

The Pileup

Newsletter of the CDXA

CDXA Barbecue—2004 Style

Yeeeeeeee...Haaaaaaw ! Put on your chaps and spurs and c'mon out for the CDXA BBQ. We're moving the venue again this year. No, it isn't a fox hunt—it's just a way of spreading the hosting around a bit and making the location closer to some (and farther for others) in the hopes of attracting some "new blood". Yes, someday it will be even near you, if it isn't this year.

Gary and Carol Dixon will be hosting the Barbecue this year at their Fort Mill home. Rick Porter (AA4SC) will be handling the catering chores again this year, and for those who were present last year, you know that's a treat.

W4VHF	Ted Goldthorpe	President
N4HN	Tom Wright	Vice-Pres.
K4SQR	Jim Miller	Sec.-Treas.
K4MD	Joe Simpkins	Cluster Mgr.
W3GQ	Paul Sturpe	Assoc. Cluster Mgr.
WB4BXW	Wayne Setzer	Webmaster
K8YC	John Scott	Editor

Date: Saturday, October 9, 2004
 Time: 5:30 PM → 9:00PM (Dinner served at 6:30 PM)
 Place: Gary and Carol Dixon's QTH
 1606 Crescent Ridge
 Fort Mill, SC 29715

Dinner: BBQ with all the trimmings served at 6:30 PM
 Dessert: Each family bring your best dessert, potluck style
 Drinks: Soft drinks, beer and wine provided
 Cost: \$10.00 per person
 RSVP: Tom Wright (n4hn@arrl.net) before October 5 with the number in your party

Directions: I-77 Southbound to Exit 85, then eastbound on Highway 160 through Fort Mill center city (about 3 miles). When east of city center about one mile, turn right on Hensley, then after about 0.1 mile, left onto Williams. On Williams, travel approximately 1 mile, turn left on Apple Tree Lane, then look for the first right which is Crescent Ridge.

"We'll keep the light on for you."

CDXA PacketCluster & Other Communication Systems		
W4DXA (11 mi. NE of Mooresville)	144.93 MHz (1200 bits/second)	441.00 MHz (9600 bits/second)
K4MD Charlotte, NC	144.91 MHz (1200 bits/second)	441.075 MHz (9600 bits/second)
CDXA Repeater 147.18 MHz (+600)	W4DXA, Near Fort Mill, SC	
World Wide Web Homepage	www.cdxa.org	
Wednesday Luncheon (11:30 AM)	Shoney's, 355 Woodlawn Road, Charlotte, NC (704-525-4395)	

Lend a Hand for Peter I Island

In the August 2004 issue of The Pileup you learned the Carolina DX Association was supporting the upcoming DXpedition to Peter I Island by matching, up to \$500, the amount contributed by the membership. The goal is to be able to provide financial support of at least \$1000 to the Peter I DXpedition, callsign 3Y0X, and by doing so, have our association recognized on the QSL card. An insert in the middle of this edition, courtesy of QRZ DX issue of 1 September 2004, provides a news release for Peter I. .

The deadline for contributions is September 15, 2004. To date, the contributions amount to \$245. Please lend your support to ensure 3Y0X gets on the air in January, 2005. Checks only, please, payable to CDXA and sent to: Jim Miller, K4SQR; 11600 Hilda Court; Charlotte, NC 28226.

Welcome New Member

Welcome to our newest member, Elaine Thorp, N4EHT. Elaine lives in Clinton, SC and tells us she loves chasing DX. She's learned how nifty it is to be able to visit Gary Dixon to have her QSL cards checked, especially because she earned DXCC on her first submission. I hope she didn't think she had to possess a DXCC certificate to call herself a DXer, but she's got the right connections now as a member of CDXA!

She has a TA-33 antenna mounted well over 50 feet high and reaches out pretty well. Yet she's already planning some antenna additions now that she's tasted of the DXers nectar. Welcome, Elaine!

The Pileup

Official Newsletter of the Carolina DX Association
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Published monthly 10 times per year, excluding the months of June and December.

The purpose of the association is to secure for the members the pleasures and benefits of the association of persons having a common interest in Amateur Radio.

Members of the CDXA shall adhere to "The Amateur's Code" as published from time to time in *The ARRL Handbook for Radio Amateurs*, and shall consist of those valid licensed amateur operators having an interest in promoting amateur radio. Long distance communications (DX) is of special interest to members of the association, but said interest is not a requirement of membership.

