

The Wobbly Oscillator Cuyahoga Amateur Radio Society

NO8A Special Event Call

K8ZFR Cleveland Area Repeaters 146.82 - 443.825 - 444.75



APRIL 2005

Volume XXXV

Issue IV

FROM THE PREZ

Thanks for the great turn out at the March meeting. Terry KB8DTC continues doing a great job with refreshments!

The 50/50 raffle was won by Ron Borkey K8VJG. Congratulations Ron. Ron and CARS each received \$26.00.

Dave K8KAV gave a talk on how he developed the CD's used for our Technician, General and Extra classes. This has been a very involved programming effort by Dave and is still an ongoing process with additions and new features.

One of our members, T. J. Powell N8UIR, received the Presidents Volunteer Service Award, which was presented in person by President Bush at Hopkins airport during the Presidents last stop in Cleveland. The event was covered by Channel 5 news and the other local stations. Congratulations T. J. Our programs committee has T.J. down to talk at an upcoming meeting.

The first student at the Copley - Fairlawn Middle school Ham Club has passed his Tech exam. Sam Henige is now KD8BGL. Congratulations to Sam! Two or three other students will be ready for their Technician exams in the next week or two, we look forward to getting them licensed The students talking on both the HF, VHF Ham bands and Echolink from the school club station along with their study time.

We did not receive enough sign ups for the Extra class this year and have changed that time slot to a CW class which will be held April 12 through May 24, 2005. Gary NI8Z will put on this years CW class followed by the VE test for CW. To sign up, please go to www.cars.org and click on "sign up

here" to get registered. The cost is only \$10.00 for CARS members and \$15.00 for non-members.

For any of you not going to Dayton this year please mark your calenders and try to help us on Saturday May 21, 2005 as we will be setting up at the downtown Boy Scout Headquarters to help celebrate the rededication of the facility. We will be giving Ham radio demos and information from 8:30 to about 3:00 in the afternoon. If you can help for any part of or the whole day please contact me as soon as possible.

Gary ni8z represented CARS at the ARRL Great Lakes convention Saturday March 19 in Toledo and will be give a full report at this month's meeting, plus see his article in this issue of the WO.

That's it for another WO. This month we have some words about being oneself:

Every generation laughs at the old fashions, but follows religiously the new.

See you at the April 20, 2005 CARS meeting.
de Bob, W8GC

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CARS MEETING MINUTES March 16, 2005.

President Bob Check W8GC, called the meeting to order at 7:33 PM held at the Busch Funeral Chapel Community Room in Parma, OH. Introductions were held around the room. 28 Members and 2 Guests were in attendance.

A motion to accept the minutes of the February 16, 2004 meeting was made by Ev WA8EYF and seconded by Bill WA8GEO. A vote was taken and the motion passed.

The treasurers report was made by Tina W8HBI. Most of the new income has come from donated equipment that has been sold and dues.

Dave KD8V announced that things at the Copley School have been going great. Bill KC8YSV informed the club about a group meeting that was held with the head of the Science Department. They went over goals, ARRL Big Project, Amateur Radio in general and Curriculum guide. Copley Schools feel a lot of the Curriculum Guide fits right into the 8th grade curriculum. Copley Schools were also given information about Grants they can apply for and paperwork to set up a contact with the International Space Station. Bob W8GC mentioned that Echolink has been hooked up at the school and some interesting contacts have been made. Due to other commitments we have lost some of our regular kids at meetings, but the club will start being held on Tuesday a.m. at 7:30 to help work around their schedules. *(There goes breakfast, Betty says - Ed.)* Bob told about the purchase of a Yaesu FT1000 MP by the club from Ron Borkey K8VJG. The club will be selling a TS850, Mic and Power supply to help cover the costs of the purchase. For now the radio will be used at Copley Middle School.

Bill KC8YSV reminded everyone to renew or sign up for ARRL through the club. The club benefits when you pay your yearly fee thru us. If anyone has program ideas for future meetings, please let KC8YSV or W8JAK of the Program Committee know.

Anyone interested in being a technical mentor please let Bill KC8YSV know as he's compiling a list.

Dave KD8V of the Sunshine Committee advised the club that no cards were sent and no reports of

anyone needing one have come in.

