



The Cuyahoga Amateur Radio Society

THE WOBBLY OSCILLATOR

News

Activites

Articles

Minutes

February 2002

Vol. 31

Issue 2

FROM THE EDITOR'S DESK

Well, it's my turn to give editorship of the Wobbly Oscillator a shot This is a new experience for me and I am going to need all the help I can get.

Send your contributions to the same address as usual...newsletter@cars.org. Or mail me a disk with your composition on it via the U.S. Postal Service. Just PLEASE get your contributions to me in a timely fashion so that I can get them in the up-coming issue. I am going to set a deadline of the end of each month. There will be rare occasions when I will have to extend this deadline, I am sure, but I am going to try to hold to it. So, if you have any information or articles that pertain in some way to amateur radio, don't hesitate to send them to me for publication in your newsletter. Yes, it is YOUR newsletter, and it cannot be any better than what I have to work with So let's make your newsletter a good one. No, make that a GREAT one!

Thanks, and wish me luck.
73,
Tom, WB8N

V E NEWS

The CARS Volunteer Examiner group plans to hold testing sessions on the following dates:

- March 10
- May 5
- July 14
- Sept 8
- Nov10

The test sessions will be held at the old Independence Town Hall, 6652 Brecksville Road, Independence, Ohio.

The sessions start at 9am. The fee for testing is \$10. Anyone planning on taking a test should bring with them a photo ID, an ink pen, two pencils with erasers, the fee and if you have an existing license, you must bring the original plus a copy. Call 216-642-1399 to register for a test or to ask for more information.

de Gary, NI8Z

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From The Prez's Shack

Our January 16 meeting was well attended and enjoyed by all, we had 27 members and 2 visitors.

Ron K8VJG provided doughnuts, coffee and pop for the meeting. Ron also collected \$52.00 for the 50/50 drawing, Gordon KC8IOU was the winner of \$26.00!

The board has voted to change the date dues are due and eliminate a lot of confusion by having all dues expire on December 31 of each year. For the remainder of this year dues will be pro rated, as the average monthly cost for dues is \$1.67 all February members will be billed \$18.33 instead of \$20.00. Each following month the 2002 dues will go down by \$1.67 each month till the end of the year. The membership committee will be sending notices to remind everyone how much to send. On January 1, 2003 everyone's dues will be due.

CARS has taken over the operation of Ham Shack on the W.G. Mather Museum Steamship. Bob W8GC, Gary NI8Z, Lin WD8SDP, Dennis KC8SEV, Mike K8EHP, Steve N8IS and Bob W2THU who is also the license Trustee comprise the Mather Committee. W8WGM will be the new vanity call for the W.G. Mather when the FCC goes back to processing vanity requests.

Gary NI8Z headed up the CARS team for our first January 22, 2002. The rest of the team includes Tom WB8N, Steve N8IS and myself. Class are being held at the Independence Civic Center 6363 Selig Dr. in the Willow room at 6:30 pm every Tuesday through March 19, 2002. The registration fee is only \$20.00 including materials. We had 11 pre-registered and 11 attending the class.

Depending on how fast the class completes the material we will likely have a special Ve session on the last day of class. We also intend to do a 5 week code class shortly after the completion of the Tech Class. Anyone interested in the code classes, please contact Gary Dewey NI8Z, at 216-642-8705.



Gary NI 8Z, giving the class instruction



Several of the class members listening to Gary NI8Z



The C.A.R.S. Volunteer Examiner Team

Top, left to right: Bob W8GC, Tom WB8N, Fred NO2O, George K8KR.

Bottom, left to right: Ron K8VJG, Gary NI8Z, Steve N8IS, Roger N8TCP

Hope to see you at the next meeting, February 20, 2002 7:30 PM at the Community Room of the Busch Funeral Home.

