



# The Pileup

## Newsletter of the CDXA

### The Third Time is ALSO a Charm!

By John Scott, K8YC

W4VHF	Ted Goldthorpe	President
W4GRW	Bill Fisher	Vice-Pres.
W3ZL	Cliff Wagoner	Sec.-Treas.
K4MD	Joe Simpkins	Cluster Mgr.
W3OA	Dick Williams	Contest Mgr.
W3GQ	Paul Sturpe	Cluster Mgr.- North Area
WB4BXW	Wayne Setzer	Webmaster
NV4A	John Forbus	Editor

The first time I attended a Southeast VHF Society (SVHFS) Conference was in 2005. My wonderment reported in the May 2005 *Pileup* (<http://www.cdxa.org/pileup/archives/cdxa0505.pdf>) was that the VHF community was a lot like I remembered ham radio in the 1950s. Experimentation and homebrewing amongst the VHF/UHF crowd is the rule. Building gear to work at microwave frequencies and the higher UHF frequencies often implies scavenging commercial equipment and adapting it to ham uses. When CDXA again sponsored the SVHFS Conference in 2009, the same level of creativity was being shown by those who presented their creations. Happily, it was business as usual in the recently completed 2012 SVHFS Conference held in Charlotte. Once again, CDXA was a sponsor of the event and a number of CDXA members along with their co-



horts in the SVHFS put on a good show.

This year's event was honored by the presence of ARRL's President, Kay Craigie, N3KN, who addressed the Friday luncheon banquet and who is an avid VHFer herself. Also on the docket this year was a visit by Nobel Laureate Joseph Taylor—creator of the now pervasive WSJT software suite enabling meteor-scatter communications and moon-bounce communications using comparatively modest equipment. Joe addressed the assemblage as the keynote speaker at the concluding banquet and spoke of his efforts at using the Arecibo Radiotelescope dish to give radio amateurs EME contacts in 2010. More on that later.

### A Fast Start to the Event

Friday morning at the SVHFS conference is always the time when conference attendees bring in their creations to an antenna range (check the picture on the next page) to compete for "big dog" honors of antenna gain on each of the many VHF/UHF bands. Alongside that activity, a well instrumented setup tests preamplifiers that have been homebrewed by attendees for honors on the best measured noise figure. On the antenna range, Bill Fisher, W4GRW,

*(Continued on page 2)*

CDXA PacketCluster & Other Communication Systems	
K4MD (AR Cluster via Telnet)	k4md.no-ip.com
W4DXA (AR Cluster via Telnet)	w4dxa.no-ip.com
CDXA Repeater 147.18 MHz (+600 )	W4DXA, Near Fort Mill, SC
World Wide Web Homepage	www.cdxa.org
Wednesday Luncheon (11:30 AM)	Skyland Family Restaurant, 4544 South Boulevard, Charlotte, NC

(Continued from page 1)

brought a “Quad-Bay” antenna (two stacked H-Double Bay antennas) for 2m—not unlike something used at the AA4ZZ contest station—and was awarded a prize for producing 7.2dbd gain. Pete Manfre, WA2ODO, showed his acumen for design/build by winning all the classes from 6m to 1296MHz with his line of preamplifiers. All of his preamps operating at 432MHz or less have noise figures less than 0.1 with gains of 20db or more, and these numbers don’t drop off appreciably even for those preamps he builds for 902MHz and 1296MHz. (By the way, Pete will sell you one of these babies if you catch him at a CDXA luncheon!)



### A View of ARRL from its President

With the antenna range all packed away, lunch was upon us, and Kay Craigie gave us some things to think about in her luncheon address. Kay began her address by pointing out she started into ham radio primarily as an HF operator. Yet, as a Pennsylvania Section Manager she attended the Pack Rat Conference of the Mount Airy VHF Radio Club and got interested in VHF contesting which led to grid chasing on VHF/UHF. Kay immediately won the hearts of the SVHFS stalwarts!