Dues are \$30 per year for those using the PacketCluster maintained by the Association, \$15 otherwise, payable each January. Dues are payable by check to the Secretary/Treasurer:

Jim Miller, K4SQR
11600 Hilda Court

African DXpedition By CDXA Team

Joe Blackwell, AA4NN, and Chuck Gray, W4GMY, will operate from two separate CW stations in Swaziland November 17-22, 160m to 10m including WARC bands, using callsigns 3DA0NN and 3DA0CG, respectively. Beginning November 24 they will set up a station in Mozambique for 160m to 10m in preparation for a multi-single effort in CQWW CW using a callsign yet to be assigned.

Chuck and Joe may still be looking for "a few good men" (must be CW operators) to join them for the CQWW CW contest. If you are interested, contact Joe (aa4nn@earthlink.net) or Chuck (w4gmy@msn.net) as soon as possible. Both Joe and Chuck have been on African DXpeditions in the past two years, so I guess they both liked what they found on their earlier visits. A real adventure!!!

Rock Hill Hamfest on the Radar

The York County Amateur Radio Society invites you to the Rock Hill Hamfest on October 2, 2004. You'll find the fun at the ROCK HILL AMERICAN LEGION HALL. The Legion Hall is located on Cherry Road approximately 3.8 miles south of I-77, South Carolina exit 82B.

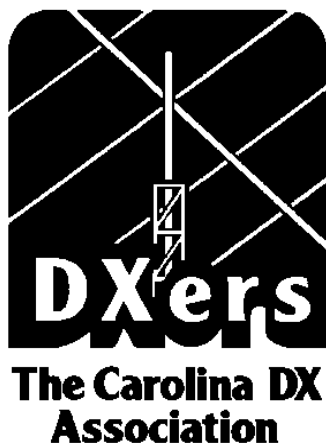
The hamfest features ARRL and other forums, VE Testing, a large, paved flea market area and large indoor commercial dealer space. Door prizes include a 2-meter mobile and 2-meter handhelds among other prizes. Talk-in frequency is 147.030 (-600kHz). Contact name given for questions is Bob Bacharach, WA2EMF.

Going Home Again

By Paul Ponak, AD4IE

While making a visit to my home town of Easton, PA, I decided to take a nostalgic trip to the site of my first amateur radio contest. In June 1964, our RACES group decided to combine a survival mission with the VHF contest. We set up at this pavilion at Hackett's Park, which overlooks Easton and other areas of the Lehigh Valley. Some of us in the active group had earned our amateur licenses so that we could use the Gonset Communicators after our regular monthly drills were over. Our mobile units had a Communicator on the front seat

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The Pileup

Second Front Page

SEE WHACK (CWAC) 2004

By: Paul Sturpe, W3GQ

It is that time of the year to start thinking about our Contest Within A Contest. Once again, our club will be offering incentives to our members to participate. Mark your calendar for this year's dates.

CQWW-SSB
OCTOBER 30-31

CQWW-CW
NOVEMBER 27-28

We have not yet decided what the prizes will be this year. We are going to give you a chance to make suggestions. What would encourage you to participate? What would encourage you to put more effort into the contest this year? Remember the objective, we want to make a respectable showing in the National rankings. So, drop me an email (sturpe@charter.net) or call me (828-478-3650) with your suggestions for prizes.

We expect to give prizes for at least the following categories:

- ◆ First place DXpedition *
- ◆ First Place – (Combined SSB & CW)
- ◆ First Place – SSB
- ◆ First Place CW
- ◆ Other Prizes will be announced next month (after receiving your suggestions.)

* To be eligible for the DXpedition prize, you must meet the CQWW DX Contest's rule X.2. We will consider the number of points contributed toward the club's score to award this special category.

Although last year's point count was down from the previous year, our ranking was better. Remember we are on the downside of the sunspot cycle. Keep that in mind during this year's contest if you are struggling to match or exceed last year's score. Your actual score may be lower, but your relative score may be higher. Here are our official results for the last five years.

Year	CDXA Score	National Ranking
1999	8,380,897	27
2000	12,494,946	22
2001	15,813,137	17
2002	17,364,657	20
2003	15,383,214	19

Want to earn DXCC in a weekend and try your hand at contesting? CQ Worldwide is the contest by which to do so!

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plugged into the lighter socket and suction mounted 2 meter ground plane antennas on top of the car. Back then we used to play hide and seek after our regular drill by having one unit designated as "it" while the others tried to track him down. It was something like fox hunting today, but "it" kept moving around in one area of town. More often than not, "it" was the group that managed to get ahold of some beer.

