

*September 2014*                      *Volume 44*                      *Issue 9*

# THE WOBBLY OSCILLATOR

## SEPTEMBER MEETING BACK AT BUSCH

**FROM THE PREZ**

Participation is the key to the success of any organization. And although our club has a core group of members that are involved in almost every club activity, the majority of C.A.R.S members are the silent type. This topic came up from a discussion with a new member. He wondered why so few people attended the summer picnic. Good question. He did not even realize the picnic organizing committee was burning up the phone lines to contact members and request their presence. The picnic was free to all members, in a beautiful place and the food was excellent: not my opinion but in the comments of many of those who attended. I want to get feedback from members who did not attend as to why they did not. This will be brought up at the September meeting, so have your comments ready. Also, any opinions, about any subject, can be emailed to me, and I certainly like hearing them since I consider it a form of participation.

The nets are another mystery and concern for many who participate regularly as to why so many members choose to avoid checking in. Our VP has brought this up several times at meetings. We do have a pretty good sized group every Wednesday, but a lot of those who check in regularly are not C.A.R.S. members and the ratio of club members to net check-ins could or should be a lot better. A lot of members check in every week, many check in almost every week, some check in frequently,

and others check in occasionally. It's the club members that never check in and have two meter, 440 or Echolink capability that this is being directed to. It may be of interest to some that the Board of Directors voted to keep Echolink especially for the purpose of out of town members being able to check into nets. Come on folks; let's really get the waves moving on Wednesday nights make our nets even more successful. *Continued on next page...*

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**NEXT CARS VE SESSION,  
 SUNDAY, SEPT. 14, 9 A.M.  
 INDEPENDENCE OLDE TOWN  
 HALL, BRECKSVILLE RD.**

One area that is improving as far as participation goes is the monthly meetings. We believe this is because of the excellent job our program committee is doing, providing an interesting presentation at every meeting. The committee is always looking for topics to present, so please, if you have anything you would like to see please contact Mike, KD8OUE, the program committee chairman. And speaking of meetings, don't forget the September meeting will be back at the Busch Funeral Home in Parma. Hope to see you there,

73, Toby, WT8O

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### **AUGUST MEETING MINUTES**

The CARS membership meeting was called to order by President Toby Kolman, WT8O, on the 12th of the month at 7:31pm. The last summer meeting was held at the Harriet Keeler Pavilion in the Cleveland Metroparks Brecksville Reservation. There were 24 members in attendance. Don't forget, starting in September the meetings will be back at the Busch Funeral home.

After introductions, the July minutes were approved as published in the July Wobbly Oscillator by Toby, WT8O. The pledge of allegiance took place before the meeting.

Toby gave the treasurers report. The December 5<sup>th</sup> Christmas Party reservations sign-up will start soon. The cost will be \$20.00 per person with CARS picking up the difference. More details/sign-up will appear on the cars web-site.

CARS held a special event station at the Cuyahoga County Fair on August 8,9,& 10. The station was powered by the wind turbine and solar array located on the fairgrounds. (*More on this elsewhere in this newsletter...Ed.*)

Toby, WT8O, reported that CARS participated in the Seven Hills Home days on July 25,26,27. Members were parking cars besides having a radio station on display.

Members were asked to send a get well cards to Betty Check to cheer her up.

The following stations signed up for the W1AW/8 Operation; Gary NI8Z, Metro

W8MET, Tom WB8N, Dwaine K8ME, and George, K8MR.

There were two new members to be voted on; Scott Smith, AC8NW, and Wendell Ebersole, W8NDL. Both were voted into CARS as new members. Welcome!

Eddy, KD8FTS, reported on taking part in the Pedal to the Point public service event which went well.

Toby, WT8O, mentioned that the constitution committee will be finalizing it's work and the revised constitution will be presented at the September Meeting and placed on the web-site.

Brandon Hofacker, KD8JDW, was a CARS scholarship winner and he was at the meeting to thank all for the scholarship. Brandon is a graduate of Copley High School, is an Extra class amateur, and will be entering Ohio State University.

Toby mentioned that any members needing help with, or advice on a purchase of new or used equipment, or help in any way, to let someone in the club know and arrangements can be made to help.

