



The Cuyahoga Amateur Radio Society

THE WOBBLY OSCILLATOR

News

Activites

Articles

Minutes

February, 2003

Vol: XXXII

Issue: II

From the Prez

Thanks to all who came out to our first meeting in 2003 on a cold snowy day.

Toby KC8TID had a good supply of hot coffee, cold pop and donuts for refreshments.

Kayla, KC8RYH collected \$42.00 for the 50/50 drawing this month. Steve, N8IS, was the winner and took home \$21.00. Our second drawing was for a 1 year membership to CQ magazine and that was won by Bob K8AAB,.Congratulations to both.

Dave K8DAV reported pictures from the Christmas party, the Dayton bus info with registration form and other new information is now on our Web site at www.cars.org. Please take a few minutes and answer the "10 meter net survey" Dave has on the web site.

Our 2003 Technician class kicked off January 22 and is going very well. On March 12, when they test, we expect to have several new Hams in the Cleveland area.

I have appointed four new committees for 2003 including an "Independence Home Days" committee chaired by **Steve, N8IS (216-328-0432)**. He is looking for volunteers to help man a booth to show the positive side of Ham radio to the community. Also **Roger, N8TCP (440-843-6723)** will chair an "Ohio Bicentennial" committee. He has several ideas about how to promote this with a special event station. Roger can also use some help—please get involved call one of the chairman and give just an hour or two to help promote both CARS and Ham radio.

Time is flying and soon Tom, WB8N will be getting Field Day plans in motion. We will be installing a new antenna at the W.G. Mather museum ship and setting up an operating schedule. The General classes will be starting February 13, plus the activity with the new

committees, and don't forget Lighthouse outings! CARS has many different things going on so please get involved with at least one of your clubs activities.

That's it for this month, hope to see you at our next meeting on February 19, 2003.

73,

de, Bob W8GC

MINUTES OF MEETING JAN. 15, 20

The regular meeting, which was held at the Busch Funeral Home Community Center, was called to order at 7:34PM by Bob, W8GC.

Gordon W8GTK, made a motion and seconded by Terry KB8DTC, to accept the minutes of the November 2002 meeting. A vote was taken and passed.

Bob W8GC, explained about several items donated to CARS for now to be used on the SS Mather station.

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Many members commented on the good time had by all at the CARS Christmas Party held December 23, 2002.

Gordon W8GTK, reported on the CARS net and the Dayton Hamfest bus trip. Reservations may be made up to two weeks before the Hamfest. Please make them as soon as possible.

Dave K8DAV, reported on the Website.

An update on the auto dial was related by Roy, KB8VJF.

The treasurer, Mike KB8UGT, made the treasury report.

A motion to accept 3 new members was made by Roger N8TCP, and seconded by Dave K8DAV-- Gary Overfield KB8VJO, Jerry Steel K8CMI, and Tina Check KC8VNK, as a family member, were elected as new members of CARS.

Tom W8BN, reported on the Wobbly Oscillator Newsletter.

Bob W8GC appointed Don KC8NIX, and Carol, KC8TIE to be the ARRL Liaison & media representatives for CARS.

Bob W8GC appointed Steve N8IS chairman of the Independence Day Home Days committee, Kayla KC8RY, Gary NI8Z and Bob W8GC will help out.

A report on the VE session held on 12 January, 2003 was given by Gary NI8Z, and was followed by a discussion on VE's.

Bob W8GC, reminds us that the Technician classes starts next Wednesday 22 January, 2003 and the General classes to start on Thursday February 13 and also the CW classes to begin on Wednesday March 19.

The president also appointed an interference /jamming committee is to be chaired by Bob, W8GC, others on the committee are Roger N8TCP, Gary NI8Z, Steve N8IS, and Tom, W8BN.

A discussion on the Ohio Bicentennial for the year 2003 was opened by Bob W8GC. Roger N8TCP was appointed chairman to head the committee for the club.

George K8KR, reported on that the proposed new 5 MHZ band is a dead issue.

Comments on the refreshments was given by Toby KC8TID.

