

SUMMER PARK MEETINGS OVER - IT'S BACK TO BUSCH

FROM THE PREZ

With the summer ending, so will our picnic meetings, as we head back to the Busch Funeral Home Community Room for our September meeting. Personally for me, a major life change will be happening in the same time frame. I will be ending my professional career in a high stress, demanding position and beginning a more relaxed existence as an official retiree. I will now be able to devote more time to the amateur radio hobby.

I expect to be able to be on the air operating much more than I have been able to do for the last few years. Contesting and special events are activities I will be glad to back to. I will also have more time to devote to C.A.R.S. The club and the members have been a bright spot in my life since I joined over a decade ago. I have developed many friendships with people I have met in the club. I am now looking forward to further those relationships and participate in more club activities.

We have been changing our meetings to be more program orientated with less repetitive business.

We still have a ways to go, but the response from those who attend has been very positive. Our programs will be more technically based to enhance the radio knowledge of those present. We always ask for suggestions and opportunities for improvement, but the feedback is still sparse. Please think about ways you would like to see the club improve and bring those ideas to the meetings, weekly nets or with communications to the officers or board members.

We will be again providing communications for the Diabetes Association's fund raising walk in early October. If you have helped with this event

in the past, thanks for efforts and we hope to see you again this year. If you have not participated, please consider joining us this year. All you need is an HT or mobile rig and you'll be in business. We will be glad to help you out if you need, so there is no reason to be intimidated. I can guarantee one thing, if you have never done this type of event and feel a little shaky; when it is all over you will be glad you came. You can contact Tom Wayne, WB8N to volunteer for this event. There is more information on this event elsewhere in this issue of the W.O.

73, Toby, WT8O

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MEETING REMINDER....SEPTEMBER CARS MEETING IS ON TUES. SEPT. 11th, 7:30 P.M.

MINUTES OF THE AUGUST MEETING

The C.A.R.S. Membership Meeting was called to order by President Toby Kolman, WT8O, on the 14th of the month at 7:45 pm. The meeting was held at Harriet Keeler Picnic Area, In the Brecksville Reservation of the Cleveland Metro Parks in Brecksville, Ohio. 35 members and 5 guests were in attendance. The picnic attendance held on July 27th had 33 members & 12 guests.

After introductions the July minutes were approved as published in the July Wobbly Oscillator by Toby, WT8O.

Bob, W8GC, gave the Treasurer's report and reminded all to please consider purchase of the gift card program, of which the club gets a certain percentage. If this program is successful, this will help on cost of the scholarship fund and cover the cost of the picnic or Christmas party expenses. At the September meeting Dave, NF8O, will give an in depth review of the gift card process.

Remember September meeting will be back at the Busch Funeral Home Community Room on Ridge Road just south of Pleasant Valley Road in Parma, Ohio for the winter meetings.

Toby WT8O, mentioned about having a dinner meeting once in while. This will be discussed at the September meeting.

Toby also asked for members to have respect for the meeting, that any conversations should be done before or after the meeting.

VP Gary, NI8Z announced the presentation for the evening to be on "SDR" Digital communication and what type of radios and terminology review of the different digital applications.

There was no Sunshine report .

There was a special meeting of the Board as to approve or not approve spending \$225.00 towards a new antenna for the Copley High School. The expenditure was approved. Copley High School will cover the majority of the cost.

Toby announced about formulating a program committee, and Eddy, KD8FTS, will be head of the Public Service committee. Eddy has list of events coming up and he reported on the results of the Pedal to the Point event in which there were over 3000 participants. Contact Eddy, KD8FTS if interested in volunteering to work a public service event.

Toby, WT8O, asked the club to thank the

refreshment committee: K8VJG, K8DMT, and WB8ROK. They were given a round of applause.

With no other new or old business Toby declared the meeting adjourned at 8:14pm.

After the meeting the 50/50 winner was James "Buffalo Jim" Glor, N8GXR, from Buffalo New York. His portion was \$42.00, with CARS share of \$42.00 added to the treasury. Jim comes down from Buffalo occasionally to pay us a visit. He is a long time member of CARS and is the president of his home Amateur Radio Club. He helps with the Diabetes walk every year as well.

Gary, NI8Z, then put on his program was on Software Defined Radio's along with the help of Ron Boehlein, WA8ZJV.

