



CUYAHOGA AMATEUR RADIO SOCIETY

The Wobbly Oscillator



OCTOBER 2003

Volume XXXII

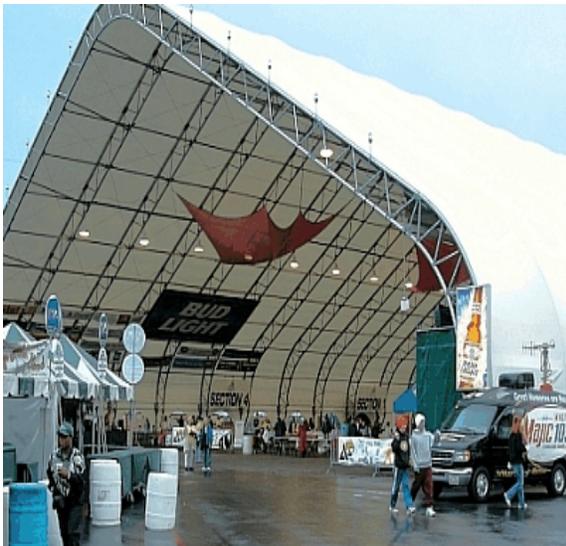
Issue X

FROM THE PREZ

Thanks to all who attended our September meeting. Ron, K8VJG provided refreshments as Toby, KC8TID was attending the Extra class. Kayla, KC8RYH collected \$34.00 for the 50/50 drawing this month, Bob KC8MRC won the 50/50 raffle and took home \$16.00, congratulations Bob.

October 4th we provided communication and 4 SAG wagons for the American Diabetes walk in downtown Cleveland. The walk began at the Tower City Amphitheater through a 3 ½ mile course ending at the Amphitheater. They had 543 walkers. CARS members volunteering to help at the walk were Toby KC8TID, Ron K8VJG, Terry KB8DTC, Kayla KC8RYH, Tina W8HBI, Steve N8IS, our team leader Tom WB8N and myself. A special thanks to all who helped, see pix below and www.cars.org for additional pix and details.

Our next 2 projects will be after this month's



Tower City Amphitheater at 8:00am

meeting JOTA on October 18th and the Copley school outing on October 23rd, please volunteer for one or both events as we can use the help, contact Steve N8IS about JOTA and Dave KD8V regarding Copley school.



CARS members signing in

We had testing for the extra class Wednesday October 8 and 10 of 12 passed. Congratulations to all as they really studied hard to upgrade to extra class.

We will have nominations for 2004 officers at our October 15, 2003 and vote on a change to the By-Laws so please try to attend.

de Bob, W8GC

Contents:	
From the Prez	1
Meeting Minutes	2
Vice President's Interview /Programs	3
Ohio Section News	4
Trivia / Great Lakes Convention	5
DX-ing	6
Solar Flares	7
The Random Wire	8
Committees	9

Minutes of the CARS Meeting September 17, 2003

CARS President Bob Check, W8GC called the meeting to order at 7:30PM held at the Busch Community Room in Parma. A motion to accept the minutes of the August 20, 2003 meeting was made by Gordon W8GTK and seconded by Bruce N8DJX. A vote was taken and passed.

The treasury balance was reported by Bob W8GC, as Mike KB8UGT was at the Extra class. Bob also reported that Busch now charges \$40.00 for our 8 meetings per year at their Community Room. This is an administrative fee.

The Board members have unanimously recommended to the CARS membership that we spend around \$1200.00 for equipment add the 82 repeater on the Channel 55 site. With a receive from the Snowville Road tower and another from the Shaker Heights location will give us much better coverage. We can also drop a phone line at Snowville Road saving the club \$400.00 a year. Our main Vince, N8OVW will also reinstall the 6 meter TR&RC units to see if we can get the 6 meter repeater working again. It has been at least 4 years since our 6 meter repeater has worked. A motion to accept this report and the expenditure of the \$1200.00 was made by Lin, WD8SDP and seconded by Jack, WB8JAK. A vote was taken and passed.