Toby WT8O mentioned that Gordon W8GTK wondered what people thought about the current net time. It was moved from 7:00 to 9:00 p.m. last summer. Perhaps the time is too late. Send Gordon W8GTK a e-mail on your opinion of this subject. A net controller is needed also - if you have any interest please get with Gordon W8GTK.

President Bob announced that 6 people passed their Tech tests from the Tech class and the General class is in full swing. Due to lack of sign ups for the Extra Class, a CW class will be substituted.. Gary NI8Z will again be the instructor of the CW Class.

Dave K8DAV informed the members about some changes he is going to make to the repeater announcement. Dave K8DAV and Jim WD8CHL commented on new controller that is coming out. Jim WD8CHL also mentioned that he has taken over the Voter project.

Bob W8GC announced that 7 new members were being voted on: William Brown KC8UQV, Brad Bennett KD8BBS, Jeff Hudson KD8BAP, Dorjan Scott KD8BAM, Joseph Ulaszewski KD8BAL, Jane Garson Reed KD8BAN and Henry Oswick KD8BAO. Three of the applicants were in attendance. A vote was taken and passed and all were accepted as new members.

Tom WB8N reported on the WO. Not enough articles are being submitted by members. Consider contributing to your newsletter. Send articles to wb8n@cars.org, Tom thanked Dennis KD8APY for the 1st installment on his article. Toby thanked George KA8JHS for doing a colorful VP interview.

Terry KB8DTC said reservations are slowly coming in for the Dayton Bus. Cost is \$35.00 and the bus leaves out at 3:30 a.m. So far only there 8 reservations have been made, with 5 paid as of meeting night, way behind our normal number at this time. Cut off day is April 20th. If we don't have 20 people riding the bus at that time it will be cancelled and any monies paid will be refunded. We will notify the Bus company and we *continued on next page....*

can receive our \$100 deposit back and cancel the trip. Please refer to www.cars.org with any questions or to submit a reservation.

Gary NI8Z announced that the VE Test this past Sunday was a success. He informed the members that he will now be using "Field Stock" test materials so that tests can be given at anytime. He will also be able to print tests on his computer.

Toby WT8O advised that he's hoping some of the new members will be interested in filling out a VP Interview paper. It's a great way for all of the members to get to know each other better. He also mentioned that the Spring Lights Lighthouse Event starts March 26th.

Terry KB8DTC requested that if you would like a certain type of pop or beverage at the meetings, to please let him know.

Bob W8GC made it known that Dennis Rabbitts KD8APY brought the colorful maps in that several of the members have. It was a nice gesture and he wanted to acknowledge his kindness. It was also mentioned that he sent in a great article for the WO and we look forward to his next installment.

Bob W8GC announced that if you aren't going to the Dayton Ham Fest. The Boy Scouts are having a rededication downtown and have asked us to set up a Ham radio demonstration. It will be on Saturday, May 21 from 8:30 - 3:00. *(There goes another breakfast says Betty - Ed.)*

Bob W8GC reminded everyone that Dave K8DAV will be giving a talk about the development of the CARS CD's as tonight's program.

The 50/50 raffle was won by Ron K8VJG. His share was \$26.00.

Bob W8GC mentioned that Gary NI8Z is representing the club at the ARRL Great Lakes Convention on Saturday, March 19th in Toledo.

A motion to adjourn the meeting was made by Mike, K8EHP and seconded by Ev, WA8EYF. A vote was taken, the motion passed, and W8GC adjourned the meeting at 8:31 p.m.

Submitted by: *Tina Check, W8HBI, Secretary*

A TESTIMONY

Hello Fellow Hams

I just got back from the last night of class for the General Class License. If you're a Technician and have been thinking about upgrading to a General Class, I can tell you from personal experience that a class given by Cars is the way to go. I just wish that I had known about Cars when I was going for my Technician license. If there is something that you don't understand you have someone to help you through it. I tried to ask my wife but she just gave me a funny look and said yes dear. So the point is... you are working with some guys that have been there. I have been rather busy the past few weeks so I have fallen behind on my beacon article, so I'd better get going on it. Oh, before I sign off, I did pass!

Dennis W Rabbitts
73 KD8APY
kd8apy@arrl.net

Editors note: Congratulations Dennis and also to Jane, KD8BAN and George, KA8JHS for passing their General Class license tests.

