



www.cars.org

Vol. XXIII, No. 3

March 2001

HZWORX DEVELOPERS TO TALK AT MARCH MEETING

Trying to remember where all the nets, code sessions, bulletins, emergency communication frequencies and special events are located can be a mind-boggling task - even for the most experienced amateur radio operator. Overlooking these events, when they are operated only a few hundred Hertz from where you are calling CQ, is likely to land you in trouble. Till now...

Glenn Shore KG8MR and Jay Patel, both of Xyconx, Inc. (said Zie Connects) will be talking to amateur radio operators in NE Ohio at the March CARS meeting about an exciting new program called HzWORX (said H Z works). HzWORX is a radio "Advisor program" that keeps you well informed of all the Nets, Bulletins, Special Event Stations, Emergency Frequencies and Beacon activities when and where you operate.

Whether you want to remember events so that you can work them, or just avoid potential on-air conflicts. The HzWORX Advisor is one of the most advanced features of this NEW amateur radio application for Win' 95/98, or NT platforms.

The Advisor's search engine and database organize hundreds of time-dependent and frequency-dependent events and then selectively displays them at the proper times. It displays all events with colorful markers, complete with event details shown in a data tables. Events like SES's, beacons, repeaters, emergency comm. frequencies, short wave broadcasts and more. You can be advised of events up to 12 hours in advance. Click on a event marker, and your radio will instantly change to the proper frequency and mode.

Another click and you are logged on to the Internet, reading about that net or event's organization. Come to the CARS meeting and learn more about HzWORX's many features such as its animated DX beacon display, editable advisor data base, internet savvy log book, and special utilities to help you get the most of your limited time at the radio.

Remember the next meeting is March 21. If you want to check out HzWORX before the meeting go to www.xyconx.com. See you there

COMMUNICATIONS VOLUNTEERS NEEDED FOR THE WALKAMERICA 2001

The March of Dimes will be holding it's annual WalkAmerica on Saturday, April 28, please note that this event is the day before the CVS Marathon. This is a walking event held in Downtown Cleveland to raise money for healthier babies. There will be approximately 7,000 people walking the three mile route through Downtown Cleveland and the Flats.

Communications is required at all rest stops, start/finish and various other critical points along the route. The volunteers are needed from 7:45 a.m. until approximately 1 p.m. A total of approximately 16 volunteers is needed. This is a fun event where the volunteers are very appreciated and treated well. You will give you a t-shirt, lunch, and more importantly, you'll be helping the March of Dimes to save babies. If you're available to help out *please* contact TJ Powell (N8UIR) by email at tjp@tjp.com or at 330-468-1984. We can use all the help we can get.

The Wobbly Oscillator is a monthly publication of The Cuyahoga Amateur Radio Society. Articles may be reprinted in any amateur radio-related publication provided that credit is given to the newsletter and the author.

Submissions received by the end of the month will be published in the following month's *Wobbly Oscillator*.

Send articles by E-mail to: Newsletter@cars.org or by U.S. mail to: The Wobbly Oscillator, 3028 Southern Road, Richfield OH 44286

(Do not send dues to this address!)

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FROM THE PREZ'S SHACK

We had a good meeting and accomplished a lot at our February 21 meeting. Our program director, Gary Dewey N18Z, put on an excellent live demonstration and discussion reviewing most of the new digital modes we are all hearing about.

The changes to the CARS Constitution and By-laws which were presented at the January 17 meeting were all passed with only a few wording changes, the intent remained the same. The revised by-laws and constitution will be on the Web site ASAP. Remember the dues are now \$20 per year a \$2 increase.

CARS has been issued a second call NO8A to be used at special events, NO8A has extra class privileges, our K8ZFR call is under a General class license. K8ZFR will remain the primary call for CARS and of course will continue to be used for our repeaters. Some clubs have five to six calls with two being very common.

Our refreshment & 50/50 chairman, Dave Morley W8IXY, baked some good cupcakes for refreshments that all seemed to enjoy. Our 50/50 winner Steve Riley N8IS took home \$14 as his share.

Our Hamfest chairman, Rich James N8FIL, was not able to make the committee meeting as called, but some discussion was had and several decisions have been made, plans seem to be going well.

We still have not settled on a site for Field Day but will most likely it will be at the VFW site in Northfield where we hold our Christmas party. Remember to participate please call Tom Wayne WB8N or Dave Morley W8IXY to tell them what you can do, what you can bring, when you can be there etc.

As you know CARS has a bus going to the Dayton Hamvention, contact Gordon KC8IOU for details and to reserve a seat, the money must be in on or before April 15.

We now have a key to the radio room at the Wade Park VA hospital, also the VA has ordered a new computer, the VA will be having some antenna work completed soon and order some new gear to update this Ham station. If you have volunteered or want too help in an emergency at the VA station please contact Gary N18Z to get registered as a VA Volunteer and get your parking pass and badge.