The 1st prize in the 50/50 raffle was won by Steve N8IS his share was \$21.00 cash. 2nd place for a one year subscription to CQ magazine was won by Bob, K8AAB.

A motion was made by Tom WB8N, and seconded by

Kayla KC8RYH, to close the meeting. A vote was taken and passed.

The meeting was adjourned at 8:23PM by Bob, W8GC.

Respectfully submitted by Secretary: Ron, K8VJG.

AREA HAMFESTS

Hamfest season is under way. By the time you read this, NOARS will have had their annual Winter Fest, but here are a few coming up this month and next.

The Intercity Amateur Radio Club and M.A.S.E.R. are holding their Mansfield Mid-Winter Hamfest & Computer Show will be held on Sunday, February 9, 2003, at the Richland County Fairgrounds, 750 North Home Rd, North of US Rt 30. Show runs from 6:30 A.M. until 3:00 P.M. For information go to www.maser.org.

The cuyahoga Falls Amateur Radio Club is holding their 49th annual Hamfest, Electronic and Computer show on Sunday, Feb 23, 2003, at the Emidio & Sons Party Center, 48 E. Bath Rd. At the corner of State Rd., Cuyahoga Falls OH. The show runs from 8 A.M. until 2 P.M.

The Lake County Amateur Radio Assn. Is holding their 25th annual Hamfest on Sunday, March 23, 2003, at the Madison High School in Madison OH. This is located on Burns Rd, at the corner of Ridge Rd. Their show runs from 8 A.M. until 2 P. M.

NEW E-MAIL SERVICE FROM FCC

By Don Dziubakowski, KC8NIX

The FCC has inaugurated a new e-mail service, The FCC Consumer E-Bulletin, to let consumers know about FCC developments, to disseminate FCC consumer information and to invite comments on FCC regulatory proposals.

Those signing up can expect to receive FCC fact sheets, consumer brochures and alerts, news releases, public notices, notices of proposed rule making, reports and orders, and other consumer-related information. The Consumer Education Office in the FCC's Consumer and Governmental Affairs Bureau (CGB) operates the free service.

FCC LAUNCHES CONSUMER ORIENTED ELECTRONIC COMMENT FILING SYSTEM

By Don Dziubakowski, KC8NIX

The FCC has launched ECFS Express, an updated electronic system that the Commission says will make it easier for some members of the public to file comments on FCC proceedings. ECFS Express is a simplified version of the popular Electronic Comment Filing System (ECFS), but it is not available for all FCC proceedings.

ECFS Express focuses on topics rather than docket numbers, and requires minimal input by consumers seeking to participate in the Commission's public rulemaking process. ECFS Express is accessible from the FCC home page at <http://www.fcc.gov>. Users click on the "File Comments" logo. Anyone who wants to comment just has to click on a topic, fill in their personal information, write their comments and hit "SEND."

The FCC said the downside is that if the particular issue you want to comment upon is not listed among the ECFS Express topics, you'll have to use the full version of ECFS, located at <http://www.fcc.gov/e-file/ecfs.html>, to comment on proceedings not listed. At the moment, the ECFS Express list includes no Amateur Radio-related proceedings.

NEW MEMBER APPLICATIONS

Nelson, KC8QDK (Tech)
PO Box 33
Atwater, Ohio 44201
Michael 330-947-2893
mnelson4@neo.rr.com
DXing: yes
CW / Digital: maybe
SSB Field Day operator: yes
Comments:
Emergency communications / ARES

Anthony J. Crespo Jr., KC8PTQ (Tech)
5110 East 131 Street
Garfield Hts., Ohio 44125-3006
Phone: 216-475-7587

THE AMATEUR RADIO CALLBOOK

The Story Continues.

Yes the Amateur Radio Callbook continues. The next edition will be ready in May, 2003. Anyone wishing to purchase the most recent version, winter 2003, you can place your order via e-mail at orders@callbook.com.

If you have update requests or questions, you can send them via e-mail at info@callbook.com.

