



The Cuyahoga Amateur Radio Society

THE WOBBLY OSCILLATOR

News

Activites

Articles

Minutes

Date: April 2002

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From the Prez

March 20 found 30 people attending a very interesting and informative meeting, thanks to all who came out.

Ron K8VJG provided doughnuts, coffee and pop as usual. Ron collected \$52.00 for the 50/50 drawing, The winner was Dennis Brostek AB8NI (ex KC8SEV), he received \$26.00 for his 1/2.

The CW code class is doing great, we have 18 attending and most doing well on learning the code. In 3 weeks we will put on a special 5 wpm code VE session for the class. Gary, NI8Z and his team Steve N8IS, Tom WB8N, Ron K8VJG are doing a great job with the classes, we hope to see at least 12/13 pass the code test on their first try.

It is was very nice to see 5 new members join CARS this month, welcome to all and I hope you continue to attend meetings. We have several more listed to be voted on at the April meeting.

Gary working with the class. He is using the ARRL CD to introduce the new characters each week and is using his own custom made tapes with sample



tests and 15 minute practice sessions each week.

Gary has worked out a very intense class schedule that is getting results.

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All submissions should be e-mailed in .doc, .wpd or .txt format to newsletter@cars.org by the 22nd of each month for publication in the

continued on next page....

from the Prez continued....

I am sorry to report that our Treasurer Paul Valley KC8AMD has resigned his position as Treasurer. I will ask for nominations to elect a new Treasurer for the remainder of 2002 term at the April 17, 2002 meeting.

The new vanity call for the Museum ship William G. Mather has been issued and is W8WGM as expected. It looks like April 13th or maybe 14th when the committee will try to do our first inspection on the ship. Lin Shaw WD8SDP will be staying on the ship April 12, 13 and 14 with the crew getting ready to open for the 2002 season.

Hope to see you at the next meeting April 17, 2002, 7:30PM at the Busch Community room.

73,
de Bob, W8GC

MEMBERSHIP

The following have applied for membership in CARS and will be voted on at the April meeting.

Joe Vealey, KC8TIA
4419 W. 60th St., Cleveland, OH 44144

Kenneth R. Sink, KC8TIB
P.O. Box 39262, No. Ridgeville, OH 44039

Joe Prokop, KC8RAN
6169 Stratford Dr, Parma Hts, OH 44130,

Bruce M. Bacik, N8DJX
35200 Fairmount Blvd., Hunting Valley, OH 44022

Communications Volunteers Needed For The Walk America 2001

The March of Dimes will be holding it's annual Walk America on SATURDAY, APRIL 27TH, please note that this event is the day before the CVS Marathon. This is a walking event held in Downtown Cleveland to raise money for healthier babies. There will be approximately 7000 people walking the 5 mile route through Downtown Cleveland and the Flats. Communications is required at all rest stops, start/finish and various other critical points along the route. The volunteers are needed from 7:45 Am until approximately 1:00 PM. A total of approximately 16 volunteers is needed. This is a fun event where the volunteers are very appreciated and treated well. You will give you a t-shirt, lunch, and more importantly, you'll be helping the March of Dimes to save babies. f you're available to help out PLEASE contact T J Powell (N8UIR) by email at tjp@tjp.com or at 330-468-1984. We can use all the help we can get.

DAYTON BUS TRIP

As you are all aware the CARS group is putting on it's annual bus trip to the Dayton Hamvention. The cost again this year will be \$30.00 for the bus only!

You will need to have your own ticket into the Hamvention. Advance tickets can be bought on line from the Hamvention people up until April 25, 2002.

At this time there has been 17 seats paid for and another 10 seats on reserve. Please remember its first to pay that gets the seat on the bus, so please call me at 330-225-6917 to reserve your seat on the bus and send in the money as soon as you can! Please make your check payable to CARS and mail it to:

CARS
PO BOX 31264
Independence, Ohio 44131
That's it for now, I hope to hear from you soon and I'll see you on the BUS!
73' Gordon Kolus KC8IOU

April Trivia Question

What is referred to by the term "807" ?

1. A very strange RST report.
2. A bottle of beer.
3. The latest rig from Kenwood
4. A cross between 73 & 88.

Answer on page 5.