Bob, W8GC informs us that Paul, KB8LWM's son suffered a broken arm and is home from the hospital.

Gordon, W8GTK reminded us that we need to reserve the bus for the Dayton Hamfest in 2004.

A motion by Steve, N8IS, and seconded by Fred, NO2O to reserve a bus was made. A vote was taken and passed. A report on the Lighthouse events was given by Toby, KC8TID. More participants are needed and we also need two volunteers for the committee. Contact Toby at 440-572-1544 or e-mail at kc8tid@cars.org.

Dave, K8DAV made a report on the Website. Logos for the Field Day contest are requested ASAP by Steve, N8IS.

A vote on the membership of Harold McDermott, W8GEG was taken and passed. Welcome Harold!

Tom, WB8N requests articles for the WO and reported on the VE session of September 14, 2003.

Bob, W8GC reported our ARRL Liaison and Affiliated Club Coordinator Brenda Krukowski, KB8IUP and her husband will join us for a 2nd visit at our November meeting.

Nominations for officers for 2004 to be held at the October 15 meeting. Voting will be at the November 19 meeting as announced by Bob, W8GC.

This year's Christmas party to be held on Friday December 19, 2003 at the Independence Civic Center. The committee headed up by Gary NI8Z, Tina W8HBI, Steve N8IS and Tom WB8N are making plans.

A discussion on the BPL legislation was opened by Bob, W8GC. Lin, WD8SDP made a motion which was seconded by Dave, K8DAV to donate \$200.00 to the fund of the ARRL to help fight against the legislation of Broadband Over Power Lines. A vote was taken and passed.

Bob, W8GC read the following proposed changes to the By-Laws to be voted on at the October 15 meeting as he recommends.

Proposed changes to Article II-Board of Directors Section 1&2 as follows:

Section 1: The Board of Directors shall consist of six (6) elected Board Members.

Section 2: The six (6) elected Board Members shall be elected to two year terms according to the terms stated in the By-Laws. Three Board Members will be elected in the odd year; three Board Members will be elected in the even year. If this change passes the current K8ZFR trustee shall continue as a member of the Board for the year 2004 (considered as an odd year board member) with a new Board member being elected to a 2 year term as an even year board member at our November 2003 elections, three (3) even year members to be elected for the 2004-2005 term.

Bob, W8GC and Steve, N8IS moved to accept the By-Law changes which will lay over to be voted on at the October meeting.

A presentation on ARDF, Amateur Radio Direction Finding, will be given by Dick Arnett, WB4SUV and Bob Frey, WA6EZV at the January or February meeting in 2004 as announced to us by Steve.

A report on JOTA to be held on October 18, 2003 was given by Steve, N8IS. Steve also reported on attending the ARRL Convention in Findlay, Ohio on September 6 & hamfest on the

7th, 2003, as a representative of CARS.

The jacket that the Board recommended as a club jacket was displayed. They will sell for about \$40.00 and a \$20.00 deposit toward the jacket is needed for those who want to buy one. Contact Steve, N8IS

The walk-a-thon for Diabetes is to be held on Saturday October 4, 2003 starting at 8:00AM at the Tower City Amphitheater, in Cleveland as reported by Tom, WB8N. Approximately 10 volunteers for communications are needed.

Dave, KD8V reported on the restoration of the Railroad Station in Copley, Ohio and on the Special Event Station to be set up at Arrowhead School in Copley on Thursday October 23, 2004.

The 50/50 drawing was won by Bob, KC8MRC. His share was \$16.00. A Medina County Hamfest ticket was won by Dave, K8DAV, a Yaesu logbook by Bob, W8GC and a map by Bernie Vido, a new member who recently passed his Tech license test but had no call yet. Dave, K8DAV made a motion to adjourn the meeting and seconded by Lin, WD8SDP. Motion passed. Bob W8GC adjourned the meeting at 8:57PM.

Respectfully submitted by Secretary:
Ron, K8VJG..