FROM THE EDITOR

Last months newsletter had some great contributions by CARS members! This month we have some more great contributions as well. Keep em coming folks, the more the merrier and the better your newsletter will be!

It isn't difficult folks! Just sit down and write about something regarding amateur radio that interests you! Maybe some information you have recently come across that you think might be of interest to your fellow members. Or tell us about that new piece of ham gear you just got hold of!

See yourself in print!

de Tom Wayne, WB8N....W.O. Editor

QRP RIG

Philip Ricca K8MPL

It had been many years since I built any type of kit. The Ten-Tec people have a line of kits for the ham bands. I decided on a 20 meter kit Model 1320 by Ten -Tec

My soldering iron had cob webs on it so this kit was a new adventure.

Positive points on this kit:

Excellent manual – very detailed on all areas of construction.

All components were of good quality. The PC board is first class.

The actual construction format is good – nothing is left to the imagination. One specific circuit is constructed and then a testing format is followed to verify that part of the radio is functional.

Negative points on this kit :

Hook-up wire included is of very poor quality. Not many points are connected with wire, but wire tended to break at the least bit of bending.

Traces on the PC board are very close – a solder sucker is needed. These kits require a lot of time and patience.

Calls to the techs at Ten-Tec often came up with information different than in the manual. The number of turns on the toroids differed from the manual and the info given by the techs. It seems that the manuals are not up-dated.

Many of these kits, after assembly, must be returned for tweaking at Ten-Tech. This is not a free service.

If you have the time these kits are really educational – I learned a ton of circuit design principles from the kit. I was between jobs when I built the kit, so time was not a problem.

So if you have some soldering know how and a bit of time these kits provide an interesting way to build some low power ham gear.

VICE PRESIDENT'S INTERVIEW

By Steve Riley N8IS, V.P.

I hope you enjoyed last months interview with our President, Bob Check, W8GC. I am really enjoying getting to know more about our fellow members. This interview is with Dwaine Modock K8ME. I was very happy he took the time to let us all get to know him better. Hope you enjoy the interview.

Steve: How did you become interested in Amateur Radio / what got you started?

Dwaine: **IN JUNIOR HIGH, A FRIEND'S DAD WAS A HAM AND MY FRIEND WAS STUDYING FOR HIS NOVICE AT THE TIME. I WENT OVER HIS HOUSE TO SEE THE EQUIPMENT, AND I WAS HOOKED. SO I STARTED STUDYING WITH MY FRIEND JUST ABOUT EVERY NIGHT.... THEORY THEN THE CODE. BY THE TIME I GRADUATED OUT OF JUNIOR HIGH, I HAD MY NOVICE. THEN IN HIGH SCHOOL I GOT MY TECHNICAN, THEN GENERAL. I STARTED A AMATEUR RADIO STATION AT JOHN MARSHALL HIGH, BUT WHEN MY CLASS GRADUTED, SO DID THE HAM STATION.**

Steve: How long have you been licensed and what class license do you currently have?

Dwaine: **I HAVE BEEN LICENSED SINCE 1964 AND I HOLD AN EXTRA CLASS LICENSE WITH 20WPM REQUIREMENT. EX-CALLSIGNS HELD: WA8MEM, WA8WSP.**

Steve: What do you like about Amateur Radio?

Dwaine: **I LIKE CW, BUT I DO OPERATE ON SSB AND RTTY WHEN NEEDED CHASING DX, SLOWLY GETTING BACK INTO THE CONTESTING SIDE.**

Steve: What are your favorite bands to work ?

Dwaine: **THE FAVORITE BANDS ARE 30, 17, 12 METERS, MOSTLY CW.**

Steve: Do you collect QSL cards? If so how many confirmed countries do you have?

Dwaine: **I DO COLLECT QSL CARDS. I LIKE THE DIFFERENT PICTURE CARDS THE BEST. THEY KIND OF SHOW WHERE THE CONTACT WAS MADE FROM. MY CONFIRMED COUNTRIES: 329 MIXED; 315 CW, 320 SSB.**

Steve: What type of Awards or Recognition have you won or been awarded with?