MARCH MEETING MINUTES

The March 20, 2002 Meeting was called to order by W8GC at 7:35 p.m. at the Bush Funeral Home Community Room. Introductions were made around the room. 24 Members, 4 New Members and 2 Visitors were in attendance. An error was made in the WO on the call of a new member Dave Kushman. It was listed as KD8AV. The correct call is K8DAV

Terry KB8DTC moved to accept the minutes from the February meeting as posted in the WO and Mike K8EHP seconded. The Minutes were accepted as printed.

Treasurer's Report: Paul KC8AMD reported recent deposits and balance of checking. He also reported how much he estimates our club equipment is worth. Marc KB8QHS moved to accept the report and Don KC8NIX seconded. The treasurer's report was accepted as read.

Tech Report: Tom WB8N reported that Vince was going out to check on a recent repeater problem. The amp has been fixed and has been put back, but apparently there is still a problem. Bob W8GC reported that the 6 meter receive is being moved and will be linked back to the ch55 site and after 3 or 4 years we will have a 6 meter up and working.

William G. Mather: Bob W8GC reported that there are several volunteers to work the Mather. Once the weather is better we will get down there and check the antenna, cabling and equipment. The new call for the William G. Mather Steamship Museum has been issued and is W8WGM.

Sunshine: Aaron KC8INE reported that no one has called about an illness.

Ham Class: Gary NI8Z talked about the tech classes that 7 of 9 students passed the VE Test for Tech License on the last day of class. One of the others has taken his test in Lorain and passed, so CARS has helped get 8 new hams. There new calls were posted last night. We are happy it was so successful. The 5wpm Code class is currently being held at the Independence Civic Center. 18 have signed up for the class and things are progressing great. A VE session for 5wpm code will be on the last day of class April 16th.

Dayton Bus: Gordon KC8IOU is getting ready for the Dayton Bus Trip. There are 47 seats available at \$30.00 each. Bus will be leaving May 18th at 2:00 a.m. After a breakfast at Denny's on the way to Dayton the bus driver will drop us off at the door at the Hara Arena. You need to get your own admission ticket which is \$17 in advance or \$22 at the door. Call Gordon KC8IOU 330-225-6917 with any questions. Gordon has 11 more inquires but only 12 paid seats.

Membership: Steve N8IS reported that only one member was posted in the WO however, several new members had

applied and paid to become members. Gordon KC8IOU moved to suspend the regular rules and to vote on these new members tonight, Terry KB8DTC seconded. All in favor. The new members voted in are (family member) Carol Dziubakowski KC8TIE (tech) husband Don KC8NIX, Lee Georgia WA8ERA (general), Toby Kolman KC8TID (tech), Rich Massien KC8DZI (tech), and Gary Schmid KC2BUA (general).

WO Editor: Tom WB8N reminded everyone to keep the articles coming in. Send in the mail or thru e-mail almost any format is OK. The e-mail address is newsletter@cars.org.

Parade: Ron K8VJG reported on the St. Patricks Day Parade. He stated that 6 hams were on hand and thanked everyone for their assistance.

50/50: Ron K8VJG reported that \$52.00 was collected and a the prize would be \$26.00 Winner of the drawing was Dennis Brostek AB8NI (ex KC8SEV).

Field Day: Tom WB8N reported that at Field Day this year we are going to run all battery. He has a Field Day Committee consisting of Gary NI8Z, Aaron KC8INE, Marc KB8QHS and himself. We will at the same place in Broadview Hts., OH. Tom WB8N will also be checking on alternative power source rules. The plan is to run 5 stations again this year.

Presentation: Slow Scan TV presentation by Dave Morley W8IXY. Gary NI8Z said he plans to have a battery presentation in the near future since Field Day will be run on all battery.

The next meeting will be held April 17, 2002 at Bush Funeral Home at 7:30 p.m. Terry KB8DTC moved to close the meeting. Fred NO2O seconded. Meeting closed at 9:04 p.m.

THE RANDOM WIRE by Tom Wayne, WB8N

DAYTON HAMVENTION

Time is getting shorter guys and gals! Less than 2 months away until the big Dayton Hamvention. I am getting anxious and can hardly wait to head on down there!

This year the Hamvention people have come up with what they call "security implementations" for our safety. I am a little bothered by what they are instituting however.