73, de Bob, W8GC

CARS 2002 Committees & Officers

American Red Cross Disaster liaison
Ev Chitester WA8EYF ** 216-581-3657
Judy Crane KC8FHE 216-524-1537
Jim Crane KB8SQF 216-524-1537

ARRL Liaison/media representative
Marc Rubin, KB8QHJ ** 440-717-0846

Community Education & School Program
Dave Dressler, KD8V ** 330-666-8721
Steve Riley, N8IS ** 216-328-9276
Ron Borkey, K8VJG 440-237-6718

Dayton Bus
Gordon Kolus, KC8IOU ** 330-225-6917

Digipeater
Tom Wayne, WB8N ** 440-232-4193

Elmer
George Pindroh, K8KR ** 216-941-5304
All members

Field Day
Tom Wayne, WB8N ** 440-232-4193
Aaron Clark, KC8INE** 440-526-9705

CBARC/Liaison
Dwaine Modock, K8ME 440-582-3462

CARS History
Ev WA8EYH 216-581-3657 **
Mike K8EHP 216-252-6640 **
Tom Wayne, WB8N

Jamboree on the Air
Roy Hadden, KB8VJF ** 330-468-3020
Paul Valley, KC8AMD ** 440-237-8116

Museum Ship W. G. Mather
Bob W8GC ** 216-524-1750
Lin WD8SDP ** 440-234-4227
Steve N8IS, Gary NI8Z, Bob W2CHU
Mike K8EHP, Dennis KC8SEV

Membership
Steve Riley, N8IS **

NET
Gordon KC8IOU ** Gary NI8Z, Tom WB8N,
Steve N8IS, Kayla KC8RYH

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

Program Director
Gary Dewey, NI8Z ** 216-642-1399

CARS QSL manager
Tom Wayne, WB8N ** 440-232-4193

Refreshments & 50/50 at meetings
Ron Borkey, K8VJG ** 440-237-6718

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

Technical
Roy Hadden, KB8VJF ** 330-468-3020
Vince Bak, N8OVW ** 216-635-2579

VE exams and Ham License classes
Gary Dewey, NI8Z ** 216-642-1399

Science Olympiad Tech Contest
Paul Valley, KC8AMD**440-237-8116

Web Master/e-mail
Greg Kopp, KG8O ** 216-577-1388
Marc Rubin, KB8QHJ 440-717-0846

Board Members
even year executive board;
Bill Koenig, AA8WJ 216-441-5978
Ron Borkey K8VJG 440-237-6718
odd year executive board;
Gordon Kolus, KC8IOU 330-225-6917
Terry Pillatt, KB8DTC 330-273-1043

K8ZFR trustee
Tom Wayne, WB8N 440-232-4193
NO8A trustee
Bob Check, W8GC 216-524-1750

2002 Officers
PRESIDENT:
Bob Check - W8GC 216-524-1750
President@cars.org

VICE-PRESIDENT:
Gary Dewey - NI8Z 216-642-1399
VicePresident@cars.org

SECRETARY:
Steve Riley - N8IS 216-328-9276
Secretary@cars.org

TREASURER:
Paul Valley-KC8AMD 440-237-8116
Treasurer@cars.org

Note: ** indicates chairman or co-chairman

Please mark your calenders and attend the next CARS meeting, Wednesday February 20, 2002, 7:30PM at the Busch Community room.

MEETING MINUTES

The January 16, 2002 Meeting was called to order by W8GC at 7:35 p.m. at the Bush Funeral Home Community Room. Introductions were made around the room. 27 Members and 2 Visitors were in attendance.

Bob KC8MRC moved to accept the minutes from the October meeting as posted in the WO and Ev WA8EYF seconded. All in favor.

Treasurers Report: Paul KC8AMD gave report. Also announced that dues have been set up so that all dues will be renewed on January of the new year. This year will be pro-rated to the end of the year.

Tech Report: Roy KB8VJF has notified the club of how the repeater sites are and the condition. A video of the equipment at the ch55 site was taken and will try to get a list together for inventory. And also a list of contacts for maintenance so we can get the antenna fixed. For now the phone line at the ch55 site will not be cancelled.

