

# The Wobbly Oscillator Cuyahoga Amateur Radio Society

NO8A Special Event Call

K8ZFR Cleveland Area Repeaters 146.82 - 443.825 - 444.75



February 2007

Volume XXXV

Issue II

## FROM THE PREZ

We had a good turnout for our January meeting, thanks to all who attended.

It was necessary to change the location for the 2007 Great Lakes Division Convention We will now be meeting at the Sheraton Independence, go to [www.2007GLDC.com](http://www.2007GLDC.com) for details. **Please plan to attend the convention on September 22, 2007.**

A motion to change the Scholarship rules was introduced at the January 9 meeting. Discussion and voting on at the February 13 meeting.

I would like to thank John, K8YSE for the excellent presentation he gave at our January meeting on his DXpedition to Swaines Island, KH8SI, a new DXCC entity.



**John K8YSE & Tedd KB8NW**

CARS will be doing a Ham Radio demonstration for the BSA on May 5, 2007 at the Cuyahoga County Fairgrounds. This is for Scouting 360 and they expect about 3,000 Scouts, parents and leaders.

Please contact me if you can help for 2 or 3 hours.

We will have a CPR demonstration at our March 13, 2007 meeting, Gale Franko a RN with Parma Hospital will do the class. We will open and have a short business meeting so the demonstration can start at 8:00pm, it is expected to last till 8:45 or 9:00 subject to questions.

Please try to attend as basic CPR has changed in the last couple of years and your knowledge may help save a life. You never know when your help will be needed.

That's it for another WO. This month's thought: *Happiness is to be found along the way, not at the end of the road, for then the journey is over and it is too late. Today, this hour, this minute, is the day, the hour, the minute for each of us to sense the fact that life is good, with all of it's trials and troubles, and perhaps more interesting because of them.*

73 for now... de Bob, W8GC

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## JANUARY 2007 MEETING MINUTES

At 7:35 pm, on January 9<sup>th</sup>, President Bob Check, W8GC dropped the gavel to begin the first C.A.R.S. club meeting of the new year. The meeting was held at the Busch Funeral Chapel Community Room in Parma, Ohio. Twenty-five club members and three guests were in attendance. Bob took a moment to welcome Bill, WA8GEO the new vice president; and Gary, NI8Z to the board of directors.

Terry, KB8DTC motioned to accept the November meeting minutes as published in the January *Wobbly Oscillator*. Bob, KC8MRC seconded the motion. There were no additions, corrections, or questions, and the members passed the motion.

Tina, W8HBI reported on the balance of the club treasury. She also reminded everyone the annual dues are payable in January.

Bob informed the group that the planning for the ARRL 2007 Great Lakes Division Convention was going very well and encouraged everyone to check the website for progress updates.

Gary, NI8Z reminded those present there would be a VE session Sunday, January 14<sup>th</sup>, at the Old Town Hall in Independence. He said there were already seven people signed up for testing, including three people for the last CW test that the C.A.R.S. VE team would be administering.

Scotty, WA8SLN reported that the scholarship committee unanimously voted to propose a change in Article X, Section 1, Paragraph B of the C.A.R.S. by-laws to eliminate the current two year restriction from the date of high school graduation or the equivalent. The committee's intent of the revision is to extend the opportunity for C.A.R.S. members, children and grandchildren to receive one of the two \$ 500 scholarships awarded annually. The proposal will be voted on by the club members present at the February monthly meeting.

In the absence of Dave, KD8V, Tom, WB8N informed the group his wife, Lisa, was in the hospital. She has had complications with diabetes, and has been receiving kidney dialysis treatment, and is awaiting a transplant. Bob echoed the thoughts of all present in wishing her the best. Tom also said the *WO* would soon be adding a ham related crossword puzzle.

Dave, K8DAV announced the Great Lakes Convention website was out of the design stage, and into the maintenance stage. He said the C.A.R.S. website had recently been updated. Dave told the group the new link receivers at the Parma repeater site are now operational. He concluded by saying the repeater project was almost complete, as the voter and controller still need some fine tuning.

Tina gave a holiday party wrap-up, commenting that the 54 people in attendance were entertained by Zap and karaoke, and enjoyed the dinner provided by Boston Market and Augie's Pizza. She also thanked Henry, KD8BAO for the extra effort he put in with the refreshments and working in the kitchen. Bob initiated a round of applause for the great job the party committee did.

