

**EXTRA, EXTRA, READ ALL ABOUT THE AMATEUR RADIO
 RESCUE ON THE OHIO TURNPIKE !**

Details start on Page Two

FROM THE PREZ

WOW! What a great C.A.R.S. summer picnic! The memories are still burned in my mind, but the burgers sure weren't burned. Our two master chefs, Tom, WB8N, and George, K8KR, really out did themselves this year. The food at the third annual picnic was fantastic. The boys had the grills going strong most of the evening, serving up food that had everyone complimented highly and joyfully over indulged in. All the trimmings were beautifully prepared and laid out. I heard nothing but raves about the coleslaw and potato salad. Many members brought delicious deserts which sent the calorie count over the top for most of us. The weather was perfect, and the bugs must have been attending a convention out of town. We had a great turnout for such short notice, but the best part was the many non-ham family members that came. It was a fine way for everyone to meet all the friends we talk about. Sincere thanks to those who helped and attended.

The July meeting had a surprisingly good turnout considering the rainstorm, wet conditions and no electrical power. We had to postpone some of the activities such as the antenna launcher accuracy contest and the showing of the Field Day video. We will schedule both for the August meeting.

Despite the dampness, those assembled participated with the business at hand and enjoyed the excellent camaraderie that draws us

to the gatherings. Special guest, Matt Welch, KB1LCS, gave a very informative presentation on ARES. Matt is heading up the new section just formed, and he certainly showed his experience, exuberance and dedication will certainly lead to success. This is an opportunity for those interested in public service during emergencies or disaster. Most of us have read about and seen pictures of hams in action during these events. The contributions they made have been invaluable. Lives have been saved. This is a real opportunity to "give back", using your radio skills. Please contact Matt as soon as possible to help him with his extremely important task. He can easily be tracked down through QRZ.

So until we see one another at the next meeting, or meet on the air; keep riding the waves.

73, Toby, WT8O

AUGUST MEETING, Tuesday, August 12, 7:30 p.m. at the Brecksville branch of the Metro Parks, Oak Grove Picnic Area.

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JULY MEETING MINUTES

The C.A.R.S. July 8, 2008 monthly meeting was called to order at 7:30pm by interim President Toby WT8O. The meeting was held at the Oak Grove Picnic pavilion in Brecksville, Ohio. Twenty nine members and two quest introduced themselves to begin the meeting. Dave K8DAV made the motion to accepted the June minutes in the WO. Scotty WA8SLN second everyone voted to pass the motion.

Bob W8GC gave Treasurers report, Ron K8VJG made motion to accept the report Linda N8LRS seconded it. The members voted to pass the vote.

President Toby WT8O talked about the net, and he has hard copies of the net controllers' schedule for the net controllers. He also asked that please do not kerchunking the repeater right before the net. It is illegal please identify when keying the repeater. (*Or your radio too for that matter...Ed.*)

Toby also said that Field Day was a great success, that it was the best one of all time. Toby said that the ARRL won the court decision on BPL.

Gary NI8Z said he expects eight to thirteen people at the July 13th VE test.

Tom WB8N asked everyone to send anything ham related to him for the WO.

Scotty WA8SLN sent a card to Marian

Rubin, KC8ZBN who had a bad fall. Scotty then passed out two checks to Kayla N8KAY and Jacob KD8CDC for winning the scholarships.

George K8KR asked about a summer picnic for Friday July 25th . Linda N8LRS made the motion to have one, Tom WB8N seconded. The members voted to pass the vote.

Toby WT8O asked for two or three volunteers for a program committee.

Nominations for President were opened, Bob W8GC nominated Toby WT8O he was the only nominee so Ken K8OAE moved he be voted in unanimously, Steve N8SRJ second. The club passed the motion.

The club than took nominations for Vice President as Toby was elected prez they are Linda Sinko N8LRS, and Ed Stevens KD8FTS.

Refreshments were from Ron K8VJG donuts, Mike KB8UGT pop (need a new volunteer) we wish to thank these people for the refreshments.

The 50/50 was won by Gary NI8Z, he got \$29

Steve N8IS made the motion to adjourn Steve K8SKS second the members voted to pass the motion at 8:21pm.