FOXHUNT NEWS RELEASE

By Mike Cegelski, K8EHP

Welcome fellow hunters of furry critters of the RF kind! Sunday afternoon, 15 May, 2005 will see the first event of fox hunting for 2005. The 8th is Mother's Day so the next Sunday is the one. The territory, starting place and other details will follow. If anyone wants tutoring (lessons) on fox hunting and/or building simple equipment for same, please notify me at (216) 252 - 6640 or k8ehp@earthlink.net. We'll have a group or individual sessions as the need(s) dictate. If you know of someone else who would like to do this activity, please feel free to bring them along. *continued on next page....*

While RSVP is not necessary, it's always a good idea to let me know ahead of time if you plan to attend. Please feel free to print this notice in any newsletter you wish.
Tally Ho!

PUBLIC SERVICE EVENT REMINDER

The Northeast Ohio Medical Reserve Corps has events coming up this spring/summer which require volunteers for communications as well as medical support. We would like to obtain as many volunteers as possible for these events. The following is a listing of Public Service Volunteer Opportunities:

MS WALK Downtown Cleveland
04/23/2005 Sat 0800-1400
Medical Support Required

MS WALK Akron (CVNRA --- Boston Mills Ski Resort)
04/23/2005 Sat 0800-1400
Medical Support Required

March of Dimes WalkAmerica --- Wade Oval
05/01/2005 Sun 0745-1300
Ham Radio & Medical Support Required

Nat'l MS Society Pedal to the Point
08/20/2005 Sat 0600-1800
08/21/2005 Sun 0600-1800
Ham Radio & Medical Support Required

We will be adding more events in the near future, please check our website at tpowell@neomrc.org or leave a message at 330-468-1984.

Thank you,
T.J. Powell, PE, EMT-B, N8UIR
President / Chief
Northeast Ohio Medical Reserve Corps, Inc.

THE 2005 GREAT LAKES DIVISION CONVENTION VISITED

By Gary Dewey, NI8Z

Toledo Ohio took advantage of the timing to host having the, every other year, ARRL Great Lakes Division Convention and their annual Toledo Mobile Amateur Radio Hamfest March 19 and 20th. Gary Johnson, KI8LA, chaired the so called "ARRL's best division" conference. Michigan, Kentucky and Ohio make up the states included in the Great Lakes Division. Although there were Division personnel absent, Joe Philipps, K8QOE, Dale Williams, WA8EFK, Jim Weaver, K8JE, Gary Johnson, KI8LA, Riley Hollingsworth, K4ZDH, along with the Convention Manager, Brenda Krukowski, KB8IUP and Jeanie Dalton, KB8QLC ran a smooth operation. After KI8LA set the outline of the conference, Riley Hollingsworth, K4ZDH gave a sober recap of the FCC enforcement activity. He claimed he almost didn't make it due to changes going on at the FCC, but knew he might not get asked again since he cancelled out of the last conference held two years ago in Findlay, Ohio. Riley believes the enforcement policies are working; the truckers are being curtailed on the 10 meter ham bands. The Pilot stores have complied with the removal of ham equipment in their stores. The fines issued by the FCC are more than a hand slap now. And, in general, the effort of enforcement is reaching the "maintenance" mode. He cautioned that we are being heard on the HF bands offshore. He concludes, "Its up to everyone to insure we sound like we deserve to be on the bands." Also, the enforcement effort will continue.

Next came three one hour (actually 50 minutes) seminar topics. However, there were two each session and one had to pick and chose which to go to. I picked the ARRL LOTW (The LogBook of the World) project update given by Wayne Mills, N7NG/1. Wayne had lots of statistics of how it is working. The numbers were impressive as there are over 60 millions Qs logged, thousands of logs submitted and the timing of the search for a .matched contact was satisfyingly quick. Obviously, you need to be proficient in logging
continued on next page...

times and dates. The Q can be in a 30 minute window but the date along with the call and mode is critical. I had to chose next between mobile HF operation or High Speed Multi Mode communications. Since I didn't know what HSMM was I figured I owed it to my education to learn. Jim Kvochick, WB8AZP, gave an energized presentation.

