for all of us...

In Other News

By Cory Sickles, WA3UVV

While typing this, hurricane Sandy has moved across eastern Cuba and is heading up the coast. It may possibly impact NJ, but let's hope not.

We're also supposed to have a harder winter than the last one. Make sure you are stocked up – at all times – and have your batteries charged. Hams should be among the minority group that don't panic when bad weather is looming, unlike the great masses in this area that descend on grocery stores like swarms of locusts – raiding the shelves for milk, eggs, bread and toilet paper. I've lived in South Jersey since 1985 and I still don't know what the fascination is with making French toast...

Also, you may have heard “something” about there being an upcoming election. Unless you've already used an absentee ballot in advance, please make sure you get out and vote. Whether you vote for Willard (middle name Mitt), Barack (who seldom uses his middle name) or someone else - your votes are important. There are people who have sacrificed body parts and their very lives to ensure that democracy lives – here and throughout the world. The least that each of us can do is exercising such rights.

Finally, as we gather on the 4th Thursday this month (November), take a moment to be thankful for the happiness you have and for the sorrows you don't.

Another New Toy

By Cory Sickles, WA3UVV

It's not that I “need” another QRP rig, but I've been missing my 30M QRP rig (MFJ-9030) that I sold some months ago. Instead of searching for another one, or just getting one of the popular 2-band radios being sold, I decided to explore MFJ's new 9200. This is a semi-multiband rig, capable of 8 watts or so, when driven with 14V. As voltages go down (bottoming out at 8V) the transmitted power is less. Feeding it with 12V will give you a “QRP legal” 5W.

The 9200 comes with 1 band module, available for 80M, 40M, 30M, 20M, 17M and 15M. To change bands, you have to open the case and swap out the module. If you are interested in operating during the day, then 30M and up are good choices. It sports a digital VFO, with an RIT that can travel far enough to behave like a second VFO, if needed. You can also program in memory frequencies and your call, so that just a push of a button generates a CQ. Although there's just enough room to place a battery pack inside of it, I wouldn't recommend it. Better to leave such things outside. The CW filter is good, but the narrow filter for the 90xx-series is better.

Current drain is only 40ma while receiving. If you turn on the backlight, it jumps to 100ma. If you are going to use it portable, then keeping the backlight off is a good idea. Either way, it pulls a battery down much slower than my Yaesu FT-817ND. In fact, a salvaged 7AH alarm battery gives me a couple days of operation, although I'm a bit more QRP at the end, than I was at the beginning.

The receiver is fairly sensitive and compares well with my regular HF gear. Transmitter-wise, reports are of a clean and stable note, unlike my HW-7's distinctive “chirp”. I've been traveling quite a bit this summer and have taken the rig with me on some domestic trips, to help kill “down time”. Even with just a wire strung around the hotel room, I've made some good contacts. The only “mod” I've made thus far is Please see “New Toy” on Page 10

“New Toy” from Page 9.

replacing the tuning knob with a slightly larger one, that also helps me approximate a “spinner”, something you’ll notice in the picture.

There’s a good review of the rig in the April 2012 issue of “CQ”, plus I cover MFJ’s excellent (for me, at least) customer service response when I had a problem - in the upcoming December 2012 issue of “World Radio Online”.

If you are looking for a lightweight rig to operate portable or when traveling, this is a good choice. A small battery (or power supply), end-fed tuner, wire, headphones and key/paddle round it out. Depending on your choice of power source, the whole thing can fit in a CD player soft case. The MFJ-9200 retails for \$249, including your band of choice. The additional band modules are \$29 each. It’s small enough to make a nice “stocking stuffer”...



New MFJ 9200 QRP Rig

November Birthdays

Congratulations to these members celebrating birthdays in November.

Fr. Brian Burgess, KD4UTL
Robert Durham, W2RAD
Russel Glans, N2ASV
Ted Keifer, N2EBB
Howard Marder, WA2IBZ
Ray Martin, W2RM
Cory Sickles, WA3UVV
Martin Wilt, W2ILT



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 Gene Schoeberlein at aa2yo@arrl.net.

Submission deadline for the December issue: 11/26/12

Club Website

<http://www.w2mmd.org>

President-Tom Gorman, KE2ES
Vice President-Jim Wright, N2GXJ
Treasurer-Al Arrison, KB2AYU

Doug Gehring, WA2NPD
Art Strong, K2AWS
Chuck Colabrese, WA2TML

Ray Schnapp, WB2NBJ
Mike Mollet, N2SRO

ARES/RACES-Gary, N2QEE
Awards-Kenny, W2KRD
Budget-Al, KB2AYU
Clubhouse Site-Al, KB2AYU
Club License Trustee-Darrell, AB2E
Constitution-As needed
Contests-Ken, W2KRD
Crosstalk-Gene, AA2YO
Database-Ken, N2CQ
DX-Bill, W0MHK
Field Day-Vinnie/Bill, N4NYY/NJ2S
Hamfest-Vinnie/Bill, N4NYY/NJ2S
Historian-Art, K2AWS

GCARC Officers

Recording Secretary-Sheldon Parker, K2MEN
Corresponding Secretary-Cory Sickles, WA3UVV

Board of Directors

Gene Schoeberlein, AA2YO
Gary Mirkin, WA3SVW
Dave MacDonald, WB3JOY

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Cory Sickles, WA3UVV
Martin Wilt, W2ILT

Committees

Hospitality-Dave, WB3JOY
Membership-Cory/Ray, WA3UVV/WB2NBJ
Nominations-Tom, KE2ES
Programs-Jim, N2GXJ
Publicity-Cory, WA3UVV
Repeaters-Tom, KE2ES
4H Liaison-Cory, WA3UVV
Special Services, Darrell, AB2E
Sunshine-Ray, W2RM
Technical/TVI-Cory, WA3UVV
VEC Testing-Gary, N2QEE
Website-Jeff, KC2WCS

The W2MMD Repeaters

147.78/18 Mhz-Pitman
(CTCSS 131.8Hz)

223.06/224.66 Mhz-Sewell

447.1/442.1 Mhz-Pitman
(CTCSS 167.9Hz)

1272.4/1284.4 MHz-Pitman

GCARC Meetings

General Membership

7:30 pm 1st Wednesday every month
Pfeiffer Community Center
Williamstown, NJ

Board of Directors

7 pm 3rd Wednesday every month
GCARC Club site
Harrison Twp. 4H Grounds
1 mile south of Mullica Hill on RT77

Nets

GCARC 2 Meter Net
Third Thursday of the Month
8:00PM
147.78/18Mhz (PL131.8Hz)

ARES/RACES
Sunday 20:00 Hrs
(147.78/18 and
223.06/224.66
repeaters)

November Meeting

A DX Primer and LoTW Overview
With Bill, W0MHK, and Dave, W2YC

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