Toby asked the members present to thank the refreshment committee: K8ME, K8DMT, and WB8ROK.

There was no 50/50 Raffle as it seems the person with the 50/50 tickets left them at home. (*No names mentioned, but you know who you are. Ed*)

Meeting adjourned at 8:24 p.m.

After the meeting very interesting demonstration of slow scan television was presented by Roger, N8TCP, and Gary, NI8Z

Submitted by CARS Secretary, Dwaine Modock, K8ME.

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***Next meeting at the Busch Funeral Home Community Room, Tuesday, Sept. 9th, 7:30 P.M. See you there!***

## **CARS SPECIAL EVENT STATION**

By Tom Wayne, WB8N

Over the weekend of August 8, 9, & 10, CARS ran a special event station called "FAIR WINDS Green Energy Special Event", from the alternative power facilities located on the fairgrounds of the Cuyahoga County Fair.

The station was located inside an air conditioned building used to inform visitors about the 500 Kilowatt wind turbine and the solar array located on the fairground property. The station consisted of a 100 watt HF rig, with a 40 meter dipole strung up between two trees just outside the building. Power to the building and to operate the station was provided by the wind turbine and the solar panel.

Using the CARS callsign of W8BM, the station made contact on 40 meters phone, with close to 450 stations. The station operators were: Toby, WT8O; Gary, NI8Z; Tom, WB8N; George, K8KR; Metro, W8MET; Dick, W8RWK; Mark, WJ8WM; David, KD8ACO; Mike, KD8OUE; Andy, KD8SCV; and Ron, K8VJG. The operators took turns operating and logging. When not "on duty" at the station, the operators were free to wander about the fairgrounds and take in the exhibits and partake of the food available by the many vendors. One operator who shall go nameless, (but his call is NI8Z) visited the goat exhibit and after he left the building, a little goat was heard to be calling "Garry, Garry".

The radio and the dipole antenna worked without incident the entire time of the event, and the antenna performed even better than expected.

All in all, everyone had a great time operating and attending the Great Cuyahoga County Fair. I think almost all of those involved spent a little mola at the fair as well. I know I did, in the form of food, liquid refreshment, and a T-shirt and a jar of honey.

Presently, as QSL manager for W8BM, I am in the process of sending out QSL cards and certificates to those that requested them. So far we've had over 40 requests. We're going to try to do this again next year, as it seemed to be such a success, especially for our first try. A lot of the contacts we made seemed interested in the concept of using wind power and solar power, and some even asked questions about our operation.

Below are a couple of photos of the station and the facilities.



Toby & Mike at the helm



Wind Turbine from inside the alternative power building.



Alternative power building & wind turbine

## SEPTEMBER BIRTHDAYS

Dennis Rabbets    KD8APY    9-11-49

Jeff Bolek        KD8GIR    9-21-50

Robert Kobe     KD8NBB    9-26-46

Richard Koharik   KD8VIP    9-25-47

***Congratulations to all and many happy returns!***

### THE RANDOM WIRE

By Tom Wayne, WB8N

#### BYE BYE SUMMER

Yep, summer is almost over. Where did the summer go? Or what summer? We sure didn't have much of one, that's for sure. It was wet and cool, too wet and cool for growing tomatoes! I managed to get some, but they weren't as nice and tasty as they should have been.

#### LOT'S OF ACTIVITIES

We did have a lot of amateur radio related activities this summer; Field Day, the CARS Family Picnic, the Fair Winds Special Event Station at the Cuyahoga County Fair, some of us taking part in the W1AW/8 operation as part of the ARRL centennial, and the meetings in the Metro Park, which have come to an end for the year by the way. That's right...our next meeting will be back at the Busch Funeral Home Community Room, where the meetings will be held until next June.

Old antennas were taken down and repaired, new ones put up, experienced CARS members helped newer members with setting up their stations, putting up antennas, and helping each other in many ways.

#### AMERICAN DIABETES ASSN. WALK

The Diabetes Assn. walk is coming up once again folks. This year it is Saturday, October 25th, and will be run out of the Cuyahoga County Fairgrounds in Beret. There will be more information regarding the walk, the route,

etc. at the October meeting. I'm looking for the help of the usual suspects to volunteer to help out with this event again this year.