First, they want everyone to have a photo ID available to show at their asking. They are limiting the size of any back packs, bags, etc. brought onto the property, and

they say no knives, guns, ammunition, or other weapons may be brought onto the property. I have a bit of a problem with this one, as I ALWAYS carry a knife in the form of a tool that has a knife, screwdriver, scissors, etc. all folded up into one unit. The guy I drive down with and room with is a police officer and carries a pistol with him at all times. Is he going to be told he cannot carry his weapon onto the premises? They say even people licensed to carry a concealed weapon will not be allowed to do so. This is a bit beyond their authority I feel, and it will be interesting to see what happens. I think they are going a bit overboard on this security issue myself! As for weapons, there are knives and other things that could be used as a weapon sold throughout the flea market! I even bought a lock picking kit in the flea market a couple of years ago, at a vendor's table who was giving demonstrations on how to pick locks!

Gimme a break!

We'll see what happens. Either way, I intend to have a great time!

FIELD DAY

Field Day is drawing near also folks. We are going to hold it at the same place as last year, the Al Koran picnic area on East Edgerton Rd. in Broadview Heights. This is within a mile or so of the highest point in Cuyahoga County! We are going to be running at least a class 5 event with an auxiliary power station and a 6 meter station for extra points. There is also another station we can run under a new classification called GOTA (get on the air). This station counts for contacts made, but must use a callsign other than that of the club call. Operators of this station can make up to 100 contacts each, and we get an extra 100 points if this station logs 400 contacts!

We were going to run as battery power this year, but after delving further into the field day rules, I find that if we run as battery class, we are limited to five watts of power out! This is not good, so I, and at least one other member of the field day committee, feel that we will run from generator power again as we have in the past years.

We have operators for the five stations plus the extra stations, but can always use some more! We want members to stop out to visit, if for no other reason, as well! The more the merrier!

Planning is still underway. There are many logistical things to consider for this event, such as food for meals, tents, and other supplies needed. This is no small undertaking folks, and planning is all important. Most of the equipment is supplied by the individual station operators, in the form of tents, bug spray, citronella candles, fire extinguishers, individual refreshments, computer for logging, extension cords, etc. CARS takes care of fuel for the generator, food for the operators, and the fee for the site rental.

We also need to make plans for publicity, and to invite the local politicians to visit the site. We get extra points for that as well!

So mark it on your calendars....June 22 & 23....the dates for Field Day! I won't let you forget!

REPEATER MAINTENANCE

Our man Vince Bak, N8OVW reports that the antenna on the 146.22/82 repeater does indeed need some attention. He went out to the site to investigate an intermittent problem with a loud noise on the repeater, as well as loss of the voice and other functions, and found that although we were putting out 100 watts, we were getting 60 of those watts reflected back! Not a good sign. He switched the repeater to another antenna as a temporary measure and it is now putting out 60 watts with 10 watts reflected. This is not as good as we would like, but is only until repairs can be made to the antenna. When this will happen is not known. Hopefully soon. The repeater is functioning normally otherwise, including the auto patch function. Thanks for all your efforts Vince. They are greatly appreciated!

Vince volunteers his time and equipment to keep our repeaters on the air and operating properly. He has to do this on his own time however and he is a busy guy, with his regular work responsibilities. He has also donated equipment to the club for the repeaters. Vince does not get to too many meetings because he is so busy. By the way, Vince is the nephew of Ron Borkey, K8VJG.

GOING QRT FOR NOW

That about does it for this time folks. Try to make the meeting this month. We have been having some good turnouts, and have been getting new members each month. Come on out and meet them! It won't be long until we are meeting once again in the Brecksville branch of the Metro Parks also!

If you are going to be doing any tower/antenna work, please be careful. Last evening on the news I saw a story about some poor ham who fell while on his tower and was hanging upside down with his feet tangled in the tower until he was rescued!

Don't forget the Wednesday net as well.

73, de
Tom, WB8N

CHEAP ANTENNA by Roger Boehnlein, N8TCP

Who says you need fancy gear and a big setup to work the world? There is a mode out there called PSK31. I am sure most of you have heard of it by

now. What really makes it nice is that you don't need a lot of antenna to make it work. Read on and I'll give you the simple details of how to construct a simple antenna system that can be put up and taken down in a few minutes. It's nice for when the neighbors like to complain or even for Field Day..... Oh yeah and it should fit every hams' budget.....