Hamfest: There will be no hamfest this year. We have several other events keeping the club busy several of which raise money, plus the last 3 years of the Hamfest have not been profitable for the club.

Paul KC8AMD has been appointed chairman of the Science Olympia Tech committee, maybe a new name after the committee gets going.

W.G. Mather: CARS has taken over the operation of Ham Shack on the W.G. Mather Museum Steamship. Which will reopen to the public in early May. Bob W8GC, Gary NI8Z, Lin WD8SDP, Dennis KC8SEV, Mike K8EHP and Steve N8IS will be on the Mather Committee. W8WGM will be the new vanity call for the W.G. Mather.

Sunshine: Aaron KC8INE sent Judy KC8FHE a get well card, she had carpel tunnel surgery on her right wrist.

School: Gary NI8Z talked about the Independence Middle School presentation by CARS on December 19, 2001 (67 students and 5 faculty attended) Two stations were set up for the 5th grade science class. Thanks to all who helped, Ron K8VJG was at the Cleveland Rainforest to make contacts on 10m SSB, Tom WB8N ran the 10m station at the school and Gary NI8Z ran PSK on 20m, Dave KD8V and Bob W8GC. Some of the kids even gave their name in code!

Net Control: Gordon KC8IOU talked about the net activities.

Dayton Bus: Gordon KC8IOU is getting ready for the Dayton Bus Trip. There are 39 seats still available at \$30.00 each. Bus will be leaving May 18th at 2:00 a.m. After a breakfast at Denny's on the way to Dayton the bus driver will drop us off at the door at the Hara Arena. You need to get your own admission ticket which is \$17 in advance or \$22 at the door. Call Gordon KC8IOU 330-225-6917 with any questions.

Membership: Motion to accept 3 new members Paul Tokar WA8TWS (not in attendance), Bob Evans K8AAB and Don Dziubakowski KC8NIX who both were in attendance were voted in as new members. They were presented with a book containing the constitution, by-laws, membership list and repeater user guide, plus each received a CARS mug and patch.

WO Editor: Tom WB8N reminded everyone to keep the articles coming in, e-mail to newsletter@cars.org.

50/50: Ron K8VJG reported that \$52.00 was collected and a the prize would be \$26.00 Winner of the drawing was Gordon KC8IOU.

continued on next page....

Great Lakes Search & Rescue: Tom WB8N announced that volunteers are needed Saturday January 19, 2002 to help with communication between base and the Rescue Teams. This will start about 10:00am and end around 2:00pm at the Portage lakes site in Akron.

VE Session: The VE Session of January 13th was successful with 3 new techs and 1 new extra. Thanks to all who helped out. Next VE Session is March 10th, 2002.

Tech Classes: Tech classes will be held at the Independence Civic Center Willow Room. Cd Exam Review/ Code CD and Copy of Book that goes with taped presentation are all included with the \$20.00 fee. There will be stadium seating. So far 10 have signed up for the class. (Code class will be after the Tech class ends in March)

A short demonstration of a APRS Program with a new Kenwood TH-D7 and laptop was given by Dave W8IXY.

The next meeting will be held February 20, 2002 at Bush Funeral Home at 7:30 p.m. Roy KB8VJF moved to close the meeting. Paul KC8AMD seconded. Meeting closed at 8:24 p.m.

de, Steve N8IS, Secretary

Veep Views

What's going on down at the FARM? In case you haven't heard the ARRL is working on farming. That is, they are looking to "farm out" the Novice segment of the Amateur Radio Spectrum. Here is a brief overview as was stated in a recent newsletter ...

ARRL BOARD ADOPTS MODIFIED NOVICE BAND REFARMING PLAN

The ARRL Board of Directors has adopted a modified proposal to reform the Novice bands, now that the FCC no longer issues Novice licenses. The Board met January 18-19 in Fort Worth, Texas.