Matt KB1LCS gave a very informative talk about ARES. (Could not show field day video & pix because power was out)

Submitted by Stephen R. Jones N8SRJ
C.A.R.S. Secretary

**DRAMATIC AMATEUR RADIO
RESCUE ON THE OHIO TURNPIKE**

By Tom Wayne, WB8N

It was a dark and stormy night...well, it really wasn't but it would have made the story more dramatic.

At approximately 12:30 a.m. on the morning of Friday, July 11, an amateur named Gordon, W2TTT was traveling with his wife and young son on Rt. 80, heading for Richfield, where they had hotel accommodations for the night. Gordon decided to throw out his call and see if anyone would come back to him at such an early (or late) hour.

At the same time, I had my 2 meter rig on in the shack and could hear it from my bedroom. I was getting ready to hit the ole sack and declined to go back to W2TTT. However, C.A.R.S. member, Eddy, KD8FTS also heard W2TTT's call. Eddy was also getting ready for bed but asked his wife Colleen if she minded it he went back to the out-of-towner. Colleen said that she did not mind, so Eddy went back to Gordon and they began a nice QSO, which I could hear from the comfort of my bed.

I was dozing, ready to go to dreamland, when I heard the conversation between Gordon and Eddy change. Gordon had developed some sort of problem with his vehicle, which was a Ford E360 XLT van. He had pulled over to the berm and was unable to move his van. Gordon informed Eddy of his predicament and stated that they had called AAA for a tow, but did not know how long it would be before the tow would get to him and his family.

Without hesitation, Eddy told Gordon that he was on his way and asked his location. Gordon was able to relay to Eddy his location and that he would be standing by on the air.

It took a while for AAA to verify that Gordon was indeed a member, since he was from the state of New Jersey, but they finally confirmed that a tow was on the way.

In the meantime, Eddy's father, Ed, WB8ROK, also a C.A.R.S. member was on

the radio standing by and listening in case more help was needed. I also had got out of bed and let them know that I was listening and was available to help if needed. The Highway Patrol was called, but they dispatched a roadside assistance vehicle to respond, as there was no emergency, at least at this time. The roadside assistance vehicle arrived at the scene, and so did Eddy who stayed with Gordon and his family until the tow arrived.

By the time the tow truck finally did arrive, it was after 3:00 a.m. Both Ed and I stayed by the radio in case more help was needed, but as it turned out, everything was under control, thanks to Eddy.

After the tow truck arrived and hooked up Gordon's van, Eddy loaded all of their luggage into his vehicle and drove Gordon and his family to their hotel and made sure they were checked in and safe for the night.

The next morning Gordon had a business meeting in Cleveland and had rented a car to get to that. He was due in Minneapolis Tuesday for another meeting, but was able to put that off until Wednesday. He was hoping that his van would be ready late Monday but it was not. It turned out that his differential failed and he needed a new one put in.

Gordon and his family took Eddy and

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Colleen and Ed out for dinner as a “thank you” before heading on to Minneapolis. Upon his return to Cleveland, his van was finally repaired and he and his crew headed back to New Jersey.

As it turns out, Gordon’s wife Nancy is also licensed as N2FWI and is a General. Their two older boys are licensed as well. The son that was traveling with them, Jeremy, is 11 years old and is not yet a ham but you can bet he will be as soon as he can. Gordon is an Extra Class amateur and is active with the Boy Scouts.

So my friends, once again Amateur Radio comes to the rescue. This is one of the reasons we are hams, and I am proud to be a part of the Amateur Radio community in Northeastern Ohio.

I was able to chat briefly with Gordon as he and his family were leaving for home from Cleveland and he thanked everyone involved profusely.

C.A.R.S. PICNIC... A GREAT SUCCESS

By Toby Kolman, WT8O

The third annual C.A.R.S. summer picnic was held in the early evening hours Friday, July 25 at the Independence Civic Center pavilion. With short notice this year fifty three people, consisting of club members and their families were treated to a great night of fun and food. The weatherman may not have been there, but he did his part by providing an absolutely delightful evening.

George, K8KR, and Tom, WB8N, kept the grills blazing with hamburgers and cheeseburgers cooked to order, as well as sausage and brats. All the fixings, such as lettuce, tomatoes, and sliced onions were expertly made available. George makes the coleslaw himself from scratch and finds only the best ingredients. It certainly did not go

unnoticed as many compliments were overheard. The potato salad was provided by Linda Sinko, N8LRS. A wide assortment of tempting deserts brought in by various members topped off the dinner. Thanks to Tina W8HBI & Steve N8IS for bringing out the coolers of iced liquid refreshments.