Submitted by Dwaine Modock, K8ME, Secretary

Remember to Please help Fund our Scholarship Fund as well as other CARS functions by purchasing a few gift cards each month. Find details on the www.2cars.org home page.

THE REST OF THE TRIVIA

Contributed by Steve Spisak, K8SAS

The following is more information on the trivia question on August 22nd CARS Net.

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I doubt whether too many users of HF radios would have heard of the name Alf Traeger.

The inventor of the Pedal Wireless, Alfred Hermann Traeger, was born at Glenlee, Victoria Australia on August 2nd 1895. Alf's family moved to a farm near Balaklava in South Australia and it is believed his transition from schoolboy to communications genius occurred when at the age of 12 he successfully set up a communications link between the house and an implement shed 50 meters away. Bits and pieces from around the farm were used to make a

continued on next page....

microphone and earpiece. The diaphragm for the earpiece was ingeniously made from a tobacco tin lid, the magnet was the prong of a pitchfork, while the carbon for the microphone apparently came from the kitchen stove.

When he was 16 Alf commenced studies at the Adelaide School of Mines and at the age of 20 graduated with a Diploma of Electrical Engineering. During his studies he became interested in the work of Guglielmo Marconi & Heinrich Hertz into the nature of radio waves. Alf went on to become an Amateur Radio Operator with the callsign VK5AX, and during his amateur radio career Alf was a member of the Wireless Institute of Australia - the oldest amateur radio society in the world being established in 1910.

For his final practical examination at the School of Mines, Alf had to build a high voltage generator and it was this that led to him being introduced to the Reverend John Flynn in 1925 while he was employed at Hannan Brothers in Adelaide. Alf went on to invent a low cost pedal driven generator capable of producing about 20 watts of DC power to run a HF transceiver which could be used at remote stations all around Australia. The future of communications in Australia - the Pedal Wireless and the Royal Flying Doctor Service was decided by the ingenuity of Alf Traeger, and the vision of the Reverend John Flynn.

In 1929 Alf installed the first RFDS base station at Cloncurry in Queensland, he then traveled to the outposts, installing sets and teaching the users Morse code and how to use the sets. Alf continued to supply transceivers to the RFDS until he retired in 1975, however the name and the radios did not end at that time. Traeger Transceivers produced many models of radio over the years and many of these are still in regular use by travelers in the Outback. Models such as the Safari, the Lynx, the 5x5 are common outback names however one name, the 'Scout' is the one that many people will have heard about. The Scout started life as the 'Traeger Scout', following the closure of Traeger Transceivers the model continued as the 'Tracker Scout'. being made in Adelaide by Tracker Communications. Eventually Tracker closed and the manufacture of the Scout continued, this time under the label of Scout Communications (Oz Electronics Manufacturing) in Brisbane. In 1999

the Scout is still in production, and interestingly the design has not changed (except for the color of the case) since the first model that left the Traeger factory more than 20 years ago.

CARS MEMBERS BECOME LOCAL CELEBS

By Tom Wayne, WB8N

The September issue of the Independence Today Magazine has a feature article about Ham Radio. On the cover of the magazine is a photo of CARS members Linda Sinko, N8LRS, and her husband Metro Sinko, W8MET, posing in their radio shack. I tried to get permission from the publisher of the magazine to use the cover photo but was denied permission. There were two photos in the article which I have included here, as they are the property of Linda and Metro.

In the article it mentions that Linda and Metro are members of the Cuyahoga Amateur Radio Society and they even give the URL to the CARS website.

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The article mentions that Metro helps administer amateur radio license exams at the Independence Old Town Hall on the second Sunday of every odd month. The article states that Metro became interested in ham radio when he was 15 years old and quotes him as saying "I heard Morse code on my parents old hi-fi. It was like hearing another language. After that, I picked up a book about it and studied it during study hall at school." Metro bought his first radio in 1968.

Linda got her Amateur Radio license in 2005, shortly after she and Metro were married.

Linda and Metro reside in Independence, Ohio and the article stated that there are over 100 hams living in the Independence, Broadview Heights, and Brecksville communities. The article also had quotes and a photo each of two other area hams; Ralph Dey, K8YSM, of Broadview Heights and Kirk Sanderson, W8WNA, of Brecksville.

SWR, all bands are within 1.6:1 SWR. Much improved!