The ARRL has raised the dues by \$5 per year effective July 1, 2001. You can save money by renewing your ARRL dues for up to five years anytime before July 1. Please renew or join through CARS, contact Judy Crane KC8FHE ASAP, help CARS and save yourself up to \$25.

Anyone wanting a mouse pad with the CARS logo, as seen at the February meeting, please contact me so I can send one order, they are only \$7 each and can be personalized with your call, these sell for \$10 each at any Hamfest.

That's all till next month, remember; Enhance your membership, please attend CARS meetings!

73, Bob, W8GC

DAYTON BUS TRIP

Gordon Kulus KC8IOU

As we all know C.A.R.S. is sponsoring the 2001 bus trip to Dayton on May 19.

This year's Dayton bus trip will cost \$30 per rider (with a possible increase of five percent depending on fuel costs). We will meet at the Brecksville Road Transit located at 7885 Snowville Road and Brecksville Roads. We will depart at 2:30 a.m. We have enough room on the bus for about 42 riders.

So far I have 17 interested riders, and money from five of them. Come on gang, we need more riders on the bus from our club this year than we had last year.

Please respond by April 15 with your reservation! Please make your check payable to C.A.R.S. and send check to:

C.A.R.S.

PO BOX 31264

INDEPENDENCE, OHIO 44131

Hope to see you there, on the bus that is, so 73' for now and if you need to get in touch with me in person you can call me at 330-225-6917. But don't worry, it is a Cleveland line and will not be long distance.



ANNUAL SKYWARN TRAINING SESSION

The Lake Erie Amateur Radio Association holds an annual Skywarn Training session immediately following our March meeting. Our meetings are the last Tuesday of every month (excluding December) and include dinner at Dimitri's restaurant.

This year we are going to be "testing the waters" of Harry's Steak House, which is owned by the same person as Dimitri's. Our meeting times will not change. People showing up for dinner should be there at 6:30 p.m. to place an order in time. However, at this point in time I am not entirely sure if we'll be doing a buffet or dinner style (served).

I am writing to invite the entire CARS membership to attend this meeting in Independence, Ohio on March 27, 2001.

I am under the impression that Skywarn training sessions will be limited this year and CARS may or may not be able to get the NWS staff to attend one of their meetings. Therefore, if any of your membership is interested in attending our meeting, we'd like them to know that all of our meetings are open to the public.

Anyone interested in attending just needs to make dinner reservations with Marv Grossman at 440-942-0154.

Harry's Steak House is on State Route 21 just north of I480 in Independence, Ohio.

A dinner menu is still in the works, but I expect it to offer a chicken, steak, and veggie option.

If you need to get in touch with me for details either write me back or leave me a message on my voicemail 216-552-4368

Jeff Garvas, N8YNR

Trustee & Secretary

Lake Erie Amateur Radio Association

MEETING MINUTES

Steve Riley, N8IS Secretary

February 21, 2001 Minutes

The President Bob Check W8GC called the February 2001 C.A.R.S. meeting to order at 8:00 p.m. EST. We had 18 members and 4 guests in attendance.

MINUTES: Bob Check (W8GC) ask for a motion to accept the minutes as listed in the January, 2000 WO, Duncan KC8KQO moved they be accepted, second Roy KB8VJF-passed.

TREASURER REPORT: Judy was not at the February meeting so no Treasure Report was available. The report will be published in the March WO. Bob W8GC ask for a motion to accept the treasure report as Published in the January, 2000 WO. Ron K8VJG moved to accept the report, second by Jerry N8AZY.

VE SESSIONS: Gary NI8Z reported the next VE session will be the Sunday March 11, 2001. Also congratulations to our newest VE Ron K8VJG. George K8KR our newest member has also volunteered to help. Cost is now \$10 for testing as of January 1, 2001.

MEMBERSHIP REPORT: Steve N8IS announced 1 new membership application: George Pindroh K8KR: The vote was unanimous in favor of our new George to C.A.R.S.

Field Day Report: Dave W8IXY discussed using the VFW Pavilion where the Christmas Party was held.

Hamfest Report: Roy KB8VJF had fliers printed up. The Nordonia High School is confirmed for this year, however next year Nordonia HS will not be available because of new construction.

REPEATER: Roy KB8VJF changed the codes on the controller at the 86 repeater, the 55 site has no UPS power back up. Bob W8GC asked what size we need as he may have one on hand, Roy said he also may have an extra UPS, one should put in as soon as possible. Pictures have been taken at the 82 site for inventory

SCHOOL EVENTS: Steve N8IS discussed School Events and has contacted the Independence Primary School about getting the Club and School involved in the ISS International Space Station and a club special event. *We need volunteers that have Satellite Communication Equipment or experience who would like to help some eager novices in that area.*

DAYTON BUS TRIP REPORT: Gordon Kolus KC8IOU announced that the bus trip is May 19, 2001 and the meeting place is 7885 Snowville Road and Brecksville Road. Departure time is 2:30 a.m. EST. Cost is only \$30 there maybe a 5% fuel charge. He would like to see the money in by April 15. The bus can carry up to 42 people and 15 seats have been taken. Send your reservation and money in as soon as possible or call 330-225-6917.