The best part of the picnic is the opportunity for family members to become acquainted with the club, its members and other families who are linked together by the common bond of amateur radio. For those guests who were first timers to a C.A.R.S. activity, it was quite evident they were glad to be there. All the tables were full of smiles and happy conversation. Sure, talk of antennas, radios and band conditions could be overheard; but a vast variety of other subjects were being bantered around the group. Hams love to talk and it seems their better halves share the passion. It was really gratifying to see folks get up from one table and soon be at another joining in a completely different conversation with another group of people. Even though some of us are closer to certain other members, it was abundantly obvious there was not a collection of small “clicks” at the C.A.R.S. picnic. It almost seemed like everyone there engaged in at least one conversation with every other member present. We have a great group, and everyone should be thankful to be part of it. It was evident a lot of new friends were made on that fine summer night.

Things got exciting when the prizes were raffled off. The big winner of the 50/50 was Steve, N8IS, who went home \$45 richer. Two \$25 gift cards were given away. One was won by club secretary Steve, N8SRJ, and the other by Carlo Ulaszewski, xyl of Joe, KD8BAL. Linda, N8LRS, and Metro, W8MET, graciously donated a bottle of wine and a bottle opener. The wine went to David,

KD8ACO, and Mary Cegelski won the bottle opener. Peggy Shields, xyl of Scotty, WA8SLN, won a Micro Solder Tool, and my wife Sherr won a cordless soldering tool, which she loaned to me until she masters the technique of lighting it.

Thanks to everyone who helped make the picnic a success by attending; and special thanks for those who planned and it and did the work, especially George and Tom who stayed on their feet most of the night grilling and making sure the rest of us were well fed and happy. So if you missed the third annual C.A.R.S. summer picnic, plan to attend next year, it may even be better.

Below are some pics of the event.



**OH, THE POOR THING IS
SOOOOOO TIRED !**

This is a photo of Linda's, N8LRS and Metro's, W8MET poor tired puppy Trigger after Field Day this year. What a life!



GETTING TO KNOW...

Ray Ponzio, WD8IRA

Wobbly Oscillator: How did you become interested in amateur radio...who or what helped you get your first license?

WD8IRA: My exposure to ham radio occurred in 1956 when I became acquainted with a coworker at TRW. When I mentioned being in communications in the Army in WWII, his eyes lit up. It turned out he was K8DQP and suggested I take the Novice test, which I passed. Actually, I learned Morse code in San Francisco Trade School under contract with the Army. I spent three months copying CW and radio procedure six days a week.

WO: How long have you been licensed, and what class do you currently have?

WD8IRA: I have been licensed for 52 years, and hang on to your hat, with just a Novice ticket. I think I set some sort of a record. I just thought I could not upgrade. I tried several times at hamfests as a walk-in, but wasn't prepared enough, I guess. Not until 2007, when I signed up for a C.A.R.S. class, did I finally make Technician, and at 85 years old, a tribute to C.A.R.S. instructors.

WO: What do you like about amateur radio?

WD8IRA: For me, it is fascinating to listen in on the QSOs going on and how familiar the operators are with one another. Just like one happy family with a common interest. This is about all I can do at this time, since my antenna is not working for transmitting.

WO: What are your favorite bands/modes to work?

WD8IRA: I don't have any favorite bands. I've worked 80, 40, 15 and 10 meters, all with CW mode.

WO: What type of ham radio equipment do you own or use?

WD8IRA: My equipment consists of a

Yaesu747 SX going into a GAP DX-V1 vertical. I also have a Heathkit SB-200 linear amplifier and Denton tuner. My power unit is an Astron RS-35M. I have always operated barefoot. K8DQP was kind enough to leave me the linear, a great friend who passed away years ago. My keyed is a FJ electronic keyed paddle.

WO: Do you have any awards or certificates you want to mention?

WD8IRA: No awards at this time with regard to ham radio. I did get a certificate upon completion of the Morse code course in the Army.

WO: What type of work do you do, or if retired what was your occupation?

WD8IRA: I retired in 1988 from White Motor Trucks where I worked as a draftsman. I also worked for sub-contractors in conjunction with NASA.

WO: Do you participate in any CARS projects or functions.

WD8IRA: As a recent member of C.A.R.S., I haven't taken part in any projects.

WO: What other projects or functions would you like to see C.A.R.S. get involved with?