For our contest operation K3SUH, Robert, worked 6 meters with his own rig and antenna and I, then KN3VKI, worked 2 meter AM with one of the Gonsets. The other fellows logged and helped out with the equipment. I should all mention that we were all just graduate high school seniors except for our communications officer, Jim, who was a WWII vet. Jim decided he was going to re-live his Army days by dressing up in some fatigues and he got a cot to sleep on for the night since he wasn't a radio operator.

The "survival" mission was actually a lot of fun. The plan was for us to subsist on World War II ration kits that had been packed away in air raid shelters and were reaching their expiration dates. Each kit consisted of a few crackers, a product that was supposed to be hot cereal but had the taste and texture of sand, a pack of 4 cigarettes, and the rest really wasn't worth remembering (nor edible). Luckily my parents owned a luncheonette and drove up to see us after closing the store on Saturday night. They took pity on us and went back to the store to load up with Tastykakes (a Yankee staple), more cigarettes and other assorted items. After dark they drove back up the hill part way and a few of our group met them and sneaked our "supplies" up to the hilltop after our leader was fast asleep in his cot.

The picture below was taken from the pavilion area look-



Though more than 30 years have passed, the pavilion used for our "bivouac" remains largely unchanged.



I can still see "Officer Jim" sleeping on his cot over in the corner, just as if it were yesterday.

ing out over my old home town of Easton and the Lehigh Valley. The mountain on the far side is part of the Blue Mountains—part of the same Appalachian range that we have in North Carolina. Memories...



Logbook of The World—One Year Later

In September, 2003, ARRL announced that Logbook of the World (LoTW) was a reality. Now, one year later, it is appropriate to take a look to see how well it is meeting expectations. Your editor sent a broadcast email message to all members asking for comments. What follows is a synopsis of the comments from about a dozen members.

Ease of Use- Since the survey asked to comment on one's "experience" with LoTW, many commented on the setup and loading of their QSO records to the sys-

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tem. There was not a single complaint about the clarity of instructions or the process itself. Those responding ranged from programming professionals to those who barely know where an “Escape Key” is on the keyboard. Remarkably, there were several very favorable comments on how well ARRL had done on documenting the setup process.

QSL Matches Achieved- Matches achieved seems to be a function of whether your QSOs are from domestic or foreign sources and whether you have a lot of contest QSOs compared to regular DXing activity. Getting your security key if an American ham is straight forward. If you’re on the FCC database and request a key via email, the password is sent via conventional postal service to your registered FCC address and you can complete the process of getting your security key. It is a little tougher for the International amateur who must provide proof of his licensing via conventional mail. It is difficult to say whether some International amateurs have sensitivity to sharing a copy of their station license with the ARRL, even though the intent is to ensure the integrity of the DXCC award. Yet, experience of many is that International participation is catching on—delayed perhaps by the somewhat longer time to complete the registration process.

A number of respondees to the survey commented that contesters seem to like using LoTW. We can only surmise that QSLing is viewed as a necessary requirement of running a big contest station, but not one of their favorite activities. At least one response stated that some specialist groups, like RTTYers seem to be enthusiastic users of LoTW, and this is probably because RTTY software often has built-in computer logging capabilities, making log submission a simple additional step.

If you’re not using a computerized logging program, preparing your logs in computer readable form can be a daunting task. Most logging programs have features to make LoTW submissions easy. Contesters among us generally can easily convert logs from programs such as CT or NA to the appropriate ADIF format for submission to LoTW. Bob Burton, N4PQX, was one, who after loading all his contest logs from CT, completed the process of entering all his paper log data. He now has over 11,600 QSOs on file and reports almost 700 QSLs confirmed. Steve Sullivan, KZ2I, reports he has over 41,700 QSOs loaded with about 2500 to be entered from

remaining paper logs. He has almost 1800 QSL matches from 108 countries and 34 zones. However, slightly over 1,000 of his QSLs came from stateside stations worked during sweepstakes.

A number of DXpeditions are starting to put their logs on LoTW, but only after most manual QSLing is completed. Some of the DXpeditioners in our midst suggest that QSLing is often a source of needed contributions arriving with QSL cards which help defray expedition expense. DXpedition operators will probably be reluctant to soon turn their backs on this important source of funding. Then, again, who among us doesn’t enjoy going back over all those rare QSLs we’ve earned along the way towards our improving status in DXCC. Don’t expect paper QSLs to go away soon.