UP-COMING MEETING PROGRAMS

By Gary Dewey, N18Z -Program Chairman

The following meeting dates will (or should have) programs:

October meeting -- A video of the latest and greatest from TenTec. The new 538 Jupiter Transceiver with a factory tour included by Scott Robbins, W4PA.

November meeting -- Brenda Krurukowski, KB8IUP, the Affiliated Club Coordinator for the Ohio ARRL section will give an update of Ohio activities.

December meeting Dec 19th, Christmas dinner at the Independence Civic Center 7pm. See you there!

VICE PRESIDENT'S INTERVIEW

By Steve Riley, N8IS

Happy October! This month's interview is with Carl Beduhn K8AV. I think you'll all be very surprised to learn many new things about him.

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

Carl: I was sent by the US Army to radio repair

school in 1956 for 6 months. Then I was sent to a very small Army post in Germany. The post had a ham shack where I would spend most of my off time. I talked home on a phone patch to my mother in Cleveland and that got me hooked on ham radio.

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

Carl: Coming home from Germany and starting a family I never had the time or money to get involved in ham radio until 1986 when I first became licensed. I hold an Extra Class license now.

Steve: What do you like about Amateur Radio?

Carl: I like so many things about ham radio but I think the most fascinating thing I find about it is the ability to talk to people any where in the world.

Steve: What are your favorite bands to work?

Carl: My favorite bands are the HF bands.

Steve: Do you collect QSL Cards, if so, how many confirmed countries do you have ?

Carl: YES, I collect QSL Cards. Of the 335 current countries I have:

Phone: 333 confirmed

CW: 328 confirmed

RTTY: 304 confirmed

Mixed: 333 confirmed

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

Carl: I have Honor Roll on Mixed-Phone and CW. I have 5 band DXCC with endorsements on 12 & 17 meters and with my 30 meter endorsement application just sent to the ARRL pending.

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

Carl: I like to work in my yard. I also am just getting into digital photography.

Of course the computer takes a lot of my time.

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

Carl: Well for the most part I have my dream station now with my Yaesu Mark V and my 3 element SteppIR antenna. I just wish I had the lot size that would allow me to put up a 160 meter antenna.

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

Carl: I retired after 31 years as a police officer at the end of 1998. I was with the City of Maple Heights and retired as a police Lieutenant for the last 18 years or the 31 years.

WOW -- can you believe all those contacts. I only wish I can accomplish what Carl has. I hope you all enjoyed getting to know Carl K8AV as much as I did.
Steve Riley N8IS

Below is a photo of the list of sponsors for this year's America's Walk for Diabetes. If you look hard, under "We would also like to thank" you can see Cuyahoga Amateur Radio Society, on the bottom left, third from the top.



FROM THE OHIO SECTION NEWS
By Don Dziubakowski, KC8NIX

OCTOBER SECTION NEWS; The Ohio Section suffered a great loss with the sudden death of Loren "Larry" Rain, WD8IHP, of Mansfield. As Section Emergency Coordinator the past four years, Larry brought Ohio's ARES program into the 21st century by enhancing the roles of the

DEC's, filling county vacancies and joining the Ohio Single Side Band Net into the emergency response plan. John Chapman, WB8INY, of Columbus, DEC of District Seven (Central Ohio), will serve the Section as interim SEC until November 1 when a permanent replacement will be named.

October is the month ham radio and the Boy Scouts join forces. It is called "Jamboree On The Air" (JOTA). Many local clubs, including CARS, will give Boy Scouts actual on air experiences.

George Henzler, WB8HHZ, of Toledo, District Emergency Coordinator and long time supporter of amateur radio activities, is the 10th Ohio ham to receive the Alan Severson, AB8P, (SK) Memorial Award for outstanding service to the Ohio Section. The presentation was made during the ARRL Forum at the Findlay Hamfest.