Parts that you will need are a scrap piece of metal about 10" by 10" by 1/4". A couple of 10 ft lengths of 1/2" conduit. Qty 4 of 1/4" by 20 bolts with wing nuts. A 3/8 by 24 antenna mounting adapter with a SO-239 on the other end. And the antenna for the band of your choice. PRO-AM has one for just about all bands.

Start by drilling holes for the bolts in each corner of the metal piece. Drill them in about 1/2" from each corner. Find the middle of the plate and drill a hole large enough to mount the antenna mounting adapter. Next, cut the conduit in 5 foot lengths. With a hammer flatten about 2" on one end of each of the four pieces. Now drill a 1/4" hole in the flattened end of each piece. Next bend the flat end about 45 degrees. Make the bend just about where the flat part ends and the round part starts. You're just about done.

Mount the legs on each corner with the bolt and the wing nuts. Stand it up where you want it. Screw in the antenna of your choice. Connect the coax to the bottom part, then check and adjust the swr for the PSK portion of the band you want to operate. Put the coax on your radio and start operating PSK. That's it. Total cost for the whole setup, including antenna, should be under \$30. Even less if you have most of the junk laying around. The metal piece can really be any size, but at least be 1/4" thick.

I have been using this setup for over a year now and I am impressed with how well it works. Part of being a ham is "being ready for disasters" Well with this setup, you could toss it in your trunk, drive somewhere and be setup and ready to operate in a matter of minutes. Remember to always follow RF safety rules when operating with this setup. Hope everyone enjoys it and hope to see your print on PSK.

Below is a photo of parts needed for this project and a photo of the finished product.

Parts Layout



Finished Product



73 de,
Roger, N8TCP

Answer to Trivia Question

Number 2. a bottle of beer, is the correct answer!

Actually an 807 is a bottle shaped vacuum tube, hence the reference to a beer bottle!

Check in on the weekly net for more trivia!

THE AWFUL (?) FUTURE LIES AHEAD

by Joe Phillips, K8QOE

ARRL Ohio Section Manager

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Too often these days leaving a ham radio club meeting or a hamfest forum is like leaving a movie theater showing of "Frankenstein".

Discussions and statistics about membership in the hobby and in the ARRL (and the financial health of both) are painted in dark "gloom and doom" images. Then we have to deal with that awful, terrible monster - THE FUTURE.

Maybe it is time for a more positive message in this backdrop of uncertainty and fear.

Currently the Division Director and Vice-Director go from meeting to forum with cold, realistic views of the Amateur Radio Service and of the ARRL. Stories and columns in QST do the same.

In no way interpret what I'm about to say as a criticism of their work. No sir. Problems and declining financial pictures which Director George Race WB8BGY, or Vice Director Gary Johnston KI4LA, paint in their messages are real. And Necessary. We will not solve any problems as a group until all of us, leadership and membership alike, have a full and realistic picture of exactly what all the problems are.

No, my message is that we naturally tend to go overboard with the "Frankenstein" gloom and doom outlook on what lies ahead. Please allow me to point out a couple of positive items in the gloom.

First, please understand the three items which got us to this negative outlook. The decade of the 90's gave us some marvelous gifts we could have done without.

FIRST, the current culture's constant news cycle tended to show us, as amateur radio operators, how far off the nations radar scale we were. Hams wanted interviews on CNN, CBS and stories of our efforts at disaster relief on page one of USA Today or the Wall Street Journal. It just isn't true that we got nothing, but the reality is we believe what notice we got amounted to nothing. Real or not, in ham radio meetings, this attitude among us is the biggest I have found.

SECOND, the major issues of the 90's were all about solving declining membership numbers and loss of the youth. Everyone seemed to have a new recruitment theory; we debated "no code or reduced code" all decade. We actually established a "no code" license class, and finally the Friendly Candy Company (FCC) ended the decade with restructuring - only three license classes and a 5 WPM maximum code requirement.

THIRD, we didn't need statistics to know about the declines. Attendance at club meetings and hamfests in the 90's told us all we needed to know. We lost some hamfests altogether. Even Ohio's 800 pound gorilla, the Dayton Hamvention was announcing attendance figures for the first time and showed a small percentage of attendance declines.

So where can there be a positive message in all of this? In all this reality gloom and doom, can we see anything good?

Two things.