#### PROGRAM FOR SEPTEMBER MEETING

The scheduled program for the Sept. meeting will be on AMISS (Amateur Space Station) by Eddie Stevens, KD8FTS. This should be a very interesting presentation. Be sure to be there.

#### OUTTA HERE FOR THIS MONTH

That'll about do it from me this month, so I'll just say, hope to see you at the next meeting, hear you on the repeater, and hopefully you'll check into the CARS Wednesday evening nets at 9 p.m. 73, de Tom, WB8N

### EXCERPTS FROM THE GEARVAKf (the f is Silent) BULLETIN

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*RF Lubrication in Amateur Radio Applications, by Dr. K. Y. Djhellil, Important Scientist.*

In the UHF and microwave spectrum, RF lubrication has been used for some years as a relatively inexpensive way of increasing bandwidth and eliminating the problem of missing and/or dropped data in digital circuitry. Back when analog transmission was the common medium, dropped data was not so critical since the sinusoidal waveform was, in a sense, self correcting (S0) (cosign theta) -  $R1 + R2/R1R2/H0 \pm \text{constant } 4.6 \text{ ohms}$ . But we now live increasing in the digital age, and missing data cannot be tolerated. Thus, it is incumbent upon the transmission mode that it be error free. Hence, the mandatory use of an RF lubricant in all components to ensure the free flow of electron travel and unencumbered data stream. In the commercial world of data handling, this has been apparent for some time, but in the amateur press such as *QST* and *CQ Magazine*, the topic has hardly been treated.

*Continued on next page....*

However, in the British amateur radio magazine, *Accumulator New*, Dr. J. C. Pennae, in the August 2005 issue, discusses RF lubrication in his thoughtful treatise entitled "Grease and Go". Frustrated radio amateurs wondering why their packet, Amtor, PSK-31, and similar transmissions sometimes arrive garbled or with missing portions, would do well to begin lubricating their own circuitry, especially antennas and transmission lines. Adding an RF standard lubrication factor of L.3 to the basic  $E=IR$  and  $I=E/R$  equations, one now gets  $E=IR \times L.3$  or conversely,  $I=E/R \times L.3$  for an acceleration factor of 1.9 or R.3, depending on the diameter of the transmission lines and the effective bandwidth of the antenna, as  $LC/RC \times L$ . (alpha), with alpha as the coefficient of RF friction as opposed to the coefficient of RF friction. Bosco Gravura, in his work, *RF Propagation in Nonferrous Applications*, proved beyond a doubt that aluminum could not compare to gold, silver or even copper, as a radiating element. But with the judicious application of an RF lubricant, the acceleration factor could be increased threefold on both receive and transmit applications. Or, Consider the standard coupling network  $2Xc/S$  [sa1] [sa2] [sa3] or sine 222d/cosine 342. With the application of an RF lubricant, the acceleration factor may be increased by 3.5. The lesson here to radio amateurs should be obvious. In this digital age, every bit of data is important. If generous application of an RF lubricant can ensure error free transmission and reception, who would want to be without it? Apply it generously to all radiating and frequency controlling surfaces, especially on frequencies above 14 MHZ . You will find power output for effective communications may be reduced up to 35% and accuracy increased up to 60%. [Ed Note: Dr. Dhjelli si currently a scholar-in-residence at the GEARVAKf Technical Institute and the Gorbinski Academy of Recycling Kineseology (GORK).] ....N8JR/SK

#### **HAVE YOU RENEWED YOUR COMPUTER LICENSE YET?**

The due date to renew your computer license is fast approaching. October 31, 2014 is the deadline. According to government sources, all computer owners and operators must obtain

federal licenses for each computer owned. Licensing was mandated by a little known provision of the Telecommunications Act of 2012. The license is good for two years and the fee is \$1 per megabyte of storage space for each computer owned or operated.

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*[newsletter@2cars.org](mailto:newsletter@2cars.org) by the end of the month for publication in the next month's issue.*

*By reading this, you have committed yourself to attend as many CARS meetings and activities as possible, including the annual Christmas party. Ham Radio, the last line of communication before the coming apocalypse. Not all hams are created equal. Some know CW.*