SUNSHINE CHAIRMAN: Aaron KC8INE sent cards out to Monica James, her father passed away and Bill Knoss. You can call Aaron at 440-526-9705 or e-mail Aaron at sunshine@cars.org

REFRESHMENT / RAFFLE: Dave W8IXY collected \$28.00 for the 50/50 raffle. The winning ticket was drawn by Rick Moran a guest and the winner of \$14.00 was Steve Riley

N8IS.

WEB SITE NEWS: GREG (KG8O)

No Report .

PROGRAM PRESENTATIONS: Gary NI8Z introduced HamScope a new mulity mode software program for PSK , CW, MFSK, RTTY, ASSCI-7 and 8.

NEW BUSINESS:

MS Walk-A-Thon is Sunday April 22, 2001 , the Goodyear Amature Radio would like to use our Repeater. Dave W8IXY moved that the club let GAR use the repeater, second Ron K8VJG-passed.

NEW CLUB CALL:

A second Club call has been issued for special events. Trustee is Bob W8GC and Bob has applied for a vanity call. The NO8A call will give the club Extra Class privileges w^cn being used at special events. Tom W8BN is the QSL manager for CARS, QSL cards will be made up and have both the K8ZFR and NO8A call signs for the club, probably the card will have Pictures of the CARS Trailer, Repeater towers, Etc.

CONSTITUTION AND BYLAWS:

Jerry N8AZY moved to accept the amended Constitution second Dave W8IXY. Gary NI8Z ask for any questions about the proposed changes to the Constitution, after discussion the motion was passed with a unanimous vote Ron K8VJG moved to accept the amended By-laws second by Duncan KC8KQO . After discussion of the proposed changes to the By-laws it was passed with majority vote, 1 opposed. George K8KR informed us that on 3.390 mhz there are strong signals coming from the western pacific ocean area that can not be identified, some think it may be China or Russia.

OLD BUSINESS:

There is a new contact at the VA hospital his name is Lovell Henderson, Marcey Clark is no longer there. Mr. Henderson wants the Wade Park station undated and reliable. Lovell will have volunteer ID badges and parking stickers issued, best time is Wednesday. The key for the radio room will be in our possession by next week. Please contact Gary NI8Z to get your ID badges issued.

ADJOURNMENT: Roy KB8VJG moved to close the meeting, second TomWB8N, the meeting was adjourned at 9:05 p.m. EST.

TREASURER'S REPORT

Judy Crane, KC8FHE

**This information is only distributed
to C.A.R.S. members only.**

PLEASE SEND DUES TO:

C.A.R.S.

P.O. Box 31264

Independence, OH 44131-0264

THE RANDOM WIRE

by Tom Wayne, WB8N

Hamfest Time

It is hamfest time in Northeastern Ohio once again, and I have been getting to my share of them. The first one of the year for me, was the Mansfield Hamfest, which is normally a pretty good one. This year was no exception. There were quite a few C.A.R.S. members attending this year as well. I counted ten and there may well be one or two I missed. I managed to spend a little money there as well, getting equipment together for my portable HF station. More about this later.

The next week was the Cuyahoga Falls Hamfest, which was improved from the past couple of years. Attendance seemed to be up, and there seemed to be more vendors as well. I picked up a couple of items at that one as well.

The next one I am aware of that is fairly close by is the Madison/Lake County Fest coming up at the end of the month. There is a hamfest in Toledo this month as well but I don't think I am going to be able to make that one.

One of the reasons for my attending so many of these hamfests, is to pass out fliers advertising the tenth annual C.A.R.S. hamfest, which again be on Father's Day. We have also been handing out cards announcing our hamfest to the dealers and vendors at the shows, in hopes of attracting them to our hamfest.

As most of you are aware, we almost lost our collective butts at last years C.A.R.S Hamfest, since it poured all day long, and we had to invite the vendors that would have been in the outdoors flea market indoors. As it all worked out, we actually made a few bucks, in spite of Mother Nature not cooperating with us. Let's keep our fingers crossed for this year to be a bright sun-shiney day.

We have received confirmation that we again we be using the Nordonia High School for the hamfest as we have the past several years. This will be the last year for holding it there for a while however, as construction will begin on an addition to the school soon after our hamfest, and we have been informed that for at least next year, we will have to find another location. Any suggestions as to a good location?