First is the obvious. Ham radio is your passion. It is my passion. Neither you or I am going anywhere no matter what - not to stamp collecting, or scuba diving or whatever. We are simply going to ride this all out - enjoying our DXing, satellite transmissions, digital modes, ATV, VHF/UHF, contesting, like we always have.

Second, is that we will stop going overboard and recognize that while we continue to do Elmer by Elmer (one to one) recruiting, the massive increases of our ham radio ranks have almost always come from historical forces **outside** our efforts. Really. First, the early days of young pioneer discovery from spark to tubes (the 20's), then the returning signal dogfaces from World War II and Korea (the 40's and 50's), and the gasoline crises of the 70's - when the nation discovered Citizens Band and the more adventurous CB'ers then discovered amateur radio.

Something else, something can't even imagine right now, will happen. It always does. Just like you and I are not going anywhere - ham radio and we are here to stay. Only Frankenstein gloom and doom will disappear.

RADIO STATION AT WADE PARK V.A. HOSPITAL DEACTIVATED

by Gary Dewey, NI8Z

On Thursday March 21st, the Wade Park VA Hospital station was deactivated. The K8ZFR license was removed and all C.A.R.S. material, qsl cards, plaques, logs were taken out of the area. The radio room was being used for storage. No one had been in the room for a long time. The last time an entry was made in the station log was when Tom, WB8N and I, NI8Z, placed the new license trustee information on the wall. The station still has equipment there that works, however, C.A.R.S. no longer places their operating license there. The equipment is owned by the Veterans Administration.

Below are some photos taken on March 21st, 2002 showing the state of disarray the radio room was found to be in. There are items of furniture and other unknown items that do not have anything to do with the radio station.





The Visitor and Radio Operator log from the Wade Park VA hospital was pulled out when the C.A.R.S. license was taken off the wall this past month in March. The first entry in the log was 1-28-79 entered by W8OFF and W8ELG. Thinking about that, this station was more active due to the fact that there were more veterans receiving care at the hospital then. To prove this point, looking at the log shows that the station was active on a daily basis for extended hours during the day. In 1979, 259 log entries were made by individuals. Doctors, students, operators, visitors were showing up almost daily. This continued through 1985. Then, for some reason, things changed a bit.

In 1986, there was only one operator W8SZF, R Francies for the year. In 1987, on 5-11-87, the log shows 'K8ZFR ON THE AIR'. Ed Milliron, KA8ZRH; R.C. Basset, N8FKT; James Iams, K8BLB; James Glor, N8GXR; Rich James, N8FIL; Casey Nowakowski, N8FCQ; Tom Wayne, (ex-N8HMO), WB8N; Lin Shaw, WD8SHP; showed up in the log representing C.A.R.S. along with others such as Frank Rezek, who stated that he was a patient/C.A.R.S. person. The log in 1987 had 124 entries of activity starting in May through December. In 1988, there were 175 daily log-ins with 65 entries in December alone. The daily log shows continuing activity through 1993. A new rotor was installed on 9-1-93 along with a new tri-band vhf 6-2 meter antenna. In 1994, 34 log-ins were registered. Mel Nelson, WM3M; made the majority of them. In 1995, 31 log-ins were recorded, again WM3M visited the radio room mostly around 9am. In 1996, 51 individuals logged in. NI8Z made his first visit and log entry on 5-16-96. In 1997, 24 log entries were made. In 1998, 11 entries were logged. In 1999, 10 were made. In 2000, 7 were made. In 2001, 2 were made, they were by W8GC and NI8Z. In 2002, by March, no one had visited the radio room and it was being used for storage by the Wade Park VA hospital. Thus the license was removed and C.A.R.S. no longer has any equipment there.

Editor's note: Another reason for lack of activity at the station is that there are less retired hams who have the time to activate the station. Most of the membership of CARS works and has families. Also, parking became a problem at the Wade Park facility and this discouraged members from going down to work the station as well.

**The Following is from
THE GEARVACf (the f is silent) BULLETIN
Reprinted with permission**

CSIPP CLAIMS CHALLENGED BY LEAGUE

The league of Radio Relaying Americans (LRRRA) has challenged researchers of the Center for Scientists Interested in Publicity (CSIP) to prove CSIP's claim that radio spectrum use by hams has changed the Earth's orbit. Late last week the CSIP reported that its studies "showed that heavy use of radio waves caused a change in Earth's orbit that contributed to the global warming experienced last winter." CSIP spokeswoman, Robeenya Gazorts-Piddle said that they planned to ask Congress to outlaw radios. According to LRRRA spokesman F. B. Claude Lots, "Those clowns don't keep all their cookies in the same bin, know what I mean?" Lots said that the CSIP issued a report last year that claimed ham radio use was causing global cooling. Ms. Gazorts-Piddle responded to the LRRRA criticism by explaining, "Tneoc yoggau nauq ouyntta, Be qnot!"