A separate 150ft coax was run to the roof to connect to a dipole antenna that has yet to be installed. (Time and rain stopped the finishing of that install). Return date to be determined. The two meter radio works well at the CMS. The 2 meter/70 cm beam antenna there needs to be connected to the rotator control box that was missing but now has been found. So both school radio stations are in good shape and are ready to work the School Roundup in October. *continued on next page...*

COPLEY SCHOOL UPDATE

By Gary Dewey, NI8Z

C.A.R.S. members Tom Wayne, WB8N; Metro Sinko, W8MET; Steve Jones, N8SRJ; Ron Boehnlein, WA8ZJV, and Dr. Dave Dressler, KD8V; gathered at the Copley High school over several days to construct (put together, there are lots of parts.) and install the new Cushcraft R8 that was purchased for the H.S. radio station WA8CHS.

The vertical is now up and is working at near perfection after some minor tweaking. A two meter J-pole antenna which had a very high SWR, was replaced by a new J-pole to give the H.S. ability to check into the CARS repeaters and contact other students at the middle school station.

W8MET, WB8N and myself went to the CMS. Dave and Pat Dressler helped to open up the Copley Middle school radio station so changes could be made to improve the vertical antenna for HF. We took the old coax out and installed a newer coax. We found the ground wire had been completely cut and was not making any contact with the ground rod. New 10 awg wire was reconnected to the radio room ground bus and the ground rod. After rechecking the coax for



J-pole at the CHS



R-8 antenna before being mounted.



R-8 being mounted on the high school roof.

Editor's note: After leaving the Copley High School the "antenna team" moved on to the Copley Middle School to put up a dipole antenna. After several tries to shoot a golf ball over a large oak tree in the front lawn of the school, in order to hang the dipole, they finally gave up in frustration and for lunch, which was graciously provided courtesy of the school principal. There are now two yellow golf balls living in the bowels of the oak tree, which will become evident when the tree sheds its leaves this fall, which is when the crack team will once again attempt to hang the dipole antenna.

WORKING THE OHIO QSO PARTY

By Metro Sinko, W8MET

Saturday, Aug 25, the day OHIO is sought after for points in the OHIO QSO PARTY (OQP). This was a chance to work as many of the 88 counties in Ohio Gary, N8IZ, and I, W8MET, for a 12 hour period from noon to midnight, worked 47 states except Delaware, Nebraska, and Alaska on CW (176 Q's) and SSB (351 Q's) and 65 Ohio Counties out of 88. Most of the counties not worked were West-NorthWest and East-SouthEast. The rig was a Yaesu Mark 5, running high power, about 1000 watts into a SteppIR Yagi about 35 feet high. The N3FJP logging program was of great value. This logging program is excellent to use for any state Qso party contest and worked flawlessly. The program shows a color map of the counties as well!

We almost did a W.A.S. (Worked All States) for this annual event. We managed 530 QSO's total.

We also worked some C.A.R.S. members: Tom WB8N, Dwaine K8ME, George K8KR, and Dave NF8O. Also, Jim Weaver, W8JE, who is the ARRL Great Lakes Director, called us! We worked Hawaii and two German stations, which called us, plus many parts of Canada all of which was a super bonus. Many Kansas stations called us as well. They were having their own QSO party as was Hawaii.

Nothing was heard or worked on 10 or 15 meters. Primarily the antenna was working East

and West. Most of the counties not worked were West-North West and East-South East.

Sometimes the pile up was hectic.

An automatic keyer was used to call CQ on CW and a voice keyer on SSB and it gave us time to make sure the logging was caught up. The activity was fast and furious, almost to the extent that it was difficult to take a break to eat. Hourly rates were very encouraging.

This a great way to learn how to deal in a contest situation by exchanging signal reports and a serial number. Think of this as practice towards working other contests and the main event; Field Day.

There are many contests each month which are published in the QST Magazine under "Contest Corral". These contests are open for all licensed Hams. Try it, you'll like it!

DEER TRACKING IN THE METRO PARKS

By Mike Kemmett, KD8OUE

I

can't believe I really volunteered. And I actually liked it!



At the April 2012 CARS meeting, Sara Kennedy (Wildlife Research Coordinator at the Cleveland Metroparks) gave a presentation about the West Creek Reservation pilot project for tracking the deer population, and mentioned the need for volunteers to assist with the project. (That's Sara carrying the radio and holding the antenna in the picture above). The project involved tracking deer as part of a

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movement and survival study. Fawns and does in the area would be wearing radio collars, each with a unique frequency.