Dwaine: **I HAVE: WAS, WAZ, 5BWAC, 5BDXCC, RTTY DXCC, 30MTR DXCC, AND DX'ER OF THE YEAR FROM NODXA BACK IN 1994.**

Steve: What other hobby's do you have besides Ham Radio?

Dwaine: **I ENJOY GOLFING, MOTORCYCLE TRIPS, AND COOKING.**

Continued on next page....

Steve: What would your dream station be / consist of and where would it be ?

Dwaine: MY DREAM STATION IS WHAT I AM RUNNING NOW; FT-1000MP WITH KENWOOD TL-922A, CUSHCRAFT X9 ANTENNA AT 60 FT, A3WS WITH 30 METER ADD ON AT 71 FT. BAZOOKA INVERTED VEE FOR 80 AND 160. I WOULD LIKE TO HAVE MY STATION IN THE HILLS OF MONTANA.

Steve: What type of work do you do? Or if retired, what did you do?

Dwaine: I AM A UNION OFFICIAL FOR UAW LOCAL 1250, I AM A UAW ERGONOMIST IN SHORT: I REDESIGN WORK STATIONS TO PREVENT INJURIES TO THE EMPLOYEE'S, A BRANCH OF THE HEALTH & SAFETY DEPARTMENT WITH UAW/FORD. I AM A CERTIFIED TOOL & DIE MAKER BY TRADE.

Steve: Thanks Dwaine.

Here is another interview of one of our members. This one is with Gary Dewey, NI8Z.

Steve: Gary, how did you become interested in Amateur Radio/what got you started?

Gary: My Elmer is Jim Plummer K8ARY. We met at the University of Toledo when I was going to college in 1970-1973. He had been in the Air Force and was a radio teletype repairman. I was in the Navy as a radioman from 1959-1963. There was no amateur radio activity prior to 1976. Prior to that I was what can be considered as a 'professional' communicator for about 10 years. I graduated from college as an Electrical Engineer. But still was not involved in Amateur Radio until I ran into Jim at an Engineer of the Year award function in 1976. We started talking about amateur radio. Later that year, 1976 I took the General class license test in Detroit and was given my first license as N8BVD. I upgraded in 1980 and received the call sign NI8Z.

Steve: How long have you been licensed and what class license do you currently have?

Gary: Well you can tell from the last answer that I've been a ham for over 26 years. I currently hold a Extra Class license.

Steve: What do you like about Amateur Radio?

Gary: There is alot I like about Amateur Radio. One, it keeps me in touch with people who

enjoy the hobby and like the technical side of radio communication. Two, there are many facets of amateur radio. There is the public service aspect, the involvement with the public and public officials who need communication support. There is involvement with the teaching side. Also, since I became a Volunteer Examiner, the involvement with new hams trying to get a license is rewarding. And last but not least is the operating experience with all the different modes of communication that are open to explore. For some there is the contesting part where you can compete against other amateur radio stations for contact points. There are awards to acquire for communicating with other all over the globe. It is a hobby that provides not only enjoyment for personal experiences but it has an international aspect as well.

Steve: What are your favorite bands to work?

Gary: I work all HF bands. My favorite band is 20 meters because its open to somewhere in the world most of the day and sometimes night.

Steve: Do you collect QSL cards? If so how many confirmed countries to you have?

Gary: Yes, I collect QSL cards. I have probably sent out over 5,000 cards. So far, I have close to 300 countries confirmed.

Steve: What types of Awards or recognition have you won or been awarded with?

Gary: Most of my awards have been related to CW or RTTY. I have not submitted for the WAS or DXCC yet. I am waiting for at least 100 confirmed country contacts on three different HF bands. The most recent award was for being first in Ohio with the number of RTTY contacts during the 2002 ARRL RTTY Roundup.

Steve: What other hobby's do you have besides Ham Radio?

Gary: There are too many to mention! But just to give you an idea, photography, racquetball, golf, fishing (when I can find someone with a boat), computer gaming, are a few others that take up some of my

continued on next page....

time like card playing and ping pong. Oh I almost forgot, I play pool sometimes.