The ARRL Novice Spectrum Study Committee had proposed allowing Novice and Tech Plus (or Technician with Element 1 credit) licensees to operate CW on General-class 80, 40, 15 and 10-meter CW segments at up to 200 W output. The panel recommended refarming the current Novice/Tech Plus CW subbands, in part to allow expansion of phone allocations on 80, 40 and 15 meters.

The Board approved a modified plan that would leave in place or slightly trim the amount of additional phone spectrum the committee had recommended for 75 and 15 meters. The amended plan would drop the US phone band to 3725 kHz on 75 meters but leave it at 21,200 kHz on 15 meters. The original plan called for dropping both by 25 kHz.

The 75-meter proposal would expand the phone band by 50 kHz for Generals over the present allocation and by 25 kHz for Advanced and Extra licensees.

On 15 meters, Generals would get another 25 kHz of phone spectrum, but phone privileges for Advanced and Extra class operators would stay the same.

The Novice Spectrum Study Committee's original recommendations for 40 and 10 meters were accepted. The ARRL plans to propose the modified refarming plan to the FCC later this year along with other regulatory requests." Nothing was said as to whether or not the amateur radio community gets to voice its opinion on this. It had to have been forthcoming since NOVICES now are considered "step-amateurs". Its not that they lose anything, in fact, they get to use extra CW spectrum that was open to the General, Advanced and Extra Class. So look forward to hearing more 5 wpm CW.

Gary Dewey, NI8Z
Vice President

THE RANDOM WIRE

By Tom Wayne, WB8N

Saturday morning dawned cold and overcast as four CARS members set out for Portage Lakes State Park, the location of the GLSAR, (Great Lakes Search and Rescue) a team made up of humans and canines, plus support members.

It took us a while to get to the site (went the wrong way for a while, but thanks to the talk-in of Steve KC8IVD at the site, and Terry KB8DTC who was sitting at his kitchen table with his hand-held and a map we were set on the correct route) but we finally arrived about a half an hour later than the 10 A.M start time. We quickly got briefed on what the scenario was to be and we got paired up with a search team (a dog handler, dog, and one or two support members).

For the morning session, there were four separate searches, consisting of a "victim" placed out in the woods, which the dog and its team were to find. The dog first sniffed a scent from an article of clothing from the victim. Then on instruction by its handler, the dog set out in search of the victim. Our job was to provide communications between the search team and the base using our hand-helds on a simplex frequency.

The base was set up inside the park maintenance building. It was a nice facility for us, with the base station set up in the back room, which was the work area of the building. There was food for the participants set up in the office area of the building. We will get to that later. The base station was made up of a dual-band 2-meter/70 centimeter mobile radio powered by battery, with a dual band antenna on the roof of the one story building.

The morning session went well, with the dogs finding their search subjects in good fashion. There was a debriefing after the morning session and we were then dismissed to take part of the vitals, which consisted of hot dogs and sloppy joes, with salad, fruit, cookies, muffins, soft drinks and coffee. This spread was provided by the GLSAR team members.

After lunch, another search was set up. This was to be an abandoned car, said to have been occupied by an adult male and two children, who had walked away from the car and were lost in the woods. Three teams set out to search for the lost family, at 15-minute intervals. Within just a few minutes, the first team located the children. It took the other two teams a bit longer to locate the lost adult male, but this was finally accomplished.

The entire time of the search sessions, Mother Nature provided snowfall. The weather was bearable though, as there was no wind to speak of and the temperature was in the low thirties. The GLSAR team appreciated our participation, as well as that of amateurs from the Pioneer ARC and a few other amateurs from the

Summit County area. Joe Miller K8EIO, the director of ARES District 5, which includes Cuyahoga County, was there for a while, observing the operation.

I wish to thank Sandy Carney KB8UOC, Mike Balach KB8UGT, and Gary Dewey NI8Z from CARS for taking a part of their Saturday to participate in this drill. Steve Hnatiak KC8IVD, who is a member of CARS as well as the GLSAR team, also participated, acting as communications officer, performing liaison between the search team and the amateurs.