C.A.R.S. welcomed a new member, Frank Habart, WD8INH. Gary, NI8Z motioned to accept Frank into the club, and Terry, KB8DTC seconded. The group unanimously voted to pass the motion.

Bob mentioned that the refreshment duties were being divided up. Mike, KB8UGT will be bringing soft drinks, Terry will handle the coffee, Ron, K8VJG will supply the donuts, and Ed, KD8CLC will bring pizza. He also requested members to consider volunteering for a ham radio demonstration for the Boy Scouts on May 5<sup>th</sup> at the Cuyahoga County Fairgrounds. The event, "Scouting 360", is expected to bring in about 3,000 scouts. George, K8KR suggested we set up a special event station and have certificates available. Bob continued by announcing the General and Technician classes C.A.R.S. would give starting February 7<sup>th</sup>. They will be held in the Red Oak Room in the Independence Civic Center, and those interested can sign up on the C.A.R.S. website. Bob also said he had been contacted by Dennis Albrecht, a *Plain Dealer* reporter, requesting an interview about the elimination of Morse Code. When accepting, Bob got a commitment to have a *PD* reporter cover The Great Lakes Convention.

George, K8KR, representing the audit  
*continued on next page....*

committee and speaking for Dave, K8DV; and Bill, KC8YSV, reported their findings after examining the financial records of the club. He complimented Tina, W8HBI, saying the books were in excellent shape, balancing to the penny, with all income and expenditures explained in detail.

Bob asked for anyone who has changed their e-mail address recently to please contact him so the list can be updated.

Steve, N8IS asked if net check-ins were still being recorded. His question was answered by Dave, K8DAV who answered affirmatively, and added an award would be given at the holiday party, as was done in 2006.

Dwaine, K8ME, reminded the group that next month's meeting program would feature a talk on radio astronomy by Al, W8PN. Tina, W8HBI is arranging a CPR demonstration for the March or April meeting.

The 50/50 drawing was won by George, K8KR. He pocketed \$30, with an equal amount going into the club treasury.

Mike, K8EHP motioned to close the meeting, and Bob, KC8MRC seconded. The group passed the motion, and the meeting was adjourned at 8:19 PM.

Respectfully submitted by Toby Kolman, WT8O, C.A.R.S. secretary.

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### **Codeless Amateur Radio Testing to Begin February 23**

NEWINGTON, CT, Jan 19, 2007 -- The ARRL has learned that the FCC's Report and Order (R&O) in the "Morse code proceeding," WT Docket 05-235, is scheduled to appear in the Federal Register Wednesday, January 24. Assuming that occurs, the new Part 97 rules deleting any Morse code examination requirement for Amateur Radio license applicants would go into effect Friday, February 23, 2007. The League cautions that this date is tentative, pending official confirmation and publication.

"This change eliminates an unnecessary regulatory burden that may discourage current Amateur Radio operators from advancing their skills and participating more fully in the benefits of

Amateur Radio," the FCC remarked in the Morse code R&O.

Publication of the R&O in the Federal Register starts a 30-day countdown for the new rules to go on the books. The FCC reportedly completed its work on the R&O this week and forwarded it to the Federal Register receiving desk. The Federal Register must make the document available for public inspection 24 hours prior to publication. Federal Register personnel are constrained by law from saying if a particular R&O is in the publication queue, however. Rules and regulations that appear in the Federal Register constitute their official version.

Deletion of the Morse requirement is a landmark in Amateur Radio history. Until 1991, when a code examination was dropped from the requirements to obtain a Technician ticket, all prospective radio amateurs had to pass a Morse test. Once the new rules are in place, Amateur Radio license applicants no longer will have to demonstrate Morse code proficiency at any level to gain access to the HF bands.

On or after the effective date of the new rules, an applicant holding a valid Certificate of Successful Completion of Examination (CSCE) for a higher license class will be able to redeem it for an upgrade. For example, a Technician licensee holding a valid CSCE for Element 3 (General) could apply at a VEC exam session, pay the application fee -- which most VECs charge -- and receive an instant upgrade. A CSCE is good only for 365 days from the date of issuance. Candidates for General or Amateur Extra between now and the effective date of the new rules still must have Element 1 (5 WPM Morse code) credit to obtain new privileges, however.