"Pioneer Radiator," the newsletter of the Pioneer ARF of Akron (Summit County), won the 12th annual Ohio newsletter contest, also awarded at the Findlay Hamfest. Second place was awarded to "HF Chronicles" of the West Chester ARA (Butler County) and third place was awarded to "News Unwired," the newsletter of the Grant ARC (Adams County). The winning editors are Jesse Wall, KA8YYZ, Akron (first place), Mike Ashley, KC8PTP, West Chester (second place) and Carolyn Donner, N8ST, Georgetown (third place). *(Editor's note...This is the award that CARS won for the Wobbly Oscillator last year. Once you win, you are in-eligible for five years. Bummer*

OHIO SECTION CONGRATS TO: George Race, WB8BGY, of Albion, MI, the former Great Lakes Division Director for being the first winner of the George Wilson W4OYI, plaque.

Mr. Race gain prominence for traveling more than 600,000 miles within the Division (Michigan, Ohio, Kentucky) during his term of office representing the ARRL. Mr. Wilson, W4OYI, of Owensboro, KY, a former Division Director served the ARRL as National President - the only

Great Lakes Division member to do so. Mr. Wilson, as League attorney, argued the 1993 amateur radio antenna case in Federal court, which led to the famous PRB-One - the FCC directive solidifying ham radio tower privileges.

TRIVIA QUESTION OF THE MONTH

What Country Artist is/was not a licensed amateur radio operator?

1. Ronnie Milsap
2. Patty Loveless
3. Chet Atkins
4. Garth Brooks

Answer found elsewhere in this issue.

ARRL Great Lakes District Convention 2003

by Tina Check W8HBI

After attending the Great Lakes Convention in Findlay the weekend of September 6 & 7 I definitely think it was a unique opportunity. It would be great to have our club represented at future events. (If you would like to attend a future event, let your club leader know.)

We arrived in Findlay around 10:30 a.m. and picked up our convention packets at the Findlay Inn. The parking lot was quite a site with all the different types of mobile antennas on the vehicles. Many cars also had vanity license plates too.

During the opening ceremony at noon, the first thing they did was play the Walter Kronkite narrated video about Amateur Radio. Director Jim Weaver K8JE made introductions of all the involved ARRL Staff members and there was brief discussion with Jim Bridgewater AA8JD from the FCC Detroit Office. He was humorous in saying he drew the short stick and had to come talk to us. He was joking of course, and told us that he is an inactive ham radio operator. Many wanted to inquire about BPL, however he made it very clear he wouldn't answer any questions relating to that issue. Joe Phillips K8QOE passed around a paper to have everyone sign that would be attending the special induction ceremony of the Royal Order of the Wouff Hong being presented after the Banquet. After signing our names to the

list, we overheard the man sitting next to Steve, N8IS tell another, "You don't want your name on that list !"

Around 12:30 p.m. the meeting was adjourned and split into two separate seminars that you could choose from. We attended a seminar on how to improve amateur radio clubs. We thought they were going to inform us on how to improve the club, but it was actually different. Around the room introductions were made by all: name, call sign and club you are representing. Then they would throw out topics to see what your club does and other clubs would be able to learn and grow off your ideas.

They talked about speakers and what sources you can use to find them. Many clubs have speakers that talk about things not pertaining to Amateur Radio at all. Some other ideas were Power Companies, Gas Company, ODOT, Fire Safety, Police Officers and also getting members within the club to do speaking about personal experiences. Some clubs have a Tech Night where after a short club meeting people get to show off home-made creations, pictures or just tell others about things they have done. To improve attendance at meetings, they suggested giving every member a job, and mentioned that people are less likely to volunteer when asked in an open forum for volunteers. Next they talked about holding Amateur Radio Classes and educating the public. We are definitely top notch in this department, holding classes and ve exams. One interesting suggestion given to us was to hand out a membership application and information about our club at VE Test Sessions that include a discount coupon to join our club, which we already do.

Some clubs mentioned that when they hold Tech Classes in the summer months they get good attendance from school ages children. (Because they are able to take the class without interfering with regular school work.) There were several other topics on the agenda, like Newsletters and Leadership, but our time was up. The next seminar group was lining up at the door.