WD8IRA: It seems to me that C.A.R.S. is pretty much involved with current projects. If ever I'm aware of some worthy cause, I will make it a point to suggest it to the membership.

WO: Any additional comments?

WD8IRA: My introduction to Morse code was a little weird. I had come across a toy oscillator which I began to operate with dots and dashes. Several days later an officer arrived wanting to know who the operator was. I confessed and he asked me if I would be interested in going to radio school in San Francisco. This was the best thing I volunteered for in the Army.

WO: Thank you for taking the time to share you thoughts with our readers.

FIELD DAY PINS

The club will be ordering Field Day pins for all those interested.

The cost will be \$5.00 per pin. Please remit to Bob, W8GC, at or before the August meeting on 8/12/08.

73, Toby, WT8O - Field Day Chairman

CONGRATS TO METRO, W8MET

Metro Sinko, W8MET won a trophy for "BEST MOTORCYCLE" at a Brunswick Car/Motorcycle Show on July 26, 2008.

Way to go Metro...now bring that bad boy out to the August meeting (Wm provided) so we can all admire your ride. Ed.

AUGUST BIRTHDAY GREETINGS

KC8YSV William Sarver 8-9-44

KD8AJX Roy McClure 8-10-43

N8IS Steve Riley 8-11-66

KB8BMY Mike Thomas 8-12-60

KD8FTS Eddie Stevens 8-14

WB8N Tom Wayne 8-17-40

KA8EEW Richard Engum 8-21-38

KC8LAU Gerald Purcell 8-24-61

KB3KQS April Oliver 8-29-72

Many happy returns to you all !

BURO INFO

Submitted by Dwaine Modok, K8ME

Every United States Post Office sells envelopes named "Ready Post". The product code of the Ready Post envelope which is suitable for QSL Bureau use is number 93009258. This is a 6-inch by 9-inch envelope without clasps. For 90 percent of bureau users this envelope should be perfectly satisfactory. If you put 42 cents postage on this envelope it will be sent to you when five cards have accumulated for you. If you put a total of 59

cents postage on this envelope, you will receive it back with 14 cards inside.

VOLUNTEER EXAMINER REPORT FOR JULY

Congratulations are in order for seven amateur radio test takers. During the July VE test, held at our now famous Independence Town Hall meeting location, eight individuals showed up to take a test. By the time everything was graded we have 3 new Technicians, 2 upgrades to General, and 2 upgrades to Extra class. Add to all that excitement, 4 new C.A.R.S. VEs participated in the testing process--Steve Jones N8SRJ; Matt Webb W8EBB; Metro Sinko W8MET; and Jacob Wagner KD8CDC. Also present and adding precious training and support to the VE effort was K8DAV, W8GC, WB8N, WA8SLN, K8VJG, N8IS. Even N8LRS showed up to see if her husband was doing a good job.

Of course he was! Two father and son pairs showed up, with one of the pair being CERT training participants in Independence. One of the candidates for the test came from all the way from Madison, Ohio. We had one of our C.A.R.S member upgrade to Extra -- KD8ACO. The coffee was excellent as usual with Ron bringing in tasty donuts for the crew. Another very successful testing session and the C.A.R.S. VE team is growing again, proving to be one of the best in Ohio.

Submitted by Gary Dewey, NI8Z

HELP! THE FOX HAS ESCAPED!

By Mike Cegelski, K8EHP

The Woodchuck ARC is sponsoring a Fox Hunt to bag that pesky critter, which will be held on Sunday, 17 August at 14:00 Hrs. starting in the K Mart parking lot on Broadview Road just North of Pleasant Valley Road. The search will be contained within the boundaries of the Ohio Turnpike I-80, I-77, I-480 and I-71. Bring your radios, directional antennas, nets and shotguns (NO, no shotguns).

The hunt will be on two meters with the exact frequency to be announced. Come one, come all. Bring your friends. These things are a whole bunch of fun! C U There! There's a three hour time limit. If you ain't found the critter by 17:00 Hrs. you get to go home empty handed. Git 'er done!

RADIO LOSS: ALGERIA CANCELS HAM RADIO 80, 17 METERS PLUS UHF AND VHF

Submitted by Steve Spisak, K8SAS

Hams in Algeria have lost access to several popular bands. Bill Pasternak, WA6ITF is in the newsroom with more:

According to 7X5JF, Algerian authorities have revoked and cancelled all operating privileges for the use of the 80 and 17 meters as well as the various VHF and UHF bands. Telecommunications regulators in Algeria gave no reason for their action. Hams in Algeria are hoping for a quick return of privileges on these ham radio allocations.