The new rules also mean that all Technician licensees, whether or not they've passed a Morse code examination, will gain HF privileges identical to those of current Novice and Tech Plus (or Technician with Element 1 credit) licensees without having to apply for an upgrade. Novices and Technicians with Element 1 credit have CW privileges on 80, 40, 15 meters and CW, RTTY, *continued on next page....*

data and SSB privileges on 10 meters.

The FCC R&O includes an Order on Reconsideration in WT Docket 04-140 -- the so-called "omnibus" proceeding. It will modify the Amateur Service rules in response to ARRL's request to accommodate automatically controlled narrowband digital stations on 80 meters in the wake of other rule changes that were effective last December 15. The Commission designated 3585 to 3600 kHz for such operations, although that segment will remain available for CW, RTTY and data.

The ARRL has been posting all relevant information on these important Part 97 rule revisions on its "FCC's Morse Code Report and Order WT Docket 05-235" Web page.

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### **ANOTHER MILESTONE** **By J. Nash Walters W8SEL**

From time to time, you have asked for input from readers of the WO. I recently passed another milestone in my long life, and I thought you might be interested.

In the beginning of January 2007, I received a letter from the Quarter Century Wireless Association Inc., congratulating me for being licensed as a amateur radio operator for 75 years! It went on to mention a special award was being prepared for me. I was asked to submit biographical information about myself and my formative years as a amateur. And that is what I'm sharing with you today, my reply to the Quarter Century Wireless Association.

It never ceases to delight me when somebody reminds me I have passed another milestone! I consider every day I wake up a bonus day. If I make it to next August 22<sup>nd</sup>, I'll be celebrating birthday number ninety-two.

In amateur radio, I am already celebrating my seventy-ninth year! I was 13 years old, still in grade school, when I took the DL&W RR from the Brick Church Station in East Orange, NJ and rode to the Hudson River, took the Fulton Street Ferry across walked thru the Vegetable Market, past the old

AT & T building at 195 Broadway, where I said "bye" to my Dad. I then took the subway to Battery Park at the south end of the island where there was a magnificent view of the "Statue of Liberty". I crossed the tracks, entered the Government Building which houses the Federal RADIO Commission offices, was seated, along with other hopefuls, handed some forms to fill out, donned the headphones they gave me, and passed the ten words per minute code test that was required then.

I was then handed the written test which, at that time, required candidates to draw a circuit diagram of an amplitude-modulation radiotelephone transmitter. When you had finished the diagram, you then had to describe the function of each section and component of the transmitter. There were no true/false or choose questions as on today's exams.

There was also no limit on the time. The men who administered the exam were employees of the U.S. Government. They had a job to do from 7:00 a.m. to 4:00 p.m. and they worked. When you were finished with the exam, you handed it in and they went to work on it. If you passed, they handed you an impressive document that licensed you to operate an Amateur Radio Station for One Year. That document was impressive! It looked like a diploma from a ivy league college. It disappeared during one of my many moves over the intervening years.

Call signs being issued then were in the W2DQ's where I lived in New Jersey. Western New Jersey was in W3-land! Before WW2, there were only 9 call areas. There were no bridges across, nor tunnels under, the Hudson River yet. When you crossed the Hudson, you took a ferry. When my station license arrived after about three weeks, I was delighted to see my call. It was a re-issue: W2CEQ. I was delighted! It had a nice swing to it on CW. And CW was all I could afford in those days. The only phone stations were operated by executives of the young broadcast stations on Manhattan Island or in New Jersey. They had access to retired broadcast equipment.

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I have told you a long story. I'm unable to accept my special award from the Quarter Century Wireless Association because I quit driving when my Florida drivers license expired in 2004.

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#### LETTER TO THE EDITOR

I just have to put in my 2 cents worth. No I take that back 2 cents don't go far these days. I'm going to give you the whole dime. Dave and Vince are putting a lot of time in on our Repeater. It would be a real shame to see it not get up to modern day standards. By that I mean not having Echolink or IRLP. When I listen around and hear people talk about Echolink you hear the same thing. "Yes I have heard of it but don't use it much" ok how many of you tried to use it and could not get it to work? I am also guilty of the same thing. Till one day I just worked with it till I figured it out. Come on people we are Hams. That special breed of people that don't give up. Ok, lets suppose Tom is setting in the Park or in his back yard with HT in hand. He needs to get hold of Bob. So he puts out a call for him on the repeater. Then it comes to mind he is probably on that @#\$#@% Echolink. No problem, he activates Echolink on the repeater and puts in Bob's node the next thing he hears is Bob's cheerful voice coming back to him. Ok, maybe it's not like Mr. Rogers but lets not have the club take a back seat and let others pass us by. Also lets not forget about the Hams that have come to Apt. Living. I would like to hear your opinion.