As we starting cleaning up, we were given a message that a man wanted to speak with Steve N8IS in the Atrium. We followed him out the door

as he was lead by another man to the Atrium. a He introduced himself as Denny Wilkinson VE3EUI, Net Manager for the Trans Provincial Net. During the seminar introductions he realized Steve N8IS was involved along with Bob Check W8GC and Ron Borkey K8VJG in tracking down their Net Jammer. He invited Steve along to meet Jim Bridgewater AA8JD from the FCC Detroit Office. Jim was the Field Investigator on this very case. All involved got together for a meet and greet. Photos can be seen at:

www.tpn7055.ca/ve3eui.html. It was a great honor to meet Denny VE3EUI. He is an extraordinary individual and is a great inspiration to many.

We checked into our room and headed for the next seminar about Amateur Radio Direction Finding conducted by Robert Frey, WA6EZV and Dick Arnett, WB4SUV. The entire seminar was informative and the direction finding equipment they have was amazing. We have invited them to speak at an upcoming CARS Meeting. During a slide show we even got to see a picture of one of our club members !! Mike Cegelski, K8EHP had just attended a regional championship and was in a group photo.

There was a short break before the banquet started. Many awards were presented to hard working ARRL Members. Denny Wilkinson VE3EUI received a special award. The achievement award was for his dedication and involvement in international issues. A club in Kentucky won the Newsletter Award. (I heard that we can't enter for 5 years after winning. So 4 more years until we can attempt to reclaim that award.)

After the banquet, we attended the special induction ceremony of the Royal Order of the Wouff Hong. Since it's all secret I can't disclose anything.....but the goat wasn't injured in anyway. If you are invited to attend a Wouff Hong, I would highly recommend it :)

73, Tina **W8HBI**

DX-ING CAN BE DANGEROUS

From W3UR's Daily DX Bulletin

The 3C0V operation on Annobon Island has ended prematurely, with the operation shut down by "a serious official local order." They have been asked to leave. OD5NJ, Gaby, says that at 10 AM local in the morning on the fourth of October (Saturday) the four operators got a serious warning to "stop every activity on radio." "The crew is fine but they thought they could leave but they cannot." The specific reasons for the official stoppage is still unknown beyond those on the island. The operators are reportedly worried about the next few days but believe things will be cleared up.

Prior to these major difficulties, the operation was "humming along," but struggling with some problems with filters, other technical problems, and the weather. The 3C0V operation first went on the air September 26th and was expected to be there until October 11th.

Several reports have it the group was told they had 24 hours to pack their gear and get off the island, "or else." But, it appears that perhaps their boat was not close enough to get them away that fast, leading to the current complications of the official demand they leave immediately but their inability to comply with that order.

Later, word was received from OD5NJ, Gaby, who is the pilot station for 3C0V. Gaby received a 10 second phone call from EA5BYP, Elmo, who reported "that the military soldiers allowed only the three operators to go back to Spain". There are four team members and it seems that DJ9ZB, Franz; EA5FO, Victor; and EA5YN, Vicente; were released.

It appears that Elmo will be remaining on the island as the phone call was cut off. No one knows how the guys were being sent back home (via plane or boat).

Yesterday's report was the 3 operators are home safe but saying nothing. The guess is they are worried about Elmo's safety?

SOLAR FLARES ON STEROIDS

Submitted by Steve Riley, N8IS
Reprinted from the NASA Web Site

Solar flares that scorch Earth's atmosphere are commonplace. But scientists have discovered a few each year that are not like the others:

September 12, 2003: On August 24, 1998, there was an explosion on the sun as powerful as a hundred million hydrogen bombs. Earth-orbiting satellites registered a surge of x-rays. Minutes later they were pelted by fast-moving solar protons. Our planet's magnetic field recoiled from the onslaught, and ham radio operators experienced a strong shortwave blackout. None of these things made headlines. The explosion was an "X-class" solar flare, and during years around solar maximum, such as 1998, such flares are commonplace. They happen every few days or weeks. The Aug. 24th event was powerful, yet typical.