TRAGEDY AT 2001 DAYTON HAMFESTION

Ham radio operator Hugh Jass, N0ASS, was found dead under a trash dumpster Monday morning after a cleaning crew finished mopping up from last year's Dayton Hamfestion festivities. "Mr Jass was wearing a full wave 20 meter antenna on his hat during his visit last year" said Montgomery County coroner, Dr M. Al Practiss. "It would appear his antenna came in contact with a 20,000 volt power line. We won't know until the autopsy is completed, but we feel that the cause of death might have been electrocution" Dr Practiss said. Mr. Jass had not been reported missing, and authorities could not explain why his body remained undiscovered for almost a full year. HamFestion officials could not be reached for comment, but did release the following statement: "We feel this terrible accident could have been avoided had Mr. Jass used a quarter wave antenna versus a full wave antenna. We are taking steps to make sure this does not happen at future HamFestions." The statement went on to add, "We're looking into putting a limit on the size antenna one can wear at the Hara Arena, but we will maintain the sacred tradition of allowing hams to wear a complete shack on their persons." No one at Hara Arena had comments of a reason why the body was under the dumpster. One source did say that there was a large amount of "ham radio-like stuff" around the body, and maybe Mr. Jass had been dumpster-diving at the time of his death.

D. Shepherd, the GEARVACf Bulletin

**THIS SPACE OPEN FOR
PRINTING OF YOUR
ARTICLE !**

**Just write one
and see
your-self
in print !**

CARS 2002 Standing Committees

American Red Cross Disaster liaison

Ev Chitester WA8EYF ** 216-581-3657
Judy KC8FHE, Jim KB8SQF

ARRL Liaison/media representative

Marc Rubin, KB8QHJ ** 440-717-0846

Community Education & School Program

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Steve Riley, N8IS ** 216-328-9276, Ron
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Dayton Bus

Gordon Kolus, KC8IOU ** 330-225-6917

Digipeater

Tom Wayne, WB8N ** 440-232-4193

Elmer

George Pindroh, K8KR ** 216-941-5304

Field Day

Tom Wayne, WB8N ** 440-232-4193, Aaron
KC8INE, Gary Dewey NI8Z, Phil K8MPL,
Bob W8GC, Steve N8IS

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Dwaine Modock, K8ME 440-582-3462

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Paul Valley, KC8AMD ** 440-237-8116

Museum Ship W. G. Mather

Bob W8GC ** 216-524-1750
Lin WD8SDP ** 440-234-4227
Steve N8IS, Gary NI8Z, Bob W2THU, Mike
K8EHP, Dennis AB8NI, Mike KB8UGT

Membership

Steve Riley, N8IS **

NET

Gordon KC8IOU ** Gary NI8Z, Tom WB8N,
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Program director

Gary Dewey, NI8Z ** 216-642-1399

CARS QSL manager

Tom Wayne, WB8N ** 440-232-4193

Refreshments & 50/50 at meetings

Ron Borkey, K8VJG ** 440-237-6718

Sunshine (welfare)

Aaron Clark, KC8INE ** 440-526-9705

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Vince Bak, N8OVW ** 216-635-2579

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Gary Dewey, NI8Z ** 216-642-1399

Web Master/e-mail

Marc Rubin, KB8QHJ ** 440-717-0846
Phil Ricca, K8MPL ** 440-526-8400
** chairman or co-chairman

Board Members

even year executive board;

Bill Koenig, AA8WJ 216-441-5978
Ron Borkey K8VJG 440-237-6718

odd year executive board;

Gordon Kolus, KC8IOU 330-225-6917
Terry Pillatt, KB8DTC 330-273-1043

K8ZFR trustee

Tom Wayne, WB8N 440-232-4193

NO8A trustee

Bob Check, W8GC 216-524-1750

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SECRETARY:

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Secretary@cars.org

TREASURER:

Position open