Dennis W Rabbitts

[Kd8apy@cox.net](mailto:Kd8apy@cox.net)

KD8APY

*Thanks Dennis...I hope you get some responses on this matter. Members can contact you and you can let us know their opinions, or members can send in their responses to the W.O. and they will be published. Ed.*

#### FEBRUARY BIRTHDAYS \_\_\_\_\_

**KB8UGT Michael Balach 2-2-55**

**KD8V David Dressler 2-11-32**

**KD8BAO Henry Oswick 2-11-81**

**WA8ZJV Ronald Boehnlein 2-11-46**

**N8JNO Gary Solomon 2-15-54**

**W8HBI Tina Check 2-24-70**

**Congratulations to one and all! Many happy returns and may you all have many more!**

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**DON'T  
FORGET  
TO  
CHECK  
INTO  
THE  
CLUB NET!**

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#### EXCERPTS FROM THE *GEARVAKf (the f is silent) BULLETIN* Marconi Birthday Celebration

The FCC has just issued blanket approval for spark transmission on February 29th, in commemoration of Marconi's birthday. All US amateurs are encouraged to build or resurrect spark transmitters--the bigger the better--and transmit all day long. "Rotary gaps in the 5-to-10 KW range should really 'ring in' Marconi's birthday with bang, or at least a big buzz," said FCC spokes person Ralph R. *continued on next page...*

Spiffie, Jr. LRRR officials viewed the FCC's action with some skepticism. "I think it's just a ploy to get hams to replenish the ozone layer at their own expense," said Mickey McCoy, LRRR resident expert on radio. In a separate press conference, the FCC announced that February 29th would mark the beginning of an amnesty period, during which BPL systems would be exempt from Part 15 rules. When asked how long the amnesty would last, Spiffie replied: "Homeland Security. Can't talk about it." He continued, "Besides, I really don't think anyone will notice anyway."

--N4GG

**NASCAR Drivers Get Ham Radio Privileges Willowstomp, NC** – At a press conference held this morning in the back room of Stumpy's Telecommunications Supply and Feed Store, Mr. Rupert J. Sebastiano III, Chief Executive Commander of LRRR's Radio Equipment Sales And Planned Obsolescence Subcommittee announced that starting with next year's Daytona 500, the FCC will give amateur radio privileges to all NASCAR drivers. This will coincide with the assignment of 146.52 MHz as a shared frequency during every race. Call letters will consist of N (for NASCAR), followed by the car number. "We did a lot of lobbying to get this rule passed," said Sebastian, "and we believe that filling .52 simplex with race chatter will revive ham radio's most famous 'road' frequency. For years race fans have listened to their favorite team's radio traffic but have never been able to talk to the drivers. I mean, they drive around in circles for hours! That must be pretty boring. Now they can chat with all their new good buddies; telling stories, swapping whiskey recipes, you know, just like those astronauts." An unnamed source in the Greek watchdog group PITA countered the announcement by saying it was simply a

ploy to boost sales of amateur radio equipment, much of which would be sold to "un-licensed loudmouths wearing t-shirts bearing logos of chewing tobacco." The source pointed out that the LRRR committee was instrumental in forcing the development of the big-selling 2 meter iPod, and said, "Gosh, if those drivers get Yakking to much on the radio, they might even get in a wreck" source pointed out that the LRRR committee was instrumental in forcing the development of the big-selling 2-meter iPod, and said, "Gosh, if those drivers get yakking too much on the radio, they might even get in a wreck." – W8FYO

#### **Answers to Gearvakf technical quiz**

The answers to last year's unpublished technical quiz were released this week by the Gearvakf Technical Committee.

They are: 1. (a); 2. (d); 3. (c); 4. (c); 5. no; 6. yes; 7. (d); 8. (a); 9. true; 10. false; 11. (e); 12. never; 13. (g); 14. always; 15. Ed Cotton; 16. kilocycles-per-second; 17. megatons; 18. rats; 19. torque; 20. Jake brake.

Last year's unpublished technical quiz will be published at a later date.