Interestingly, 7Y46ND had previously announced that he would be on the air during July in commemoration of 46 years of independence in Algeria. His activity was to have included both 80 and 17 meters as well as the other High Frequency bands. No word on how the government action will impact on plans for 7Y46ND's in the air schedule.

OHIO SECTION NEWS

+++ Ohio QSO party +++

The 2008 Ohio QSO Party will be from 1600Z - 0400Z, August 23.

Operation will be on the non-WARC bands from 10M-80M using CW and SSB.

For the rules and list of prizes, go to www.oqp.us/.

As is true of most contests, OQP is in the mood in which it will graciously consider adding new sponsors to its list of awards.

ANOTHER SCHOLARSHIP AWARDED TO A C.A.R.S. MEMBER

Jacob Wagner, KD8CDC, Rocky River, OH
A 10-10 International Net Scholarship of \$1,000. Congratulations once again Jacob!
Jacob is going to attend C.W.R.U. in the fall.

+++ What is Amateur Radio? +++

Excerpted from Weaver's Words"

At the risk of boring you to tears, let's start at the very beginning (this ought to make a good song title). Ama-ture -- from the Latin, amo. Loosely means love. An amateur does something for the love of doing it. An amateur may be paid well, poorly or not at all. The key is that the task is done for the love of doing it. Ra-dio -- from radiate. In Amateur Radio, this refers to radiating an electronic signal from what has become known as a station. There is commercial radio, military radio, government radio, public radio and, best of all, Amateur Radio -- i.e. radio for the love of doing it.

Let's clear up a great miss-pression. This is, that all workers are either "professional" or "non-professional," and that Amateur Radio operators are non-professional. This misconception resulted from the corruption of the English language largely during the last half or so of the 20th century. The confusion and corruption has not cleared since the enlightened days of the early 21st century. It has been said that the French don't care what they say so long as it sounds good (the French language is beautiful). It can also be said that we Americans don't care what we say so long as we know what we (the speaker) intends to say. Neither position helps ensure accuracy of communication. In times past, calling a person a "professional" had nothing or at most, little to do with money. For example, even though we call paid baseball, football and other athletes "professional," none of them are "professional" in the true sense of the word. They are paid, skilled commercial athletes.

continued on next page...

Although we now call highly skilled craftsmen professional, this use of the word also differs from its true meaning. Craftsmen can be referred to as Master, Journeyman or Apprentice plumbers, carpenters, etc. Each term is a legitimate and appropriately complimentary title. Back in my rural, northwestern Indiana community, we didn't have Master or Journeymen craftsman. In our simplicity, we referred to appropriately-skilled people as being highly skilled, did good work or hire-"him"-if you needed something thrown together. The worker's skill level was well know, appreciated and rewarded. But, he was not a professional.

One could also add the term "artisan" to our list of categories. Artisans include good sculptors, real life or abstract art painters and musicians. They aren't professional. You know the people to whom I refer. The term "Professional" was limited to people who obtained special education that permitted them to perform at a different plane from those in the trades or crafts. Professionals included teachers, physicians, dentists, scientists, attorneys, ministers. This does not at all mean that highly skilled or trained non-professionals are slouches. They deserve great respect also. Where does this take me? Right back to Amateur Radio (hams). In my book, a radio amateur is a person who recognizes the value of the Amateur Service to the public as a voluntary noncommercial communication service. This especially includes providing emergency communication for no charge to the public or served agencies. As a body, Amateur Radio operators strive to continue and extend their proven ability to contribute to the advancement of the radio art and science. They encourage and improve the Amateur Radio Service through programs that facilitate advancing skills in both the communications and technical phases of the art. Their effort to expand the existing reservoir of trained operators, technicians, and electronics experts is a continuation and extension of their unique ability to foster international goodwill.

All this is what makes Amateur Radio operators true professionals.