The date of the next drill is not yet known, but will probably be sometime in the late spring, and hopefully we can provide support to this organization then as well.

The Great Lakes Search and Rescue team is based out of the Brecksville V.A. Hospital, where several of the members are employed. They started out as a search team to find walk-a-ways from the hospital, and now offer their services to area law enforcement as well. They are a volunteer organization and are responsible for the training of their animals. This is an organization with a worthwhile purpose.

If and when an actual search for an actual victim comes up, they will depend on us to provide communications for them. They have cell phones and FSR radios but when all is said and done, amateur radio comes through and does the job!

Again, thanks to all those from CARS that participated in this drill. I hope to see more of our membership participating next time.

PREPAREDNESS

Volunteering on drills such as this one and for public service events is one thing. You know when it is going to be held and you usually get ready a day or so in advance. If the weather is really nasty you can always just forget about it and stay home. Maybe the event would be cancelled or postponed in case of really bad weather. No big deal, right? But what if the real thing happened? What if the GLSAR got a call of a child lost in the woods or an elderly person wandered off in a rural area with lots of woods and fields, and we were called upon to provide our communications services? Would you be ready? Would you have a charged up battery for your hand-held rig, and a spare battery or spare rig ready and waiting? These are things we have to make sure of. The call could come at ten o'clock at night or any other time of the day or night. We have to be ready! It would also help to have a flashlight and batteries ready. A change of clothes is another item it might be prudent to bring along, depending on weather conditions and forecast. The main thing is to be prepared! After all, we are "Hams Who serve".

Remember, public service is one of the reasons for our existence as Hams and our frequency privileges.

continued on next page.....

CIAO FOR NOW (Hey! That rhymes!)

That's it for now folks. See ya next issue, or maybe next month at the February meeting. Hopefully I'll catch you on the air before then. Which brings me to another matter before I clear out of here.

Many of us have mobile rigs in our vehicles. Most of us work and travel to and from work in our vehicles. Turn on the rig and get on 146.82 and talk on the radio while traveling to and from work. There is usually someone listening at least! Don't be afraid to throw out your call: "this is WB8N listening 82" or something along that line. You never know, if more of us are listening, the more likely that someone will answer your call and you just might have an interesting qso to make the time go faster on your way to or from work. Even if you don't have a mobile rig, we all have hand-helds. Get yourself a mag mount antenna and hang your portable rig somewhere in the car. Use a hand mike, or a set of earphones with a boom mike, and get on the air! Nuff said for now.

73,
de Tom, WB8N

OTHER REPEATERS WE CAN USE

CARS member and technical guy, Vince Bak N8OV, is the owner of a 6 meter repeater and a UHF repeater that he has said we are free to use if so desired.

The 6 meter repeater is on 53.190 MHz, with a negative offset of 1 MHz, 52.190. The PL for this repeater is 107.2.

The UHF repeater is 444.325 MHz, with a positive offset of 5 MHz, 449.325. The PL for this machine is 131.8.

These repeaters are located in North Royalton. Give them a try. Thanks Vince.

AREA HAMFESTS

February 10 th, Inter City ARC, Mansfield OH

February 24 th, Cuyahoga Falls ARC, Cuyahoga Falls OH

March 24 th, Lake County ARC, Madison OH

Hope to see you at one or more of these hamfests! These are usually pretty good hamfests, are looking for something special either radio or computer related, you stand a good chance of finding it at one of these hamfests.

Answers to Trivia Quiz on Page 8

1 - B, 2 - B, 3 - B, 4 - D

THE GEARVAKf BULLETIN

The f is silent

Reprinted with permission.