Editor's note: Sometimes????

Steve: What would your dream station be/consist of and where would it be?

Gary: My dream station(s) would be in a couple of places. My winter station would be in the caribbean on some beautiful island. My summer station would be somewhere at the highest elevation in North Dakota. Why North Dakota you ask? It's one of the least active states in contests. It's in the middle of the U.S. so it has equal balance to the two coasts. The area would consist of 5 to 10 acres. On these locations there would be a building completely insulated, heated and/or air conditioned plus isolated from outside RF. The building would have complete living quarters for eight people plus staff to cater to the operators. The building would be two stories. Either ground and basement or no basement but an upper area. The building would be around 4,000 sq feet total. There would be 4 operation station with two radios/amplifiers per operating position. Each radio position would be different just for the sake of having all manufacturers represented. Every position would have a spare backup radio facility in case of failures. Each position would be capable of all modes digital/cw/ssb. There would be a computer linked to each radio pair plus linked to the other computers. The antenna field would consist of four 200 foot towers. On each tower antennas with tacked monobanders for one HF frequency. However, the towers would also have four square configuration for 80 and 160 meters. In addition to the towers there would be towers loaded for 80 and 160 meter plugs three 550 foot beverage antennas running E-W, N-S and NW-SE. There would be back up generation for the building so it could be run completely isolated from external power. There also would be two satellite antenna systems capable of tracking 2 to 4 satellites at a time.

Steve: What type of work do you do? Or if retired, what did you do?

Gary: I am retired. But I work parttime at Sleepy Hollow Golf Course. Other than that I goof off alot and dream of my dream station.

Thanks Gary, for taking the time to tell us what makes you tick.

Let's all hope Gary win the lottery so he can invite us for visits !!

Stay tuned for next month's interview/s. de Steve Riley, N8IS, Vice President

MONTHLY TRIVIA QUESTION

This month's question goes back a few years but here goes...

What was known as the "SW3" ?

1. A SWL club from the 1930's.
2. A three element beam.
3. A three tube receiver.
4. A triode.

Look for the answer elsewhere in this issue!

The GEARVAKf BULLETIN

The "f" is silent

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EXPLODING-RAT AMPLIFIER TESTED
(Again)

Director of GEARVAKf Scientific Research, Dr. Elwood P. Lishnus, announced last week the successful resumption of testing of the unique exploding-rat microwave amplifier. Work on the amplifier began at the GEARVAKf Research Laboratory in 1978 when Dr. Lishnus discovered the previously unknown exploding-rat principle. He found that placing certain kinds of rats in small copper boxes cause the rats to appear to explode and disappear, spontaneously giving off intense bursts of microwave radiation. Dr. Lishnus then constructed a prototype to evaluate the practicality of the exploding-rat principle. The prototype exploding-rat amplifier was first demonstrated in April 1979 when it was used in a 25 mile long 1296 MHz communications link set up at GEARVAKf Headquarters. The link ran for over two hours and was shut down only when the rat supply was exhausted. At that time, rats for the test had to be flown in from New York City. Later on, a cheaper more reliable source of rats was discovered in Springfield, Ohio. The new tests are being conducted to find out if the rats really explode or, as is suspected, merely disappear into another dimension. If the latter is proven, then an un limited extradimensional source of cheap microwaves can be tapped.

ANNUAL AUDIT

By Gary Dewey, NI8Z,
Audit Committee Chairman

The Treasurer's records and books were audited in January to comply with the Bylaws of CARS. The audit team found the records and activity of the Treasurer to be sound and complete. Our Treasurer, Mike KB8UGT, picked up the responsibility in midyear 2002. His is doing a splendid job and is a credit to CARS.

VE News

By Gary Dewey, NI8Z

The January VE session was held on the 12th with seven VEs in attendance plus myself. Roger N8TCP, Tom WB8N, Steve N8IS, Bob W8GC, David K8DAV, Ron K8VJG and George K8KR administered to six candidates who came to test. The outcome was four new Technician and one upgrade to Tech with HF privilege. The other passed the General written but still needs 5 wpm to complete the license requirement.