Speaking as ARRL President, Kay gave the assemblage a view of what the ARRL does for its members beyond the more visible things such as publishing QST, QEX, and a multiplicity of technical publications, sponsoring contests, and providing a framework for emergency communications. She addressed in order, advocacy, regulation, litigation, and public relations. Remember, WE are the “league” as much as the bricks and mortar you’ll find in Newington, CT.

One of the earliest *advocacy* roles dated back to the Radio Act of 1912 when Hiram Maxim did battle with the U.S. Navy over the rights of hams to continue their pursuits. This battle was on the heels of the recognition that radio was the only way to communicate with ships at sea. (Remember, the *Titanic* went down in 1912!) The advocacy role has continued over the years with the latest big issue being HR-607 introduced in 2011 to auction off the 420-440MHz band and consolidate all emergency communications in an 800MHz unified band. Thousands of hours of assistance came from ham volunteers to assist ARRL HQ in advocating our views to the New York Senator who proposed HR607 but did not fully understand its ramifications on the Amateur Radio Service. That assistance came in the form of a video production from a volunteer with such skills. Also, over 7,000 letters were sent by hams using a letter generator—also developed by a volunteer ham with information technology skills.

Keeping an eye on *regulation* of our service by the FCC is another role of ARRL. The League retains a law firm in Washington, D.C. to represent us in the seat of government. Dan Henderson serves as Regulatory Manager in Newington to field questions from members. For years the FCC always was staffed internally with engineers and those skilled in communications technology. A disturbing recent trend is that politics and “profits” have swayed the FCC from the path of sound engineering, and engineers are getting harder to find there. The engineering labs at ARRL HQ have managed to keep the FCC “honest” and provide the necessary technical backup for our legal counsel in Washington.

Unfortunately, regulatory matters sometimes lead to *litigation*. President Craigie did not need to spend a lot of time to remind us that litigation is expensive, and often has a low probability of success. With increasing frequency, government courts seem to believe that government personnel know better than well trained tech-

### The Pileup

Official Newsletter of the Carolina DX Association  
Copyright 2012

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.

Yearly dues are \$25.00. A second licensed Amateur family member living in the same household can join for \$5.00 for a total family price of \$30.00 per year. The total price for 3 or more licensed family members living in the same household is only \$35.00 per year. All family members enjoy full member status. Dues are payable annually in December by check or through the CDXA website, to the Secretary/Treasurer:

Cliff Wagoner, W3ZL  
P. O. Box 577  
Davidson, NC 28036

Address, telephone, and email address changes should be directed to the Secretary/Treasurer at the above address or via email at: jcw53@cornell.edu.

(Continued from page 2)

nologists in non-governmental roles. This prevailing attitude continues despite clear evidence that those qualified to exercise technological judgment at the FCC are increasingly relegated to lower levels of the organization. Despite the long odds, ARRL took on the FCC in issues related to Broadband over Power Line (BPL) and won a judgment calling for the FCC to revisit some of their regulatory decisions on BPL.

The last area President Craigie spoke to was *Public Relations*. In the aforementioned concerns about HR607, for example, ARRL arranged for National Public Radio (NPR) to have a forum on the pros and cons of HR607. ARRL certainly is in favor of unification of Emergency Communications for First Responders, but not at the expense of taking spectrum that is used by radio amateurs in support of many of their emergency communications activities. ARRL got its “day in the sun” on NPR. Interestingly, the Senator who was sponsoring the bill declined to participate in the NPR forum.

In wrapping up her comments, President Craigie cited that all radio amateurs can and should be advocates of the Service. The big challenges facing the Service today are coming from the insatiable appetite for spectrum coming from the wireless industry. The “good” part is that more young technologists are seeing that all matters of radio communications present fascinating career opportunities. The “bad” part is that for-profit organizations are coveting any spectrum they can get, and military allocations seem to be sacrosanct, so the Amateur Radio Service with its small slivers of spectrum remains a target, even though we peacefully are currently sharing many such slivers with other services—especially in the VHF/UHF spectrum.