He started out with the question, "Does everyone know the difference between Part 15 and Part 97 FCC regs"? It began to snow in the conference room for a minute but then the clearing clouds opened up and it began to warm up. Part 15 deals with items like cell-phones, WIFI, PDAs, wireless routers ...etc... I hope everyone knows what Part 97 entails. Anyway, the deal is that amateurs are playing with Part 15 items for amateur radio. Using a wireless router through radio links is possible at 2.4 Ghz. There are obvious conflicts possible with commercial activity and this is where the rub is. However, this opens up additional communication possibilities for emergency very high speed communications which can be coupled with ARES activity.

Next I had to chose between PSK31 and a Club Seminar. I figured I knew all there was to know about club activity since C.A.R.S. is doing more for a club than just about every other one there. So I went to the PSK31 topic. I learned something that I didn't know. The sound card has two controls that limits the intermod of the output signal. The volume and the wave/mp3 source work in tandem. So to make sure the signal output is not overdriving the soundcard you must be aware of both of them. The usual PSK programs were demonstrated with WINPSK getting a big nod for convenience. However, Digipan (latest version) and Ham scope are still very popular. Jeff Breitner, KA8NCR brought wavefiles for "demoing" good and bad PSK signals. All the presentations were informative, however, no one had hand out material. A suggestion for improvement was to make these seminar presentations available either on the ARRL web for future reference. For any club to get all the information, both sessions should be covered.

Just before everyone broke for the social gathering, awards were given for Lifetime

Achievement, HOTY, Technical Achievement and Division Best Newsletter. The George Wilson Award went to Ron Moorefield, W8ILC; ham of the year went to Allan Eckman, WW8WW; Technical Achievement was given to John Barnes KS4GL; and the Divisions's best newsletter went to a Kentucky club (The FEEDLINE, www.qsl.net/nrnc/feedline.html.) edited by Tim Anderson, AG4XM.

Everyone recognized earned this year's prestigious award. Jim Weaver made the presentations with lots of background and detail as to the how each earned this years honor. Actual certificates and wooden plaques would be forwarded to the recipients in most cases.

The dinner was better than average but the table conversation was worth the price of admission. Emcee Tom Watkins, W8MGK radio news person for WSPD provided some comic relief, especially at Joe Philipps' expense. Again, Riley Hollingsworth spoke to the dinner group.

His talk covered most of the areas covered in the beginning session, without much Q and A. He did take written concerns provided by individuals, to deal with at a later time and with a more personal handling.

The Royal Order of the Wouff Hong ceremony was conducted. I finally made it into this honorable order after 27 years. Riley Hollingsworth represented the collective amateur radio entrees present as the 'NOVICE'. However, this extremely motivating ceremony brought tears of humility to this old QRP'r.

Conference pics on page 6.

APRIL 7th IS HAM RADIO DAY!

So Tune In ! Check out this web site!

www.123greetings.com/events/ham_radio_day/



Riley Hollingsworth of the FCC addressing the Great Lakes ARRL Conference.



There he is...can you see him? It's Mr. Dewey himself...NI8Z on the monitors!. At least we know he was really there!



Tim Andrews AG4XM, editor of the winning Newsletter.

APRIL BIRTHDAYS

- KB8VJF Roy Hadden 4-3-64
 - KC8WBF Skip Cook 4-7
 - W8BOL Steven Merriman 4-15-58
 - KC8OJD Daniel Dressler 4-16
 - KC8WBG Dawnn Barbour 4-18
 - N8OVW Vince Bak 4-22-49
 - KC8WLY John Cobb Sr. 4-23-57
 - W8GC Bob Check 4-29-41
- Congratulations Folks! Many Happy Returns!

NEXT SOLAR MAXIMUM THE SMALLEST IN 100 YEARS?

The interior of the Sun holds the key to predicting the strength of each solar cycle. Internal magnetic fields are twisted up and wrapped around the Sun due to the Sun's differential rotation. These fields are thought to be what gives rise to the formation of sunspots and related space weather activity.

05 March 2005 | The latest research results[1] by Drs. Leif Svalgaard and Yohsuke Kamide at the Solar-Terrestrial Environment Laboratory, Nagoya University (Japan) and Edward W. Cliver at the Space Vehicles Directorate, Air Force Research Laboratory, Hanscom Air Force Base (Massachusetts) suggest that the Sun may be less active during the next solar cycle than it has been during the last 100 years.