By tracking them with radio-telemetry their movements could be followed.

The entire setup sounded kind of cool. They would have tiny radio transmitters that would fall out of the womb when the fawn was born, so they could be located and collared. These tiny transmitters were temperature sensitive, and would emit a faster beep once they came out of the womb, which alerts the researchers to the birth. The fawns would then be collared with special fawn collars that expand as the fawn grows and would fall off after about eight months. The collars are also movement sensitive, and if one of the fawns doesn't move for a period of time, the collar will emit a faster beep signal. This alerts the researchers to the possibility of a fawn's death. From what I gathered from the presentation it appeared this project was pretty well thought out.

I did a bit of research on the Internet, because that's what I do when I want to get quick information on a subject to which I'm newly exposed, and here's some of what I discovered: Yes, white-tailed deer are native to northeast Ohio. By the early 1900's the deer population was almost non-existent, mainly due to natural predators and, pretty much unregulated, hunting practices during that era. As land use changed, and hunting became more regulated, the deer population began to recover during the 20's and 30's. But near the 1980's the numbers of deer per square mile started to reach excessive levels, probably because there was little threat to adult deer from natural predators. Hunting pressure also declined as the region became more urbanized.

In the greater Cleveland area deer have adapted very well to life in the city, as well as the parks, as I'm sure anyone who has a garden in areas near the parks can tell you. And without major threat from natural predators such as coyotes, or

major pressure from human hunters, their eating habits have a negative impact on native plants and other native animal species that depend on those plants.

Active deer management began in the late 90's in an effort to decrease this negative impact. The West Creek pilot project will gather data to determine doe movement in and around Park District property, and estimate fawn survival and possible causes of mortality during fawning season. Using radio-transmitters, the Metroparks will monitor pregnant does to enable collaring of 17 new fawns.

From the description of how the tracking was done, I equated it to fox-hunting. I've never done fox-hunting or any radio direction finding (RDF) for that matter, so I wasn't sure if this was for me. As the ARRL web site explains, "Radio direction finding is used to find sources of interference to any form of wireless electronic communications, including broadcast and two-way radio, television, and telephones. It is also used to track missing or stolen cars and other property. Search and rescue workers use it to find persons in distress. Emergency Locator Transmitters in downed aircraft are tracked with RDF techniques."

If I wasn't a bit intimidated by RDF before, after reading descriptions like the one above, I certainly was now. Sounded wa-a-y too technical for a new Ham like me. But, I do use (and thoroughly enjoy) the Metroparks, and love the great outdoors, so decided to take the leap and volunteer for this project. I figured I could enjoy the outdoors, and at least get a peek at this RDF stuff.

The first thing to do was to attend a training session being provided by the Metroparks folks. During the session we were given instruction on operation of the radio and antenna that would be provided, as well as how to use a compass. Sara had hidden a couple of the radio collars somewhere on the training site, and we had to locate the collars using

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the skills we just learned. Interesting time for everyone attending. Sara had cleverly hidden one of the collars inside of a parked vehicle, to demonstrate techniques that may be useful if the deer we were tracking happened to be very close to where we were taking the readings.

The first few times that I went out, we did what they called 'fawn sweeps'. We lined up side to side and walked through the woods looking for any fawns that may be around. Oh, did I say 'walked' through the woods? What I should have said is we 'hiked' through the woods. Up and down hills, through brush and brambles, and across mud fields, and streams. I thought, 'I didn't sign up for this.' I thought I was going to be doing RDF. What did I get myself into? But, it really was a good time. Was able to enjoy the great outdoors, meet some of the other volunteers, and even got some much needed exercise. All-in-all, a great experience. Although, one doesn't have to sign up for the 'sweeps' to participate in the deer tracking project, I would do that again. The next month I got to give the RDF a try. Hmm, not at all what I thought it would be. I don't know exactly what I thought, but this certainly wasn't it. This RDF wasn't as difficult as it sounded. I just had to tune the radio to the frequency of the collar I was looking for, point the antenna all around until I could hear the signal the loudest. Then using the compass provided, get the bearing of the signal. Don't know why I was ever intimidated by RDF, perhaps because I've never experienced it, and being new to Ham Radio, figured it must require special radios, and antennas, and such, (i.e. must cost a lot of money). But I see now, that's not the case, and in fact it's really pretty simple stuff. The project involves driving around the area of Parma that surrounds the West Creek Reservation of the Metroparks, and stopping at certain spots to locate the radio signals. The West Creek Reservation is bounded by Broadview Rd, State Rd, West Pleasant Valley Rd, and West