Fabled newscaster and commentator Walter Cronkite, who narrates the CD "Amateur Radio Today," also states that hams are professionals. This statement is accurate in the true meaning of the word. We are professionals not because we are paid, but because of the education and training we have put ourselves through. Just as physicians, teachers and others I refer to as true professionals, every ham operator who holds an FCC license has what might be called a Bachelor of Science or Bachelor of Arts in Amateur Radio. Many amateurs have Ph.D's in Amateur Radio not merely because they are licensed, but because they have become self-educated to the degree at which they can out-perform a number of college-educated engineers. Amateur Radio -- a hobby? Yes, it is this and much more. It is a service; a service to the public, thanks to the discoveries, innovation and disaster relief activities we have performed and continue to perform. This line of thinking leads me to believe you and I are Professional Amateur Radio Operators in the Amateur Radio Service. We are not merely amateur radio operators. Many Professional Amateur Radio Operators have sub-training in Morse code, Digital Communication, Emergency Communication, Systems Design and Development and other facets of the degree. All of us are Professional, regardless of which, if any, sub-specialties we pursued or continue to pursue.

Don't let anyone try to tell you otherwise. To borrow a phrase, we are the proud, the few, the Professional Amateur Radio Operators.

AUGUST MEETING IN THE PARK

There will be hot dogs for those that want to partake...first come, first served. There is a limited amount, so get there early if you want a couple of free dogs !

THE RANDOM WIRE

By Tom Wayne, WB8N

RANDOM IS RIGHT!

Each month when I put the newsletter together, the last thing I do after editing everything else, is to compose the Random Wire. I have been writing this column for the Wobbly Oscillator for several years now, before I was an office holder and now as a board member. But the thing is, I never know what I am going to write about until I actually begin making words and putting them on the page. So the title of this column is really apt...it sure is random!

2008 TOUR de CURE STATISTICS

I have been informed that the 2008 American Diabetes Assn. Tour de Cure, which for the second year was a joint effort between the Cleveland Chapter and the Akron Chapter, was a huge success, raising more funds than ever before! The total raised this year is reported to be \$186,000! Let's hope that this money can help find a cure soon for this nasty and dreaded disease.

The next Diabetes Assn. event will be held in Cleveland, in October. I will be informing everyone of the exact date and other information. It will be the annual walk, in downtown Cleveland and will once again be originating from the Tower City Amphitheater. We'll need a bunch of volunteers folks, so keep it in mind! C.A.R.S. only does the two Diabetes Assn. events folks, so it isn't too much to ask to come out and help with these important events. I'll be nagging you all soon for the one in October.

SUMMER FUN

Well, with Field Day behind us, two of our summer "meetings in the park" history, and the third annual "C.A.R.S. Family Picnic" recently having become a memory, we only have one more, meeting at the famed Oak Grove Picnic area of the Metro Parks in Brecksville...the August meeting. I hope as many of you as possible will turn out for this last summer event of the Cuyahoga Amateur Radio Society. There will be free hot dogs to those that get there early enough...only have a

limited supply folks...we'll supply the dogs, buns, condiments and plates. If you want anything else such as baked beans, potato salad, etc., I suggest you bring your own. After the August meeting, we will be heading for the fall, and cooler weather, so it will be back to the Busch Funeral Home Community Room for the rest of the year, and until next June. Geeze, I hate to think about winter already, but it's a-comin'! We have had a great summer so far, and not even a little rain on the July meeting could keep us down...we still cooked out and there was a good turnout in spite of the rain and the fact that there was no electricity in the pavilion. So plan to come out to our last summer meeting in the great outdoors, bring your spouse, your kids, your neighbors, (maybe you can explain TVI to them...hi hi.) I'm gonna be bugging a couple of our members who always say they are going to be there but never can remember meeting nights. That means you Mike!

TIME TO GET OUTTA HERE

I am trying to get this newsletter out before dawn, and it is pushing 1:00 a.m. on a Wednesday morning as I am writing this, so I'm just gonna say 73 for now and see you on the air and or at the next meeting.
de Tom, WB8N

F O R S A L E

The following items are for sale by N18Z:

1) Radio Shack scanner Pro 2006 400 chnls with manual

2) Cushcraft vertical R5 10 through 20 meters with installation manual

3) Cushcraft vertical R7000 10 through 40 meters with installation manual

4) KenWood TS530 transceiver 150 watts out on all bands with extra driver and final tubes available if wanted.

5) 3 kW Antenna tuner MFJ 989B (I have this as an extra I used for Field Day)

6) Ameritron AL80B amplifier with new 3-500z final

All items priced to sell. Contact N18Z at 216-642- 8705 if interested.