These results are based upon one of the most successful solar cycle prediction methods in existence. The "Precursor Method" is capable of predicting the magnitude of the next solar maximum up to about 7 years before the solar maximum occurs. This is possible by examining the strength of the magnetic fields that congregate in the polar regions of the Sun a few years before the solar minimum of each solar cycle and relating the strength of those fields to the observed sunspot numbers during the next solar maximum. The polar magnetic fields provide the "seed" magnetic flux necessary to drive the sunspot activity during the next solar cycle.

The most recent findings by Dr. Svalgaard et al. are based on only the first of three years of data during the current decline of solar cycle 23. At least two more years of data (through the solar minimum) are required to provide a more accurate prediction. Nevertheless, sufficient data is now available to make an initial reasonable prediction. They predict that the next solar maximum (the time during which the proliferation of sunspots is greatest) will be associated with a sunspot number of only 75, with an error of ± 8 . If this prediction holds true, the next solar cycle (cycle 24) will peak around the year 2011 with a sunspot number that is lower than any previous solar cycle since cycle 14 when the observed sunspot number peaked at a value of only 64 in 1906.

What is the significance of this prediction, assuming it holds true? Sunspots are a source of eruptive phenomena such as solar flares. Energetic coronal mass ejections are also related to the occurrence of solar flares. And coronal mass ejections can produce hazardous space weather conditions to spacecraft, aircraft and power grids. One would think that a lower sunspot number would be good news for these industries. Overall average space weather effects may indeed be a bit milder. But these industries are more adversely affected by the few extreme solar outbursts that occur during the solar cycle than they are during the less volatile "average" conditions observed during the solar cycle. Svalgaard et al. are quick to point out that some of the most intense space weather storms have occurred during solar cycles having low sunspot numbers. For example, two of the eight most intense geomagnetic storms during the last ~150 years occurred during solar cycle 14, while three of the five strongest energetic proton events at greater than 30 MeV since 1859 occurred during solar cycle 13 when the peak sunspot number plateaued at only 88. The scientists note that the next solar cycle could prove to be an excellent test-bed for a number of models and theories concerning the solar cycle and solar activity.

A direct measure of the strength of the solar polar fields will be possible during 2007-2008 when the Ulysses space probe will make another pass over the solar poles. Dr. Svalgaard and his colleagues fully expect the strength of the polar fields measured during these polar passes will be significantly smaller than the strength of the fields that were observed during the polar passes of 1994 and 1995 during the minimum phase of the last solar cycle. This would help validate their prediction of a much smaller solar maximum during the next solar cycle than has been observed in recent memory.

Submitted by Bob Check, W8GC

THE RANDOM WIRE

By Tom Wayne, WB8N

DAYTON, DAYTON, DAYTON

Just a little over a month away now, and the great Dayton Hamvention will be upon us. Which reminds me, I'd better get on their website and order my ticket! This should be a good one, with the ARRL Convention being held there too, with lots of forums to attend as well. Gas prices are out of sight but if you car pool, as I do it won't hurt as badly. I don't really need anything this year, other than maybe a mobile HF antenna for my vehicle, so I can install the Alinco HF rig I bought a few years ago. It is fun to check out the new stuff that I can't afford though, and cruise through the flea market, which is probably the largest flea market I've ever seen.

As usual, we will go down Thursday afternoon, get set in our motel, take a dip in the pool and have dinner at the Spaghetti Factory in downtown Dayton. Then a good night's sleep and Friday morning up and at em early, and off to the Hara Arena.

WX

I hope that was winter's final blast that we had over the weekend! Man, I thought we were about through with that white stuff, but I guess we were all surprised with that one! Now, as I sit here three days later, pounding away at the ole keyboard, it is 77 degrees F. outside! Geeze! Hey, it is great weather to get out and up and take care of any antenna problems that may have developed over the winter. I need to climb my tower and straighten out an offset arm that supports my open-wire antenna for 80 meters. First though I really should finish raking up the leaves that I never got to last fall, before the dad-burn snow covered them up! I should be doing that instead of sitting here typing this column, but there are priorities you know. The W. O. Must get out in a timely manner and it is already a couple of days late!

RAY CONELLY

If anyone remembers Ray Conelly, a silent key that used to be a member of CARS, please let me know. He was a good friend of mine and for the life of me, I cannot remember what the heck his call sign was. If anyone recalls, I would surely

appreciate it.