ARRL President, Kay Craigie

What can we do every day to serve as advocates? Each and every one of us should seek out general interest amateur radio clubs. Make presentations to excite them with ideas about VHF/UHF activities—contesting, fox hunts, grid chasing, antenna building, and emergency communications. Let them know there is so much more about ham radio than merely talking on a repeater. Get youth involved in the magic of radio communications by exposing them to the career opportunities and technical challenges inherent in ham radio. Make youth aware that ham radio opens the world of radio AND computers to them and it is a big world.

### On with the show!

Now, on to the conference, and a sampling of some of the topics of discussion. . . .

In “Automating NF Measurements”, Mike Stipic, KC4RI, took the bull by the horns when the task to measure the noise and gain characteristics of preamplifiers for the SVHFS Conference competition became time constrained. Since they are affordable by hams, some own Hewlett-Packard HP8970A/B noise/gain measurement devices. But, these devices don’t record their measurements. However, they DO possess the HP Instrument Bus (HP-IB). A little brushing up on HP-IB programming and downloading a copy of Microsoft’s Visual Basic 2010, and Mike produced a recording instrument that provides quick, repeatable measurements.

When a friend of Ben Lowe, K4QF, lost two yagis of an eight yagi array a few weeks before a contest was to begin, it was time to do some creative engineering to make a 6 way combiner/splitter in time for the contest. Ben came up with an ingenious design constructed from striplines housed in a box created from copper clad printed circuit board material. The design is also adaptable to other levels of splits with a few changes. Problem solved in time for the contest!

The devil is in the details as they say. Chuck Hoover, K0VXM, gave a pragmatic view of just where noise can develop in a microwave system in his paper, “Sources of Noise in Microwave Systems”. His paper will surely help some solve issues of how an “idealized device” differs from what we find in the real world when we build that device into a piece of gear.

Gary Green, W2ZV, set out to use an existing circuit board to develop his own version of a Low Noise Am-

plifier (LNA) for 50MHz through 432MHz. You may have seen Gary's finished product at some recent CDXA luncheons. Rewinding inductors, figuring out how to fit them on the board, then putting the board in a redesigned box and making it all perform at a desired performance level creates many "moving parts", as they say. Yet, Gary managed to get 'r done in time to tell the conference all about it.

Steve Kostro, N2CEI, and his significant other, Sandra Estevez, K4SME, are microwave buffs. They are such big buffs, that they own Down East Microwave, Inc. (DEMI) and are known by many VHF/UHF aficionados. Steve and Sandra showed that they are game competitors by taking us through construction of their 160m station—including a radiator on a 120 foot tall tower, 120 radials made from 18,000 feet of wire to laying down 6 or 7 Beverages—on their Florida QTH. When finished with their project, Steve and Sandra said that roving with their VHF/UHF gear can be done far more quickly with far less work.

Dennis Motschenbacher ,K7BV, our fellow CDXA member now living in Turkey, NC, related to the audience of his rehabilitation activities as a cancer survivor. Dennis wanted to go "on the road" and help all his old buddies needing rare grids. So, 96 grids later with a few stops along the way back home, he finished his quest—stronger and self-satisfied. It appears his doctors—all 20+ of them who had treated Dennis—could never have guessed the healing power of a man possessed. Happily, the author of this article caught Dennis in DL79 one afternoon in August, 2011 and quickly worked him on both CW and SSB.

The full conference proceedings are provided to all attendees. Included in the proceedings are some papers that were not presented at the Conference. If you didn't make the Conference, you should next time it is in town. The proceedings should be available from the ARRL or by borrowing an attendees CD.

### An "Out of this World Experience" with Joe Taylor

At the wrap up Banquet, Joe Taylor, K1JT, told about activating the Arecibo Radiotelescope to provide some moonbounce activity for the VHF/UHF crowd. With an aperture of several thousand feet and a 1500 foot long waveguide about 15" square being fed to the focal point of the "dish" many were able to easily receive signals

bouncing off the moon by an antenna with 62db of gain! The feed point of this monster antenna is positioned on a gigantic assembly suspended 430 feet above the dish by a number of large cables. If you are a fan of "007" movies, you may remember one of the episodes had a dramatic ending with a fight staged at the feedpoint.