One really nice feature, available for the first time, is that LoTW can be linked to your DXCC credit record. Some caution is needed here, however. Separate logs generally should be entered for each location you’ve operated from, or each callsign you’ve held, especially if from different states, and certainly if from other than the continental USA. Your editor has linked logs from two callsigns he has held for all QSOs originated from North Carolina. The DXCC award is for a specific entity operating to all other entities of the world, so for a log entry to “count” it should only be for a QSO originated from continental USA. Awards like VUCC and WAS have not been linked to LoTW as yet. It is unclear whether LoTW can be used for the an award like WAS if one has merged all records from the USA including operations in different states. Fortunately, the ARRL in LoTW provides much on-line guidance when contemplating merging your log data and encourages you to call on them for guidance if you have question of any kind.

When you’ve completed the linking of your LoTW records, you can enter the “AWARDS” portion of LoTW and see a view of your DXCC credit record and a picture of which QSLs from LoTW can be applied to individual band endorsements or to the DXCC Challenge award. This is really a nice feature.

Encountered “Hitches”- Most experiences reported were free of error. However at least two “gotchas” were noted. One such cited incident is the importance of saving your security key on a removable media from your computer in the event you have a hard drive crash.

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If lost for any reason, you may be forced to go through the reapplication process for a key, and I'm sure the ARRL will have to do some maintenance at their end to link your new key to the formerly submitted records. Shortly after turning up LoTW, ARRL highlighted the need for key safekeeping because of some problems with early signups. So, beware!

At least one person cited the fact that he was a Linux user and that the TQSL software used for LoTW only ran on Microsoft Windows operating systems. It is not clear whether ARRL gets enough call for support for different operating systems to warrant creating different versions. It is believed that one could bring his/her key and TQSL software to another's Windows machine, install the software, "sign" the logs, copy the signed logs to a removable media and thence uninstall the software and key. A bit "kludgy" to be sure, but it gets the job done.

One other user commented that the software is "forgiving". An aborted upload due to a dial-up connection resumed and completed satisfactorily. In earlier discussions with Wayne Mills on the inner workings of LoTW, your editor learned that all "signed" logs are accepted, whether they include duplicates or not, thus explaining the "forgiving" nature of aborted uploads. Apparently, the cost of mass storage is so inexpensive that it is more cost effective for LoTW to accept duplicate QSLs than to try to weed them out during the upload process. Even though sending a full log to date on each submission will "work", it is preferred that submissions be made only for incremental updates after your initial upload of your logs.

What's in the Future?- As of 1 September, over 50,136,500 QSO records have been entered into the system resulting in over 1,737,000 QSL records. Users number 7,869 and they have requested 11,058 certificates (keys). The number of log files processed is 65,685. In recent months, it appears as though more International users are signing up for LoTW. A call to the ARRL confirmed that the future will permit awards such as WAS and VUCC to be included in LoTW. In past presentations by ARRL staffers, there have been indications that awards such as CQ Magazine's WAZ may rely on LoTW data for completing award requirements.

In this transitional period, ARRL has made it easy to submit QSL data from both paper QSLs and LoTW

QSLs as a related submission and have them count as a single submission. A submission always has been based on the calendar year, and, at least for domestic members, the first submission each year costs \$10 and the second \$20. In a conversation with Bill Moore on 2 September, for the remaining part of 2004, if you make a second submission which has all or part of a component using LoTW, the second submission fee will only be \$10—a nice gesture by ARRL in view of this transitional period.

On September 1, ARRL announced that henceforth the deadline for the DXCC Annual List will cease to exist—thus eliminating the September 30 "crunch" each year for card checkers as well as ARRL staffers. Going forward, the lists of DXCC standings previously published in the DXCC Yearbook will be replaced by a constantly updated list of standings. Expect this in the first quarter of 2005.

There is no doubt that LoTW has ushered in a new era of confirming QSOs. Overall consensus seems to be that LoTW warrants praise for taking this step towards the future.

What's There To Do?

By John Scott, K8YC

As the current sunspot cycle winds down, we are seeing more articles on "What to Do" when we're at the nadir of the sunspot cycle. At last spring's Charlotte Hamfest, one forum explored antennas for working the low bands and the enjoyment of stretching your operating skills in the QRP arena.