Ray was a great guy and would do anything for you if he could. He used to work at Gary's VE sessions, and one time, while the test takers were taking their tests, including the test for morse code, Ray was feeling antsy I guess. He got up from the table and began fidgeting around with the electric stove that sits up in the area where we grade the tests. Well, suddenly the timer buzzer went off! Ray had unintentionally set it off and was startled to the point he could not shut it off fast enough! We called him "QRM Ray" from that point on.

THE WEEKLY NET

Hey guys, and gals too...lets try to remember to check into the CARS weekly net on Wednesday nights at 9:00 p.m. local time. I know, it is right in the middle of "prime time" on television, but really, there is not much on, on Wednesday nights, so it wouldn't be too much of an inconvenience to get on the radio and check into the net. There's usually a trivia question, you'll meet your fellow and sister hams there, and maybe there will be some information of interest to you as well. Give it a shot.

HAMFESTS

The next hamfest in our area will be the Cuyahoga Falls ARC hamfest on Sunday, Apr. 17. This is a small one, but a pretty good one. Maybe I'll see you out there, cuz I am planning on being there!

I missed the Lake County ARC fest in Madison last week...had a prior commitment. Hey, you can't make em all. I really wanted to make that one though, as it is a good sized one and it has great food!

TICK TOCK

I see by the ole clock on the wall that is time for me to get outta here. I hope to see you at the next meeting, catch you on the air, and maybe even on the CARS net. Get on the air and utilize that license you worked so hard to get!

73 for now,

de Tom,

WB8N

CARS 2005 Officers & Committees

Audit

Toby WT8O ** Tina W8HBI, Gary NI8Z

ARRL Liaison

Bill Sarver KC8YSV **

Media Representative

Don KC8NIX **

Christmas Party 2005

Gary NI8Z ** Steve N8IS ** Tina W8HBI
Tom WB8N

Community Education & School Programs

Dave KD8V ** Steve N8IS ** Tina W8HBI,
Kayla N8KAY, Bill KC8YSV

Contests

George K8KR **

Dayton Bus

Terry KB8DTC ** Bob W8GC

Development

Bob W8GC ** All officers

Diabetes events

Tom WB8N ** All CARS members

Field Day

Tom WB8N ** All CARS members

Fox Hunts

Mike K8EHP ** N8IS, N8TCP

Ham License classes

Bob W8GC ** Gary, NI8Z ** Tom WB8N, Steve
N8IS, Ron K8VJG, Bruce N8DJX, George K8KR,
Dave K8DAV

Interference & Jamming

W8GC **, NI8Z, N8IS, N8TCP, WB8N

Scouts

Steve N8IS **, Tina W8HBI, Kayla N8KAY

Lighthouse events

Toby WT8O ** 440-572-1544

Mentor/Elmer

Bill Sarver KC8YSV ** Ron Borkey K8VJG **
Tom WB8N, Bob W8GC

Membership

Tina W8HBI ** Bob W8GC **

Museum Ship W. G. Mather W8WGM

Bob W8GC ** Lin WD8SDP ** All CARS members

NET

Gordon W8GTK **

WO/Newsletter

Tom WB8N ** 440-232-4193

Program directors

Bill KC8YSV ** Jack W8JAK **

QSL manager-NO8A & W8WGM

Tom WB8N **

Refreshments

Terry KB8DTC **

50/50

Kayla N8KAY **

Sunshine (welfare)

Dave KD8V ** 330-666-8721

Technical

Dave K8DAV** Bob W8GC ** Terry KB8DTC
Vince N8OVW, Roy KB8VJF, Tom WB8N
Jack W8JAK, Jim WD8CHL, Steve N8IS

VE exams

Gary NI8Z ** 216-642-8705

Web Master/e-mail

Dave K8DAV ** Bob W8GC **

** chairman or co-chairman

2005 Officers

PRESIDENT

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secretary@cars.org

TREASURER:

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treasurer@cars.org

Board Members

even year executive board 2 year term;

George K8KR
Gary NI8Z
K8VJG

odd year executive board 2 year term;

Gordon W8GTK
Terry KB8DTC
Tom WB8N

K8ZFR trustee

Tom WB8N

NO8A, WA8CMS &

KD8AQD trustee
Bob W8GC