An interesting feature of the 432MHz transmitter/receiver is caused because the huge dish is not a parabola focused on a particular spot. Rather it is a spherical cavity in the mountaintop and "aiming" the various frequency antennas is done by moving the feedpoint. The 432MHz antenna looks like a long pole that Joe described as a lossy waveguide. While the shorter microwaves can be focused using primary and secondary reflectors in the feedpoint assembly, at 432MHz the signals are phased by the "lossy waveguide" pointing in a direction opposite the direction of propagation so the distributed signal source can be focused by the spherical "mirror" at its intended target.

After Joe's talk, a number of very desirable door prizes made a lot of folks happy. Ask Ken Boyd and Chris Price about their winnings, or just check out the pictures of the happy winners below.



Ken, K4DXA; and Chris, WW4CP, show off their prizes

The following members of CDXA are active in the Southeast VHF Society and helped to bring about this conference: Bill Fisher ,W4GRW, Guy Titman, W4NUS, Ken Boyd, W4DXA, Joe Barkley, KI4TZ, Thomas Wright, N4HN, Pete Manfre, WA2ODO, Paul Trotter, AA4ZZ, George Hohas, W4GEH, and Les Zavadil, W4FRA.

Finally, on the next page, check out the Proclamation from the City of Charlotte, proclaiming April 20, 2012 as "Amateur Radio Very High Frequency Day."

## City of Charlotte, North Carolina Proclamation

**WHEREAS**, the Amateur Radio Service is authorized by the Federal Communication Commission as a purely volunteer, non-commercial radio communication service; and

**WHEREAS**, the Amateur Radio Service continues to attract licensees and recently recorded over 700,000 licensees in the United States; and

**WHEREAS**, the Southeastern VHF Society is a subset of the Amateur Radio community which shares a special interest in Very High Frequency (VHF), Ultra High Frequency (UHF) and Microwave radio communications; and

**WHEREAS**, the Southeastern VHF Society meets annually in the spirit of fulfilling the goals of the service in advancing the radio art in its areas of expertise and interest; and

**WHEREAS**, in 2012 the Southeastern VHF Society has chosen Charlotte, North Carolina to conduct its 16<sup>th</sup> Annual Conference:

**NOW, THEREFORE**, I, Anthony R. Foxx, Mayor of Charlotte, do hereby proclaim April 20, 2012 as

### **“AMATEUR RADIO VERY HIGH FREQUENCY DAY”**

in Charlotte and commend its observance to all citizens.

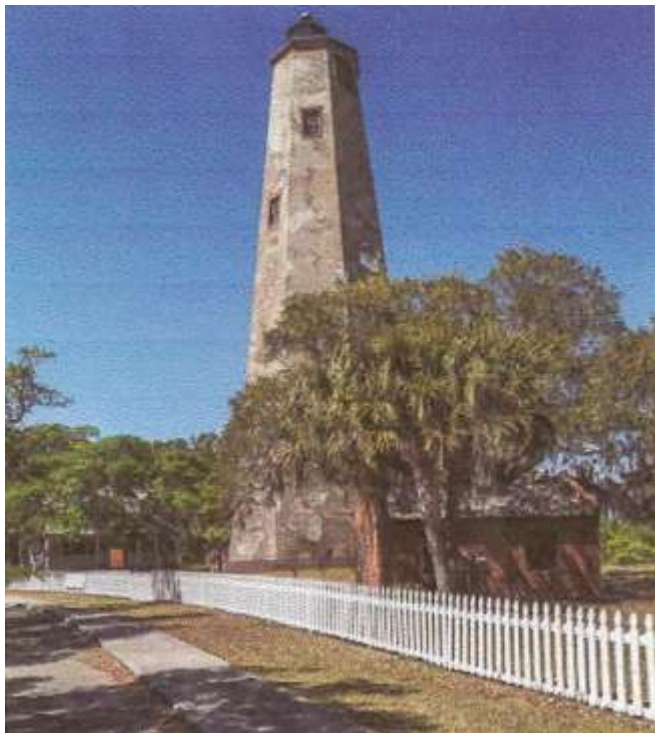
**WITNESS MY HAND** and the official Seal of the City of Charlotte.