A few days later--no surprise--another blast wave swept past Earth. Satellites registered a surge of x-rays and gamma-rays. Hams experienced another blackout. It seemed like another X-class solar flare. Except for one thing: this flare didn't come from the sun. It came from outer space. "The source of the blast was SGR 1900+14, a neutron star about 45,000 light years away," says NASA astronomer Pete Woods. "It was the strongest burst of cosmic x-rays and gamma rays we've ever recorded."

SGR 1900+14 is a special kind of neutron star called a magnetar. "Magnetars have the strongest magnetic fields in the universe: a million billion (10^{15}) gauss," he says. For comparison, the magnetic field of the sun is less than 10 gauss in most places, and about 1000 gauss near sunspots. "They're solar flares on steroids," quips Woods.

When the blast wave from SGR 1900+14 arrived on August 27, 1998, it hit the night side of our planet--something flares from the sun never do--and scorched Earth's upper atmosphere. The

radiation broke apart atoms and molecules into charged ions. Ions interact with radio signals, either absorbing or reflecting them, so radio listeners knew something had happened. For instance, a registered nurse in Seattle was driving home from work at 2:00 a.m. listening to a local program on her car radio. The station faded--a blackout--and was moments later replaced by country music from Omaha, Nebraska.

On the US east coast, where dawn was breaking at the time, hams chatting locally suddenly picked up voice transmissions from distant parts of Canada. Strange!

These propagation effects, so much like those experienced during ordinary solar flares, quickly subsided. No harm was done. Nevertheless, the event made a deep impression on astronomers.

It happens more often than most people know. Since 1998, Earth has experienced "about 10 significant extraterrestrial ionization events," says Umran Inan of Stanford University.

Many things can change the ionization of Earth's atmosphere," adds Inan. "Lightning can do it. So can sudden bursts of auroras at high latitudes." But these things cause *local* ionization. Solar flares, on the other hand, have *global* effects, ionizing the top of Earth's entire day side atmosphere.

Flares from magnetars can ionize the night side, too. These signatures--night side vs. day side, global vs. local--help Inan identify the source of the ionization. His "unknown sources" are probably magnetars not yet discovered by astronomers.

The next time you're driving home in the middle of the night and, unexpectedly, a country tune blares out of your radio, you might wonder ... did a magnetar do that?

The cosmos are full of the strangest surprises.

THE RANDOM WIRE

By Tom Wayne, WB8N

BRRRRRR!

Boy, just like that, and Summer was over and it was Fall! And cold! And rainy! Well it finally cleared up and as I write this the sun is out and the weather is actually warm. You know what that means? Time to get busy on your antenna projects before the snow flies! This means you, Gary. But with the Fall weather comes the opening of the HF bands. Ten meters has been a dud for most of the summer, but only yesterday I worked a Czech (no relation to Bob) station on 28.482 MHz SSB and a station from Oman on 12 meters, on 24.899 MHz, CW. So things are looking up!

ELECTION TIME

At our next meeting it will be nominations for officers for the coming year. Do you have someone you want to see elected? Perhaps YOU want to run for an officer position or for the executive board. Election will be at the November meeting.

CHRISTMAS PARTY

The CARS annual Christmas party will be held in lieu of the December meeting. All that attended last year had a great time, especially enjoying the magician that wandered among the tables doing slight of hand that boggled the mind and baffled the eyes. Wonder what great form of entertainment Gary has planned for us this year, HMMMMM?

DIABETES WALK

I want to thank the members that volunteered this year for the annual America's Walk for Diabetes. They are: President Bob Check, Tina Check, Kayla Check, Steve Riley, Terry Pillat, Toby Kolman, Ron Borkey, and myself. We lucked out with the weather...The morning was cloudy and cool, but after raining all night long, the rain had stopped. Then the wind came up and it started to pour! Suddenly, as if a miracle happened, just as the walkers were to begin their walk, the rain stopped, it cleared up and the sun even came out for a bit! The Diabetes Assn. greatly appreciates our volunteering for their events. Without us they would have some serious difficulties keeping track of the participants,

injuries, walkers that could not finish the walk, etc. So thanks again folks

EXTRA CLASS'S WITH CLASS!