The highlight of the VE session was Christina Check, daughter of CARS President and wife of CARS Vice President, who passed the Technician license written elements and now plans to take the CW class.

Submitted by NI8Z

ANSWER TO THE TRIVIA QUESTION

The answer to this months trivia question is # 3! The SW3 was a three tube receiver manufactured by the National Radio Co. In the early Thirty's.

QST de W1AW : ARRL Bulletin 12 ARLB012
From ARRL Headquarters, Newington, CT
February 3, 2003 To all radio amateurs ARLB012

TEXAS AMATEURS AID IN SHUTTLE DEBRIS RECOVERY, CATALOGING

Amateur Radio Emergency Service (ARES) and SKYWARN volunteers in Nacogdoches, Texas, have been assisting local emergency management officials and NASA to locate and catalog debris from the Columbia shuttle. The shuttle and its crew of seven, including three hams, were lost over Texas February 1.

ARES and SKYWARN volunteers from the Nacogdoches Amateur Radio Club have been surveying the area in and around Nacogdoches looking for shuttle debris. Public Information Officer Tim Lewallen, KD5ING, of the Nacogdoches Amateur Radio Club said amateurs have been accompanying officials from both NASA and the EPA to expedite the search and clean up of area schools. Texas officials have cancelled school in most of East Texas because of fears that shuttle debris could pose a health hazard.

"USUALLY we just get the coordinates, take a photo and move on to the next site," Lewallen said, "and someone from NASA will come along and pick up the piece later." He said the club had additional volunteers lined up for duty over the next few days, with amateurs coming from East Texas, Houston and Dallas. The ARES and SKYWARN volunteers have been working with emergency officials from Nacogdoches County, Texas Rangers, NASA, Texas Department of Public Safety, EPA and the National Guard.

THE ARES and SKYWARN volunteers also were following up on NASA-provided telemetry and radar information that indicates where debris might be found, Lewallen said. The search area includes densely forested areas. NASA has requested that those encountering debris avoid any contact with it and cautioned that persons found with stolen accident debris will be prosecuted to the full extent of the law.

THE Columbia crew, headed by Commander Rick Husband, included Pilot Willie McCool and Mission Specialists Kalpana "KC" Chawla, KD5ESI; David Brown, KC5ZTC; Laurel Clark, KC5ZSU, Michael Anderson, and Payload Specialist Ilan Ramon.

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THE RANDOM WIRE

By Tom Wayne, WB8N

ANTENNA DISASTER AVERTED

A while back I think I related how I had to get up my tower pretty soon and replace a bolt holding the rotor onto the rotor plate. Then in the late fall, we had that devastating wind go through the area. It was just afterward that I noticed that the rotor for my antenna had shifted on the rotor plate of my 40 foot tower! I climbed up the tower to see what had happened...expecting to see that the bolts had sheared off! This was not the case however. Upon close inspection, I found that the bolts had worked themselves loose and had simply fallen out of the rotor and plate! All but one, which was valiantly keeping the rotor from slipping off the rotor plate completely, which would have caused the whole antenna assembly to slip through the side of the tower and become wedged. Then I discovered that the whole shebang, rotor and all were twisting in the wind! While the rotor control indicator in my shack said the antenna was pointed West, in reality it could be pointing in any direction!. Again I climbed up the tower and attempted to tie the rotor in place as a temporary measure until I could get to the hardware store and purchase some new bolts and washers, and get up the tower and secure the rotor to the plate once again.

Now some of you know that I had total hip replacement on both of my hips a couple of years ago. I am not supposed to be putting my new hips under the stress of climbing the tower, especially after popping my right hip out of joint back in August. But one does what one feels has to be done!