A handwritten signature in black ink, which appears to read "Anthony R. Foxx". The signature is written in a cursive style and is positioned above a horizontal line.

Anthony R. Foxx  
Mayor

## Activating Old Baldy Lighthouse (...again)



On Saturday, April 14, Bill Turner, W4WNT, and Ed Kuebert, K5EK, who are also members of the Brunswick Shores Amateur Radio Club, once again joined other members of the club for an excursion to Bald Head Island to operate from Old Baldy Lighthouse. The operating position was right at the base of the tower. Ed reports that the weather was beautiful and it was a great day in a very nice location.

Bald Head Island can only be reached by either private boat or the public ferry, both of which were used by various members of the group. Once on the island, transportation is by foot or in golf carts. While the lighthouse is in walking distance from the island's ferry dock, Ken notes that this year, they had the use of a golf cart provided by Bill Morine, N2COP, the ARRL North Carolina Section Manager, who happened to be vacationing on the island at the time. Using a G5RV, hung from the top of the lighthouse, and a 40m dipole hoisted into a couple of trees, they kept two stations on the air

almost continuously from mid-morning until about 1600, mostly on 20 and 40 SSB. They made about 200 contacts, and Ken comments that he made the only two CW contacts. (For a description of last year's operation, see <http://www.cdxa.org/pileup/archives/cdxa1105.pdf> )



Bill, W4WNT, at the mic

## Field Day 2012

Joe Barkley, KI4TZ, and  
Dick Williams, W3OA



CDXA is planning on continuing its streak of very competitive Field Day entries. This year we will return to the QTH of Joe Barkley, KI4TZ, just north of Chester,

*(Continued on page 7)*

South Carolina. All stations will be in air-conditioned space. We will be using the callsign W4DXA.

In 2007 and 2008 CDXA made history by setting two Field Day class records, Class 4E (home station, four transmitters, emergency power) in 2007 and Class 5E (home station, five transmitters, emergency power) in 2008. In 2009, 2010, and 2011 we won Class 3E (home station, three transmitters, emergency power). We are out to win Class 3E again.

Here's our plan:

- Time/Date: 2 p.m. Saturday, June 23rd, to 2 p.m. Sunday, June 24th.
- Location: QTH of KI4TZ north of Chester, SC.
- Class: 3E (home station, three transmitters, emergency power), 150 watts or less.
- Stations: Three stations in the house. One will be SSB, all bands, 80 through 10. One will be CW, 160 through 10. One will be CW and SSB on 40 and 15. A fourth station will listen for activity on six.
- Antennas: 160 – G5RV  
80 – Dipole, G5RV  
40 – Vertical loop, dipole, G5RV  
20 – Log Periodic, Tribander  
15 – Mono Bander, Log Periodic, Tribander  
10 – Log Periodic, Tribander  
6 – Five Element Yagi and PAR Loop.
- Work Days: Saturday, June 16th, one week before Field Day, beginning at 9 a.m.  
Friday, June 22nd, the day before Field Day, to complete set up if needed.

Members participating at W4DXA will receive an official CDXA Field Day Tee Shirt similar to last year's shirt shown in the picture. In order to be guaranteed a shirt in your size you must sign up by June 9.

We need operators - If you want to join our winning operation please contact Dick at

[w3oa@roadrunner.com](mailto:w3oa@roadrunner.com). Let him know when you can be available and your preferred operating mode(s). There is room to sleep inside on your air mattress and sleeping bag, so don't be afraid to spend the night with us. And don't forget to provide your tee shirt size. *Please remember:* We need all this by June 9.