We now have several additional CARS members who have passed their Amateur Extra Class license exam! That makes at least 12 CARS members that have earned their Amateur Extra Class license in the last three months! Way to go folks! The latest to achieve this goal are Gordon W8GTK, Toby KC8TID, Terry KB8DTC, Harold W8GEG, Brian KC8WFI, Larry KC8VZZ, Bill WA8GEO, Mike KB8UGT, & Don KC8NIX. All but two took the recent Extra Class put on by CARS. One non-member also passed, Harry W8PXY. Maybe he'll join as a result of having taken the class and passing his exam.

This just in...Mary Cegelski just "aced" her Tech exam! Her call is KC8YLC. Congrats Mary! Mary is Mike (K8EHP) Cegelski's wife.

SPECIAL EVENT STATION

The Cuyahoga Amateur Radio Society will be running a special event station at the Arrowhead elementary school in Copley OH on Thursday Oct.23. We will be celebrating their Nature Zone, which has had national recognition. This is really a fun event as we get to let the kids operate on the air, send their names via Morse Code, etc. Contact Dave Dressler, KD8V if you would like to be a part of this event. You can reach him at 330-666-8721.

JAMBOREE ON THE AIR

The Cuyahoga Amateur Radio Society (CARS) is setting up a station for JOTA on Saturday, October 18, 2003. Steve Riley, N8IS is in charge of this event. This will be held at the Independence Kiwanis Pavilion in Elmwood Park, 6363 Selig Dr., Independence, OH 44131. Times for the event are Saturday 9:00 a.m. to 3:00 p.m. JOTA is an official Scouting event held the every year on 3rd weekend of October. (It started in 1958 !) Our event will be specifically planned around the attendees. If you know anyone who may be interested please have them contact Steve Riley N8IS at 216-328-0432 or by e-mail at n8is@cars.org. We are currently looking for volunteers to assist us with the event.

OH, BY THE WAY...

The answer to the trivia question is #4. Garth Brooks. Yes, all the others are or were licensed Hams. That's it folks...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

Dwaine K8ME 440-582-3462

Christmas Party 2003

Gary NI8Z**

Community Education & School Program

Dave KD8V ** 330-666-8721

Steve N8IS ** 216-328-0432 , Ron K8VJG

Dayton Bus

Bob W8GC

Elmer

George K8KR ** 216-941-5304

Field Day

Tom WB8N ** 440-232-4193

Aaron KC8INE , Bob W8GC, Steve N8IS Gary NI8Z, all members

Ham License classes

Bob W8GC** Gary, NI8Z ** Tom WB8N,
Steve N8IS, Don KC8NIX, Ron K8VJG,
Bruce N8DJX, George K8KR, Dave K8DAV

Interference & Jamming

W8GC**, NI8Z, N8IS, N8TCP, WB8N

JOTA

Steve, N8IS** KC8NIX**, KC8TIE**

Lighthouse events

Toby KC8TID ** 440-572-1544, Bob W8GC
Steve N8IS

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 **

WO/Newsletter

Tom WB8N ** 440-232-4193

W8HBI, W8GC

Program director

Gary NI8Z, ** 216-642-8705

QSL manager-NO8A & W8WGM

Tom WB8N ** 440-232-4193

Refreshments & 50/50

Toby KC8TID ** 440-572-1544

50/50 Kayla KC8RYH

Sunshine (welfare)

Dave KD8V ** 330-666-8721

Technical

Roy KB8VJF ** Bob W8GC **

Terry KB8DTC, Vince N8OVW

Dave K8DAV, Tom WB8N, Jack W8JAK

VE exams

Gary NI8Z ** 216-642-8705

Web Master/e-mail

Dave K8DAV ** 440-243-3593

Bob W8GC **

** chairman or co-chairman