Ridgewood Dr. The Metroparks folks provide the radio, antenna and compass, as well as maps of the area that are marked with spots where deer were collared. The frequency of each of the collars is printed on the map near the spot they were put on the deer. Drive to the spot on the map, take your readings, drive to another spot, repeat. Most of the deer we were tracking only required us to find the signal and take a bearing as we only needed to know the deer was still alive.

However, there are some of the deer that we were required to triangulate to determine where, and when, they were travelling. This did require us to take a reading at one spot on the map, and then drive to different spots to get other readings. It was good having two of us on a shift. One to drive and the one to navigate with the maps. One great benefit of this activity is the numbers of deer seen browsing in the neighbourhoods. It's always awesome to see wildlife roaming free. (And those fawns were so cute). Sometimes the residents would come over to ask us questions about what we were doing. The people were very friendly, and genuinely interested in what we were doing, and I just answered the questions as best I could. (Secretly I was tempted to tell them we were looking for aliens, or keeping aliens away). After awhile we became known as 'the deer people', as a few of the children would call us that.

There are various scheduled shifts during each day, and each shift usually takes around 2 to 2 1/2 hours for the two volunteers on each shift to complete. Not too long of a time to spend, and with various shifts to choose from, a bit more flexible than many volunteer activities.

I'm pretty sure I'm not the only member who feels this way, but getting out amongst people that I've never met has never been the easiest thing for me to do. This time, I'm glad I took the plunge. This project is a great way to learn a bit about RDF in an easy going casual setting, meet interesting people, and be involved in a public service activity. It's entirely a Win/Win!

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Volunteers, including members of local radio clubs, play a crucial role in this project, accounting for more than half of the time spent tracking deer. New volunteers are welcome at any time, and no prior experience or special equipment is required. Anyone interested in volunteering should visit <http://www.clemetparks.com/volunteer/index.asp>

2012 STEP OUT: WALK TO STOP DIABETES

By Tom Wayne, WB8N

This year the annual Cleveland Diabetes Assn. walk will be on Saturday, October 6. Once again it will begin at the Galleria on E. 9th St. in downtown Cleveland. CARS will once again be providing communications along the walk route and volunteers will be needed. All you need to volunteer for this public service event is a hand-held 2 meter radio and perhaps an extra battery (fully charged of course). If you have a 2 meter mobile rig in your car, so much the better! Hopefully, the weather this year will be better but we will be there rain or shine. Last year the wind blowing off Lake Erie and down E. 9th St. almost knocked me off my feet!

If you can help out this year, please send me an e-mail to wb8n@2cars.org or give me a land line at 440-232-4193. I'm expecting to hear from all of you that came out last year. I will be mentioning the walk again at the Sept. CARS meeting and will answer any questions anyone may have.

A RIDER'S VIEW OF THE PEDAL TO THE POINT

By Matt Webb, W8EBB

I did not have an HT with me during the ride. When you are riding they encourage you not to have radio's and things of that nature on you so

that you can hear people around you if they are shouting about oncoming cars and people passing. But I did see somethings with Amateur Radio at work. I personally have been trying to get myself in shape and I saw the Pedal to the Point as a good opportunity to both meet my personal goals as well as raise money for the MS Society. Having only been cycling for about 2 months, the Pedal to the Point presented a huge challenge to me. But when I spoke to people about it, they said the event was very well orchestrated as far as all of the logistics and support and that if something was to "go wrong", there would be someone there to help.

I saw amateur radio come into play with SAG Wagons (Which I am told SAG stands for "Supply And Gear"). The purpose of the SAG wagons is to assist riders who either have mechanical issues or to help those who might have some type of physical/medical issue along the route. I noticed that just about all of the SAG Wagons had amateur radio antenna's on the vehicles, and I did notice a few amateur license plates. But I thought about how convenient it would be to get the proper help if needed by having the support of the SAG Wagons along the route when you have a transceiver at your disposal. I did notice people needing assistance and never far behind was the support group. So being an amateur myself, and being a cyclist for once, it was very relieving to know that all of this was happening in the background, and again if I needed any help, it was not too far behind.