A word about the GEARVAKf (the f is silent) Bulletin. GEARVAKf stands for the Greater Enon Amateur Radio Vention and Kite fly. They claim to be the most prestigious, semi-imaginary ham radio and kite flying organization in the world. Their motto is "We despise political rectitude, we intend to offend and we discriminate indiscriminately". Memberships are rarely awarded and, even then only at the whim of the GEARVAKf Trusteeship Council. Memberships are *never* awarded for meritorious activities and are not granted to highly qualified individuals. They publish a newsletter once annually, and have their own "semi-imaginary flea market" in the form of a booth at the Dayton Hamvention. The following is reprinted from the 2001 issue.

TWO- METERS IN DANGER AGAIN

Scientists at the International Academy of Amateur Radio in Blue Bank, Sunderland, held a sudden news conference recently to reveal the results of a study which shows that the amateur radio 2-meter band is once again on the verge of a violent explosion.

The first 2-meter explosion occurred in 1984, and nearly wiped out all VHF communications for more than a year.

The impending catastrophe was announced by Dr. Flaubert L'Spigot, Academy president. "Eet eez a beeg dangair zat zee two meetair band weel blowing up in zee face of zose who using eet" said Dr. L'Spigot. The good doctor's remarks were interpreted for the press by the Academy's press secretary, Ms. Pamela Sue Teton. "What Dr. L'Spigot said was that the two-meter band might blow up soon" said Ms. Teton. When asked what Dr. L'Spigot meant by his statement, Ms. Teton explained, "I have absolutely no idea."

GEARVAKf bulletin reporter Norbert Pwelitzr, who attended the news conference, concluded from the interview that there is a possibility that the 2-meter band may explode again soon. Only those who know some kind of foreign language would know what Dr. L'Spigot actually said.

HINTS & KINKS

1. Don't use a hammer to drive screws.
2. Do not attempt to use hair dryers while sleeping or taking a shower .
3. Do not use high powered lasers in a tile bathroom, or aim them at mirrors.
4. Do not eat or drink unknown substances at hamfests.
5. Beware of persons without a callsign hat or name-tag at a hamfest.

President Bush Addresses Florida ARES Net

President George W. Bush spoke January 31 via Amateur Radio to members of the Northern Florida Amateur Radio Emergency Service Net (NFAN). The president was in Florida to spotlight five volunteer groups--among them the Volusia County Amateur Radio Emergency Service (ARES)--for their value to the new Office of Homeland Security.

"I want to thank all the volunteers who help make sure that Florida is prepared for any kind of emergency," the president said in part, after checking in around 9:15 AM to a regular ARES net session. "I

want to thank you all for helping your communities be prepared." Bush spoke on the net for about 30 seconds.

Northern Florida ARRL Section Manager Rudy Hubbard, WA4PUP, said Bush spoke from a portable station set up at a Daytona Beach fire station. At the request of ARES Volusia County Emergency Coordinator Joette Barnett, KG4HPN, John Schmidt, AF4PU, and Clifford Fraser, KE4HIY, arranged to have the station ready as a demonstration of Amateur Radio's role in emergency preparedness and in the hope that Bush would be willing to address the 75-meter net.

ARRL President Jim Haynie, W5JBP, said he was "extremely gratified" that President Bush recognized the valuable service Amateur Radio operators provide in times of emergencies. "I know that all hams in >the United States stand ready to do their part in America's Homeland Security Program," Haynie commented. Haynie has said that defining Amateur Radio's role in homeland security would top his list of initiatives for his second term.

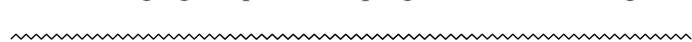
Hubbard said a copy of proposed expanded Amateur Radio (PRB-1) antenna legislation was given to the President and to the president's brother, Florida Gov Jeb Bush, for possible introduction in next year's Florida legislative session. "We Amateur Radio operators will volunteer however we're needed, and maybe it will be seen that we can greatly help the nation if we have the antennas we need," Hubbard commented. The proposed bill would seek to extend Florida's PRB-1 law to include private deed covenants, conditions >and restrictions.