*Thanks to Joe, K8DMZ for sending me the latest issue of the GEARKf (the f is silent) Bulletin so we can enjoy the rantings of some very disturbed amateur radio ops. Ed.*

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**Please ask our new VP Bill WA8GEO for a link to the CARS web site to fill out a Interview with the VP form.**

## THE RANDOM WIRE

By Tom Wayne, WB8N

### The big news

Well, by now everyone must be aware of the FCC's latest ruling concerning Morse Code...the doing away with same as a license testing requirement. I have not heard a lot of comment on the ruling one way or the other as yet, and I must say that I for one have mixed feelings about the whole thing. One one hand, I wish that the FCC had kept the code as a requirement for at least the Extra Class license. The top license class should have that extra (no pun intended) requirement to make it something to strive harder for. On the other hand, I feel (or hope) that this ruling will bring more new amateurs into the hobby, and that those already licensed as Techs and Generals will make an effort to upgrade.

### Giving a helping hand

When and if there are newbies coming into our hobby, I hope that we welcome them and help them out by being a good example on the air and offering our guidance and answering their questions. Encourage them, don't put them down or make fun of their mistakes on the air. If necessary, correct them politely without belittling them. Give them constructive criticism. Remember, we once were newbies as well. If you hear a new call on the repeater, go back to them and make them feel welcome and even invite them to a meeting to see if they would like to join our friendly little group. In that respect, the more the merrier.

### Snow, snow, and more snow. And cold!

I guess we are paying for the mild weather we were enjoying in December. At least we caught a slight break in our heating bills! I think of poor K8KR up there in his attic radio shack freezing himself while he tries to work that next elusive DX entity. Keep at it George. Spring is just around the corner.

### Outta here


That does it for this month fellows and gals. Hope to catch you on the air or at least see you at the next meeting.  
73 for now, de Tom, WB8N

## QSL CARD of the MONTH

This month's QSL card comes to us from Mike Cegelski, K8EHP. Mike is an avid fox hunter and an active member of C.A.R.S.

If you would like to see your QSL card in the newsletter, give me one at a meeting or e-mail me your card to [newsletter@2cars.org](mailto:newsletter@2cars.org).

CLEVELAND, OHIO 44135 USA  
14111 ST. JAMES AVENUE



CONFIRMING QSO WITH		DAY	MONTH	YEAR
UTC	MHz	RST	2-WAY	QSL

CUYAHOGA COUNTY GRID EN91 A STAR QSL 73, D. MICHAEL CEGELSKI

The Wobbly Oscillator is a monthly publication of the Cuyahoga Amateur Radio Society, P.O. Box 32164 Independence, OH 44131-0264.

Articles from this newsletter may be reprinted in any Amateur Radio related publication, provided credit is given to this newsletter and the author, if known. All submissions to this newsletter should be e-mailed in .doc., .wpd, or .txt format to: [newsletter@2cars.org](mailto:newsletter@2cars.org) by the end of the month for publication in the next month's issue.

Also, by reading this, you have committed yourself to check into the weekly net and attend the next C.A.R.S. meeting.

## **Facts from the 1500's: Part two**

In those old days, they cooked in the kitchen with a big kettle that always hung over the fire. Every day they lit the fire and added things to the pot. They ate mostly vegetables and did not get much meat. They would eat the stew for dinner, leaving leftovers in the pot to get cold overnight and then start over the next day. Sometimes stew had food in it that had been there for quite a while. Hence the rhyme, "**Peas porridge hot, peas porridge cold, peas porridge in the pot nine days old.**"

Sometimes they could obtain pork, which made them feel quite special. When visitors came over, they would hang up their bacon to show off. It was a sign of wealth that a man could "**bring home the bacon.**" They would cut off a little to share with guests and would all sit around and "**chew the fat.**"

Those with money had plates made of pewter. Food with high acid content caused some of the lead to leach onto the food, causing lead poisoning death. This happened most often with tomatoes, so for the next 400 years or so, tomatoes were considered poisonous.