Why not spend some time learning more about the structure of emergency communications as practiced by the Amateur Radio Emergency Services (ARES). For the first time in recent years, CDXA participated in Field Day. So, you ask, "what's the deal about FD?" Pick up a copy of Part 97 of the FCC rules—the very rules that establish our existence—and read the very first section of Part 97, i.e. Section 97.1 – Basis and Purpose of the Amateur Radio Service. Of the five fundamental principles supporting the purpose for creating the Amateur Radio Service, the first one reads, "Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications."

There are three on-line, self-paced, self-study courses of-

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ferred by the American Radio Relay League on emergency communications—emcomm for short. Following September 11, 2001, a corporate benefactor made a grant to the ARRL which allows the ARRL to rebate the \$45 course registration fee for ARRL members who successfully complete the courses. The goal of the grant is to ensure our nation has a cadre of amateur radio operators who understand the attributes required to be an effective emcomm operator.

I recently completed Levels I and II of the Amateur Radio Emergency Communications Course (ARECC), and I must say there are many things to be learned as to how amateur radio fits in with other emergency service workers and what the proper role of the amateur radio operator is to a served agency. Emcomm entails far more than being a good contest operator or net control station.

Level I takes you through all the things you need to know to be an effective emergency communicator. Topics include: Served Agency relationships, basic communication skills, basic message handling, the Incident Command System (ICS), preparing for deployment, equipment choices for emergency communications, emergency activation, setup/operation/shutdown in emergencies, personal safety and health, special events as training opportunities, and net operating guidelines.

Level II takes one a step further up the ladder by offering understanding of the role taken on by those who must provide leadership to the emcomm activity. Topics include: Key ARES Management positions, ARES Staff and ARRL Section support, basic net operations, the Net Control Station (NCS) and NCS operator practices, The Net Manager's role, Introduction to the National Traffic System (NTS), Health and Welfare Traffic Management, Working with Served Agencies, Rapid Response Teams (RRTs), Severe Weather Nets, Designing successful exercises, and ARRL's Simulated Emergency Test (SET).

I have not yet taken Level III, but I understand its thrust provides necessary training if one wishes to take an active role in managing the ARES activity. We're fortunate to have as a member of CDXA Daryl Sampson, W4OH. Daryl is the Emergency Coordinator (EC) for Mecklenburg and is active in the management of the Charlotte area ARES activity. Of course, many of you know John Covington, W4CC, is the North Carolina Section Manager (SM) and has oversight of all North Carolina Field Activities. If you'd like to know more about Level I and Level II courses, feel free to contact me. More information is also available on the ARRL website. Daryl was most help-

ful in providing answers to me needed for some of my studies, so I'm sure he'd also be a good resource if you have questions. I don't know how long the funding for the tuition reimbursement program will last. If you've ever felt you need to put a "little back into ham radio", I encourage to consider taking one or more of these fine courses.

September VHF Contest Coming to You

The AA4ZZ gang will be on the air on September 11 and 12 from atop the mountains near Boone, NC. Operations begin at 1800Z on September 11 and continue through 0300Z on September 13. The exchange will be your call-sign and grid square. Below are some pictures of the antenna farm used at the AA4ZZ contest station site.



To the left is the two meter SSB array atop a crank up tower. Four beams are harnessed together into a phased array. The booms of each antenna are 31 feet long.



Not far away from the 2 meter array are the 220 MHz and the 440MHz arrays used for SSB. A separate tower holds vertically polarized antennas for 2m and 70cm FM.

The Peter I DXpedition – 3YØX – January/February 2005

News Release Aug. 2004

The Team: The Peter I team roster is complete. The 3YØX operators will be: F2JD, HB9AHL, HB9BHW, KØIR, K4UEE, K3NA, K4SV, K5AB, K9SG, LA6VM, N2WB, N4GRN, N6OX, NK7C, NP4IW, OH2BH, OH2PM, PA5M, UA3AB, VK4GL, & WØRUN. Alternates are in place for any unexpected cancellations.

Team Meeting:

Most members of the team will meet in Atlanta on Sept. 23 - 26. This is a serious meeting; several members are crossing the Atlantic to attend.

Our agenda items include:

Practice shelter set-up

Equipment and generator check out

Propane and fuel systems check out

Final antenna check out

Equipment staging

Prep equipment for sea container packing

Seminars on: *Safety, Search and Rescue, Emergencies and Medical Care, Propagation, Logging, Equipment Operation,*

Dietary and Food, Environmental Concerns, and Operating Techniques.