Some of Last Year's Field Day Team Modeling the Highly Desirable Field Day Tee Shirt

### Who's on CW?

**WARNING:** If you're an Abbott and Costello fan, and quote lines from "Who's on First" anytime you have a chance, have a look at this link. ...otherwise, you might want to just leave it alone. Thanks (or not) to VE1DX, and also N2TU, who found this gem and passed it on: <http://www.ve1dx.net/Stories/story007.html>



### New Member:

Welcome to WX4F, Gray Fulk, 201 Club House Dr., Pilot Mountain, NC 27041, 336-368-2802, [grayfulk@embarqmail.com](mailto:grayfulk@embarqmail.com).



## DX King News

Dick Williams, W3OA

Item 1: Full details of our DX King Contest and your chances to win a 10 inch tablet computer are on page 3 of the January Pileup <http://cdxa.org/pileup/archives/cdxa1201.pdf>

Item 2: Here are the scores I have for the 2012 DX King competition as of April 30:

Call	Category	Countries	Zones	Total
K5EK	Unlimited	261	40	301
N4ZC	Unlimited	260	40	300
W2HTI	Unlimited	247	40	287
W4HG	Unlimited	231	40	271
K4GHS	Unlimited	222	40	262
W3GQ	Unlimited	211	39	250
KO4DI	Unlimited	192	40	232
W3ZL	Formula	177	37	214
K2SX	Unlimited	168	38	206
AA4SC	Unlimited	162	40	202
KZ2I	Unlimited	153	36	189
W3OA	Unlimited	150	35	185
W1AJT	Unlimited	148	35	183
K8YC	Unlimited	139	35	174
W4WNT	Formula	121	29	150
N4PQX	Unlimited	109	39	148
NK0S	Unlimited	112	30	142
N4QVM	Unlimited	96	26	122
K4ESE*	Unlimited	96	22	118
N2TU	Unlimited	78	27	105

\* All 80 meters

Item 3: Don't forget to send me ([w3oa@roadrunner.com](mailto:w3oa@roadrunner.com)) your DX marathon scores as of the last day of each month after your score reaches 100.

## The Way Back Machine

### 10 Years Ago in the Pileup:

Bill Turner, W4WNT, the CDXA President in 2002, had this to say about DXing and CDXA in his *Presidential Ramblings* : “I’ve been thinking how unique our DXing hobby really is. Roger Burt, N4ZC, and Don Daso, K4ZA, gave a program at one of the local radio clubs last night on DXing. Here are two guys that have worked everything and are still getting out there, making an effort to instill that DX spirit in others. I continue to be amazed at the energy and creativity of our CDXA members. While DX can be a lonely pursuit, when you get to a local meeting of CDXA, you will notice that you need a bullhorn to be heard!! It is a real group of communicators. The sound level at Shoney’s in Charlotte during the Wednesday lunches has to be heard to be believed. If you haven’t been there, why don’t you join us? “

John Scott, K8YI, gave part 2 of a tutorial on packet switching, explaining how it differs from circuit switching, and giving some of the background, and justification for the development of what would become the internet. The Cold War led to, among many other things, a desire for survivable long haul critical defense data (and voice) communications networks. Packet switching, with its capability to take multiple and varying paths between two points without losing data, originally in the form of ARPANET/ DARPANET, provided that. In the article, John explained, in straight-forward terms, how packet technology works its magic. John also pointed out the effect of the technology developed for the space program, which helped push along electronic development in general, and helped lead to computers small and powerful enough to perform routing and terminal functions for packet switching. John closed with a promise of more on the subject in the July *Pileup*.

## 20 Years Ago in the Pileup

There was this report from Roger, N4ZC:

### **N4ZC TRIP TO VISIT VICTOR/LY2BIG**

I WILL BE LEAVING FOR STOCKHOLM ON 25 MAY WITH A RETURN TO CHARLOTTE ON 23 JUNE. THE FIRST HALF OF MY TRIP WILL BE VISITING VICTOR IN LITHUANIA. VICTOR WILL PICK ME UP AT THE RIGA LATVIA AIRPORT ON 28 MAY. SOME OF VICTOR'S FRIENDS IN CDXA HAVE ASKED IF I COULD TAKE SOME GIFTS TO HIM. I AM TRYING TO TRAVEL AS LIGHTLY AS POSSIBLE WITH ONLY ONE SUITCASE TO LAST ME FOR A MONTH.