Bread was divided according to status. Workers got the burnt bottom of the loaf, the family got the middle, and guests got the top, or "**upper crust.**"

Lead cups were used to drink ale or whiskey. The combination would sometimes knock the imbibers out for a couple of days. Someone walking along the road would take them for dead and prepare them for burial. They were laid out on the kitchen table for a couple of days and the family would gather around and eat and drink and wait and see if they would wake up. Hence the custom of holding a "**wake.**"

England is old and small and the local folks started running out of places to bury people. So they would dig up coffins and would take the bones to a "bone-house" and reuse the grave. When reopening these coffins, 1 out of 25

coffins were found to have scratch marks on the inside and they realized they had been burying people alive. So they would tie a string on the wrist of the corpse, lead it through the coffin and up through the ground and tie it to a bell. Someone would have to sit out in the graveyard all night (the "**graveyard shift**") to listen for the bell; thus, someone could be "**saved by the bell**" or was considered a "**dead ringer.**"

And that's the truth... Now, whoever said that History was boring !!!

73, de W8GC

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## **HAMATLAS ON THE WEB!**

Darek, SP6NVK, informs OPDX that he has started a new ham atlas service on the Web after 4 years of work on it. This service contains the complete information on all 337 DXCC Entities, over 3000 pictures and 1100 maps. He hopes everyone will enjoy and be satisfied in using his FREE service.

The HamAtlas Web site is available at:  
<http://www.hamatlas.eu/>

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## **Dues Notices**

**It's February 1st and we only have 25 more members that need to pay their dues. I appreciate all of you who already paid. If you are unsure if you still owe, please give me a call 216-524-7711 (days) or 216-520-2621 (evenings).**

**Tina W8HBI  
Treasurer**



## CARS 2007 Officers & Committees

### Audit

WT8O \*\* KC8YSV, K8KR

### ARRL Liaison & Media Representative

KC8YSV \*\*

### Awards

K8VJG \*\* WA8GEO, W8HBI, WB8N

### Christmas Party 2007

W8HBI \*\* N8IS, KB8QHJ, KC8ZBN

### Community Education & School Programs

KD8V \*\* KC8YSV, WA8SLN, K8VJG

### License classes

WT8O \*\* W8GC, K8DAV

### Development

W8GC \*\* All officers

### Diabetes events

WB8N \*\* All CARS members

### Field Day

WT8O \*\* WA8GEO \*\* + All CARS members

### Good Operating Practices class

W8GC \*\*, WB8N, K8DAV, N8IS, K8KR, K8ME

### 2007 ARRL Great Lakes convention

W8GC \*\*, W8HBI, KB8NW, N8DJX, N8IS, WT8O  
WA8GEO, WB8N, KC8YSV, K8DAV, K8ME,  
WA8SLN

### Interference & Jamming

WB8N \*\* N18Z, N8IS, W8GC

### Lighthouse events

WT8O \*\* 440-572-1544

### Mentor/Elmer

KC8YSV \*\* K8VJG \*\* WB8N, W8GC

### Membership

W8HBI \*\* W8GC \*\*

### Museum Ship W. G. Mather W8WGM

K8ME \*\*

### NET

WT8O \*\*

### WO/Newsletter

WB8N \*\* 440-232-4193

### Program directors

KC8YSV \*\* W8JAK \*\*

### QSL manager - NO8A, W8WGM, W8BM &

WA8CMS

WB8N \*\*

### Refreshments

KB8UGT \*\* KB8DTC \*\* K8VJG \*\*

### 50/50

N8KAY \*\*

### Scholarship

WA8SLN \*\* N18Z, KD8BAO, K8VJG, WT8O  
WA8GEO

### Summer Picnic

K8KR \*\* N8IS, W8HBI, W8MET, N8LRS

### Sunshine (welfare)

KD8V \*\* 330-666-8721

### Technical

K8DAV\*\* W8GC \*\* N8OVW, WB8N

### VE exams

N18Z \*\* 216-642-8705

### Web Master/e-mail

K8DAV \*\* W8GC \*\*

\*\* chairman or co-chairman

## 2007 Officers

### PRESIDENT

Bob Check W8GC 216-524-1750

president@2cars.org

### VICE-PRESIDENT

Bill Savage WA8GEO 216-524-6151

vice-president@2cars.org

### SECRETARY

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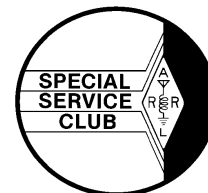
secretary@2cars.org

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## Board Members & License Trustees

### even year executive board 2 year term

N8IS

KC8YSV

K8DAV

### odd year executive board 2 year term

K8KR

N18Z

WB8N

### K8ZFR trustee

WB8N

### NO8A, WA8CMS &

W8BM trustee

W8GC