To go the nearly 80 miles from Brunswick High School to Sandusky High School took me just over 5 hours of riding on the bicycle. Next year I plan on doing the entire 150 miles there and back. But again I plan on doing so knowing that amateur radio is playing a huge part in the support and the success of all of the riders involved, and also in the success for the MS Society to raise funds to find a cure for MS. So thank you to all of those who participated, wether it was cycling, support, or donating to the cause.

If anyone is interested at looking at the route that was traveled, I track my rides and the link for the Pedal to the Point ride can be seen at this link: <http://bit.ly/PTpoiH>

***BE SURE TO CHECK INTO THE CARS
WEDNESDAY NET AT 9:00 P.M.***

**CARS MEMBER BECOMES SILENT KEY
CARS MEMBER BECOMES SILENT
KEY**

CARS member Skip Cook, KC8WBF, became a silent key on August 28th, at home. Skip was a U.S. Navy veteran, an Eagle Scout, 32nd degree Mason and retired owner/operator of Cook Bonding and Manufacturing Co. in Cleveland. Skip was a relatively new ham and member of CARS. He was 76 yrs of age. His funeral was Friday, August 31st. Our condolences go out to his family.

THE RANDOM WIRE

By Tom Wayne, WB8N

AUGUST, A BUSY MONTH

Yes, August was a very busy month of ham radio related activities for me, and I know a few others as well.

There were several public service events that took place during August, which I did not participate in but know of others that did. I spent a lot of time traveling down to the Copley-Fairlawn school district along with other CARS members, to help put up antennas and check out the school stations, which by the way, are in excellent shape for the school club members now. An attempt was made to put up a dipole antenna at the middle school, but alas, this was not to be. I must say that I laughed a lot, much to the consternation of a certain fellow "antenna team" member who shall go nameless. (His call is NI8Z.) All I can say for now, is that those two yellow golf balls will look pretty funny hanging in that big oak tree in the fall when the leaves fall off the tree.

It was a lot of work, but we had fun doing this for the students. It's a good thing that a couple of our antenna team members were younger than us "more senior" members.

Then there were the contests, a few of which I worked for as long as I could, including the Ohio QSO party. I wasn't able to spend a lot of time on this one, but I worked 40 counties, one contact in Hawaii, and two Kansas stations as well as working Metro, W8MET, on 40 meters CW.

Coming up this month is the Ohio State Parks on the air, on Sept 8th, from noon to 8:00 p.m. local time. If you can't get out to a state park and set up a station, at least give a contact to those that are operating from the state parks.

TIME FLIES WHEN YOU'RE HAVING FUN!

So now we are into September, and the days are dwindling down to a precious few, to steal a line from the song. Wow! Where did the summer go? No more picnic meetings in the Metro Park until next year. By the time this issue of the Wobbly Oscillator comes out, Labor Day and the annual air show will be in the "ago" category. The Cleveland Hamfest at the Berea Fairgrounds will be here on Sunday, Sept. 23rd. and next month is the American Diabetes "Step Out: Walk to Stop Diabetes", which you all know CARS participates in as volunteers, providing communications along the walk route.

I'M A LITTLE DISAPPOINTED

Last month I sent out a request for members to send me something on their experiences of working the Pedal to the Point public service event, and doing the deer tracking for the Cleveland Metro Parks. I got one *fine* article from a member who participated in the P to the P event as a rider, and another *fine* article from a member that has been doing the deer tracking. That was it! My intention was to take all the items sent me on the P to the P event and consolidate them into one article, giving credit to all that had contributed. Oh well, better luck next time. Many thanks to Matt Webb, W8EBB, and Mike Kimmett, KD8OUE for their contributions.

That's it for this month guys and gals. Hope to see you at the Sept. meeting and hear you on the repeater. 73, de Tom, WB8N

The Wobbly is a monthly newsletter published by Bob Check, W8GC, & edited by Tom Wayne, WB8N, for the Cuyahoga Amateur Radio Society, P.O. Box 31264, Independence, OH 44131-0264. Articles appearing in this newsletter may be reprinted in any Amateur Radio related publication, provided that credit is given to this newsletter and to the author, if known. All submissions should be e-mailed to