Then the weather took a turn for the worse and we started having cold and snowy weather. This has prevented me from installing the new bolts and washers and we have not had a break in the weather since as you all know! Tying the rotor in place has worked to some extent. Now it only twists between West and East when the wind blows. I am just waiting for spring so I can again get up the tower and properly secure the rotor to the rotor plate. Of course the ground hog has seen his shadow, and we are in for more winter! With any luck the rope and one lone bolt will hold the rotor on the rotor plate long enough for me to effect the repairs needed! I am also looking for a volunteer to climb the tower

for me. (Hint, hint Gary) Wish me luck, I need it!

HAMFEST SEASON ONCE AGAIN

Yup, Hamfest season is upon us. I have already been to one...the NOARS Winterfest. It was a nice hamfest, but seemed smaller this year. There were less vendor setups than in the past and even then there were some empty tables. The nice thing about this hamfest is that you get breakfast included in the price of admission!

The Mansfield Hamfest and the Cuyahoga Falls Hamfest are being held this month, with the Lake County Hamfest next month. I am hoping to get down to Mansfield. It is a long drive but it is a good hamfest. If you can't find what you are looking for there, you had better plan on going to the Dayton Hamvention! That one is in May, which really isn't all that far off! Which reminds me to remind you to make your reservations for the CARS bus trip to Dayton! (How's that Gordon?)

AMATEUR RADIO CLASSES

CARS is once again holding a Technician licence class at the Independence Civic Center. It got underway in January. This month a General licence class will begin. If you want to take advantage of this one, get in touch with Gary Dewey, NI8Z asap as it starts in a couple of weeks!

That's about it for this week gang. See you at the meeting or catch you on the air. Don't forget the weekly CARS net on 146.82 MHz! 73, de Tom, WB8N



CARS 2003 Committees

American Red Cross Disaster liaison
Everett WA8EYF ** 216-581-3657

ARRL Liaison & media representative
Don KC8NIX** Carol KC8TIE**216-524-4910

CBARC Liaison
Dwayne K8ME 440-582-3462

Community Education & School Program
Dave KD8V ** 330-666-8721
Steve N8IS ** 216-328-9276, Ron K8VJG

Dayton Bus
Gordon W8GTK ** 330-225-6917, Bob W8GC

Elmer
George K8KR ** 216-941-5304

Field Day
Tom WB8N ** 440-232-4193, Aaron KC8INE
Bob W8GC, Steve N8IS, Gary NI8Z

Ham License classes
Bob W8GC** Gary, NI8Z ** 216-642-1399
Tom WB8N, Steve N8IS, Don KC8NIX, Ron
K8VJG, Bruce N8DJX, George K8KR

Independence Home Day
Steve N8IS** Kayla KC8RYH, Bob W8GC,

Interference & Jamming
W8GC**, NI8Z, N8IS, N8TCP, WB8N

JOTA
Steve, N8IS

Lighthouse events
Dennis AB8NI ** 440-974-1087
Toby KC8TID ** 440-572-1544, Bob W8GC

Museum Ship W. G. Mather, W8WGM
Bob W8GC ** Lin WD8SDP ** Steve N8IS,
Gary NI8Z, Bob W2THU, Mike K8EHP, Dennis
AB8NI, Mike KB8UGT, Bruce N8DJX, Toby
KC8TID, Ron K8VJG

Membership
Ron K8VJG ** Bob W8GC

NET
Gordon W8GTK ** Gary NI8Z, Tom WB8N,
Toby KC8TID, Kayla KC8RYH

Ohio Bi-Centennial year
N8TCP**, W8IXY

WO/Newsletter
Tom WB8N ** 440-232-4193

Program director
Gary NI8Z, ** 216-642-1399

QSL manager-NO8A & K8ZFR
Tom WB8N ** 440-232-4193

Refreshments & 50/50
Toby KC8TID ** 440-572-1544
50/50 Kayla KC8RYH

Sunshine (welfare)
Aaron KC8INE ** 440-526-9705

Technical
Roy KB8VJF ** Bob W8GC ** Terry KB8DTC
Vince N8OVW, Dave K8DAV, Tom WB8N

VE exams
Gary NI8Z ** 216-642-1399

Web Master/e-mail
Dave K8DAV ** 440-243-3593, Bob W8GC **

** chairman or co-chairman