LET ME SUGGEST GOOD OLD AMERICAN GREEN STAMPS. NOW THAT LITHUANIA HAS ITS FREEDOM WESTERN GOODS CAN BE BOUGHT IF YOU HAVE WESTERN CURRENCY. AT THE CURRENT RATE OF EXCHANGE VICTOR MAKES LESS THAN \$25 PER MONTH. THAT DOESN'T GO VERY FAR. YES, I KNOW MONEY IS A BIT CRASS BUT A SMALL AMOUNT BY OUR STANDARDS WOULD GO A LONG WAY TOWARDS HELPING OUR FRIEND VICTOR. JUST SEND ME A LETTER/CARD FOR VICTOR SO THAT EACH PERSON, IF THEY WANT, WILL GET CREDIT FOR THE GIFT.

I WILL TRY TO GET ON THE AIR WITH LOCAL CALLS OR MY OWN CALL PORTABLE LY - YL - ES - UA2 - UC - UB - OH - SM - LA - OZ. I'LL TRY TO OPERATE JUST INSIDE THE ADVANCED PART OF EACH BAND.

73 ROGER N4ZC

*(We'll have more on Roger's Lithuanian exploits in the next Pileup. Ed.)*

### **Cinco de Mayo Antenna Building Party**

Bill Fisher, W4GRW, hosted a "Cinco de Mayo" Antenna Building Party on, when else, the 5th of May, at his apartment complex in Charlotte. About a dozen would-be antenna builders showed up to build variations on Bill's "award winning" quad-bay antenna. (See the article on the SVHFS conference at the front of the Pileup.) The results were six 2m, one 432MHz completed and

several 432 "kits", one 10m and one 6m quad bay. All-in-all it was a successful day, in spite of a few SWR problems with some of the antennas. All the activity and strange looking contraptions generated a fair amount of interest by passersby.

### **Hams ...In a Bar?**

Supposedly, two hams were sitting at a bar having a drink and a face-face QSO, when one remarked to the other "Hey, look over there at those two old geezers. Think we'll look like that in another ten years?" ...to which his friend replied "...bad news, that's a mirror you're looking at!"

And, while we're on the subject of age, I saw a sign in my ophthalmologist's office the other day that had a picture of a grey haired guy with his arms stretched out to about six feet, his head slanted back, and a book in his hands. The caption was "Presbyopia—the First Sign of Maturity."

### **ARRL June VHF QSO Party**

Some of our members will once again be heading to the hills to work the VHF QSO Party on June 9-11. They would be happy for everyone's help in piling up their score by giving them a call on every band you can. Last year, the team was #4 in the USA in the Limited Multi-Operator class.

### **W4BFB Boneyard Link**

The link from [www.w4bfb.org](http://www.w4bfb.org) to the CDXA Boneyard is up and operating, so anything you put onto the Boneyard can now be seen by our BFB neighbors from their website.

## The Back Page

- The big news this month was the very successful SVHFS Conference held in Charlotte. Thanks to John, K8YC, for keeping a hand in the *Pileup* by being the reporter and photographer, and also congratulations to all the CDXA members who helped plan and manage this major event.
- A couple of CDXA members were once again involved in the activation of the Old Baldy Lighthouse on Bald Head Island during April.
- Field Day is coming up on the 23rd and 24th of June. Don't forget to let Dick, W3OA, know by June 9th if you plan to participate.
- Be sure to check out the latest DX King scores.
- Per long-standing tradition, there won't be a June edition of the *Pileup*. See you in July.

---

**Cliff Wagoner, W3ZL**  
**P. O. Box 577**  
**Davidson, NC 28036**

**jcw53@cornell.edu**

**First Class Mail**

*See something wrong with your address label? Notify W3ZL at once, please.*