The Ship: Our vessel, the 83 meter Antarctic Dream, has nearly completed its renovation. Everything with the vessel is on schedule and its new passenger certificate has been issued. See: <<http://www.antarctic.cl>>.

Dates: Our sailing date from Punta Arenas remains January 14, 2005. The voyage to Peter I will take 6 to 7 days. The exact landing date is weather dependent. We will hold off-shore until we have adequate flying weather for the helicopter and then move as fast as possible to get all men and gear safely ashore before the weather window closes. We are hoping for two full weeks of operation from Peter I.

FAQ's:

Where can I learn more about this DXpedition? Visit our web page at <[HTTP://www.peterone.com](http://www.peterone.com)>.

What will be the weather conditions on Peter I?

Winds vary from calm to well over 70 mph on a regular basis.

Temperatures hover around 0 degrees C.

Visibility is often very poor from blowing snow and fog.

Icebergs and large pack ice flows surround the island.

We will experience blizzard conditions several times during our stay.

How many stations will you activate?

It will be a long time before Peter I is active again. Therefore we intend to do everything possible to give everyone a 3YØX QSO. We will have nine stations with eight amplifiers ready to be on any open band 24 hours a day.

How can I help?

We are so glad you asked! *This expedition is over 70% funded by the team members and that percentage is growing larger.*

We need your help, no matter how large or small. Contributions can be sent to:

Bob Allphin, K4UEE

4235 Blackland Dr.

Marietta, GA 30067

USA

Toshi, JA1ELY

TOSHIKAZU KUSANO

P.O.BOX 8

KAMATA, TOKYO 144-869 - JAPAN

Gerard F. Jacot, F2JD

Le Grand Revard

Boucle de l'Observatoire

73100 Pugny-Chatenod - FRANCE

Lee Jennings, ZL2AL

203 Beresford Street

Hastings 4201 - NEW ZEALAND

Please make checks payable to: **DX Expeditions, LLC.**

Another way to help out is to purchase a souvenir of the DXpedition at the Peter I Store.

Please visit: <<http://www.cafepress.com/peterIstore>>.

Speaking for the entire team, we would like to thank those who have already come forward and volunteered to help make this DXpedition possible, both materially and financially. They are acknowledged on our web page. An esprit de corps is developing in the amateur community with 3YØX as the nucleus. It is beginning to feel like the "magic" both of us felt with VKØIR. It can happen again and be even better!

Bob – K4UEE

Ralph – KØIR



In 1994, Ralph, KØIR holds one of the snow anchors used to secure the antennas and shelters.

The Back Page

The **Annual Barbecue** is on for Saturday, October 9 at Gary Dixon's QTH. See Page 1 for details. See you there.

Look for the AA4ZZ guys atop the Blue Ridge for the **ARRL September VHF QSO** Party on September 11-12. They'll be working 6m, 2m, 220 MHz, and 440MHz in the limited multioperator category and can use your contacts. Check the CDXA Cluster for where they are, but 146.49MHz, 146.52MHz, or 146.55MHz. FM are good starting points and you'll get passed to whatever bands you can work them on. More details inside on Page 7.

On The Back Page in last month's edition, you learned **Kent Miller, K4MK, had installed a 75 meter yagi** and received recognition in DX Publishing's QRZ DX. Now there's more. In the July/August Issue of The DX Magazine, published by Carl Smith, N4AA (a member of CDXA), Kent tells his own story of raising this behemoth of an antenna with the help of fellow CDXAers Don Daso, Ken Boyd, and Todd Brady and several other friends. It is an interesting four page story with many pictures to document the effort. Now, Kent, when are you going to provide The Pileup a short article on how well it performs?

Have you considered supporting the **Peter I DXpedition** yet? Inside this edition of The Pileup is some insight into the logistics and expense of running this DXpedition. Please consider a donation—whatever the size—to support this effort.

Contest season is rapidly approaching, and **See Whack (CWAC)** is again on tap. Read the article by Paul Sturpe, W3GQ on The Second Front Page, inside.

Additional September **Contests**: SC QSO Party 9/18-19; QCWA QSO Party 9/18-19; CQWW RTTY DX 9/25-26. See Page 97, QST for September 2004 for a more complete listing.

Jim Miller, K4SQR
11600 Hilda Court
Charlotte, NC 28226

k4sqr@juno.com

First Class Mail

See something wrong with your address label? Notify K4SQR at once, please.