Reprinted from the ARRL Bulletin

As you may or may not know, our Vice President, Gary Dewey NI8Z, is also the program coordinator and committee chairman for providing us with interesting programs at our meetings. This is quite a task however and Gary could use the help of all of us to come up with ideas for programs that are amateur radio related and of interest to the general membership.

Put your "idea caps" on and try to come up with some ideas that you can pass on to Gary. Our programs can be about anything Ham related. Maybe you recently purchased a new rig. Tell us about it. Give us a demonstration of a particular mode of communications you are interested in. Maybe you know someone who you think would come to talk to us about a particular subject that would be of interest to us all. Perhaps a display of your qsl cards you have collected over the years and some of the interesting stories behind them as well as some tips on qsl'ing.

The subjects for a program are limitless! Just use your imaginations! Present the idea to Gary and perhaps assist him in bringing the particular program to our meeting.



Trivia Quiz

1. When did the FCC stop giving exams and pass this duty to the VEC program?
 - A. 1982
 - B. 1984
 - C. 1988
 - D. 1990
2. Which newscaster is a licensed Ham?
 - A. Ted Koppel
 - B. Peter Jennings
 - C. David Brinkley
 - D. Dan Rather
3. Which amateur band is "open" (usable for ionospheric propagation) to SOMEWHERE more of the time than any other band?
 - A. 160 meters
 - B. 40 meters
 - C. 20 meters
 - D. 17 meters
4. Which coax has the lowest loss?
 - A. RG-58
 - B. RG-8X
 - C. RG-8U
 - D. 9913

Answers to this quiz are at the bottom of page 7.

Time to send in your dues! It's time to get our dues in folks. The club depends on our membership dues to be able to operate. It costs money to keep the repeaters on the air, and for postage and other operating expenses. Support your club!

2002 C.A.R.S. DAYTON BUS TRIP

MAY 18, 2002

The Dayton Bus Trip for the year 2002 is a go! Sponsored by the Cuyahoga Amateur Radio Society, the bus will leave from the Brecksville Road Transit Co, located at 7885 Snowville Road & Brecksville Road, at 2:00 am on the morning of May the 18th, 2002. Cost of the trip will be \$30.00 per seat on a bus that will seat 47 riders complete with comfortable seats, rest facilities and last but not least its own driver! That's right, you wont have to make that 4 hour ride on your own, you can sit back, relax, and leave the driving to us.

This trip is open to all, not just members of C.A.R.S. you don't even need to be a HAM, all you need is a desire to have fun. While in route, some of the riders will sleep, some will talk about last year's trip down to Dayton, and for some this will be their first time down to Dayton. Which ever category you fall into, it is the only way to go down to the Hamvention.

We will stop at Denny's for breakfast on the way down to Dayton so bring your appetite. After breakfast its back on the bus and off to the Hamvention we'll go. The bus driver will drop us off at the door to the Hara Arena and the rest of the day is yours. Wear comfortable shoes, because you will be doing a lot of walking, there are so many things to see and do there wont be much time to sit. But if you do need to sit there are plenty of places to take a rest. If you like you can stop back at the bus to put anything you might have bought on the bus so you wont have to lug it around with you all day. Don't worry the bus driver stays with the bus all day long under the trees, so feel free to return to the bus for a rest or just to stow all your gear.

You will need to get your own ticket into the Hamvention the cost is \$17.00 in advance or \$22.00 at the door.

We will leave the Hamvention late in the afternoon on Saturday the 18th and will drive for a short time then we will stop for dinner at a McDonalds or Wendy's, then back on the bus for the trip home! All will be talking of the great deals that they made and that one piece of merchandise that they went back for but was gone.

Make your check out for \$30.00, payable to C.A.R.S. and send to:

C.A.R.S.
PO BOX 31264
Independence, Ohio 44131

Hope to see you on the bus, you can call me at 330-225-6917 with questions or you can e-mail me at kc8iou@cars.org or kolusgt@yahoo.com

73'
Gordon Kulus KC8IOU