Weekly Club Net

No, I did not spell it incorrectly. The club net is held every Wednesday evening at seven o'clock, with the exception of meeting nights. As of late, participation in the net has been a little on the "weak" side. I know, it isn't easy to remember to check in to the net every week, but once or twice a month would be nice. The last week of February I was net control and we only had 11 check-ins, counting myself! That is not too good fellow C.A.R.S. members. Try to remember to check in next week (the Wednesday after club meeting). Mark it on your calendar, tie a string on your finger, or whatever it may take to remind yourself to check in. You could just get credit for participating in a club function, which could make you a voting member, if you are not able to attend meetings on a regular basis. Keep it in mind please.

DX-Pedition

As I mentioned earlier, I am in the process of putting together

a portable HF station. I want one that is compact and light weight, so that I can take it when I travel. So far I have the radio, a power supply, and a keyer, all of which weights under fifteen pounds. I am still in need of devising or purchasing a portable HF antenna that can be set up under varying circumstances and locations.

I intend to be going to the Bahamas on a week long vacation in the not-too-distant future and have applied for a temporary operating license from that country. If it comes before I intend to travel, I will be taking along my HF station and plan to be operating as a mini DX-pedition from the island of Nassau in the Bahamas. I will let those that are interested know when I will be traveling and when I plan to be on the air and on what frequencies, if and when I get my license to operate as C6/WB8N.

It will be a different experience to be on the other end of a pile-up for a change. Wonder if I can talk my wife into doing the logging for me? Silly me...what came over me there?! When I am on the air, she will either be basking in the sun at the pool or in a casino cashing in on those one-arm-bandits.

Speaking of money, I am open to donations in the form of cash or equipment to finance this DX-pedition, so if anyone is so inclined....Wonder if Yaesu,, Icom, Kenwood, Alinco, Ten-Tec, or any of the other biggies will see this in time to come through for me. I'll even accept a donation from Radio Shack! Only kidding folks.

On That Note...

I will say 73 once again and send this off to our newsletter editor. Catch you on the air or at the meeting, which ever comes first.

VE INFORMATION

Gary, NI8Z

The C.A.R.S. VE team is set and ready to start offering sessions again at the Independence Town Hall, 6652 Brecksville Rd., Independence, OH.

All sessions will start at 9 a.m. The doors open up slightly before that time for everyone to get their FCC forms filled out. The cost of the testing has gone up. This year the cost for any FCC testing is \$10. That means that you can take any or all elements for the initial cost of \$10. A retest of an element will cost another \$10 fee.

The dates for the 2001 testing:

March 11

May 13

July 8

September 9

November 11

When you come to a C.A.R.S. VE session bring the original plus a copy of your license and valid Certificate of Successful Completion of Examination (CSCE); a picture ID card; two pencils with erasers, a ballpoint or ink pen; and of course your money either in check form made out to "ARRL/VEC" or cash.

The C.A.R.S. VE testing location is handicap accessible. But anyone needing special attention or has a special requirement, please call 216-642-1399 at least two weeks prior to the testing date given above.

Tom Wayne

Reprinted with permission from the GEARVAKf (the f is silent) Bulletin (Greater Enon AmateuRadio VentionAnd Kitefly).

ORAL FACTORS IN LONG DISTANCE COMMUNICATIONS

by Dr Uvula T. Pushka,
Scholar-in-Residence, GEARVACf Institute
for AdvancedWireless Engineering.

The following is Dr. Pushka's presentation given at the annual meeting of the Society of Radio Engineering Associated Speech Seminar (SOREASS), at the annual GEARVACf Amateur RadioVention and Kite Fly in 1955 Due to the fact that the septic tank was operating only on a marginal basis, and the luncheon featured Dr. Felix R. Onehundredton's super Tex-Mex chili, many did not have the opportunity to hear Dr. Pushka's remarks at that time.

...Ed.

"Why do some amateurs consistently work more DX than others despite having low power, inferior antennas, and less-than-ideal locations? To try and determine the answer, I traveled several thousand miles to the hamshack of Simeon Shuff, B12GVD, DX champion of the tiny nation of Boscovia, and one of the highest DXCC scorers, despite that country's legal limitation of 5 watts of power and antenna lengths of 36 inches. When Pushka came to Shuff, I found him operating his homebrew 5 watt transceiver, talking to the West Coast of the U.S. at 2:00 in the afternoon on 160 meters. I asked him the secret of his success and he demonstrated by calling a simple CQ, first in a normal voice. In this case, there were no responses to his call. Then he called CQ again. This time there was a pileup on the frequency with at least 15 callsigns identified from all over the world. Why? What was different? Shuff credits the difference and his resulting soaring DXCC scores, to the singer Michael Jackson. Shuff used to watch Jackson perform on TV, especially when the popular star, while dancing, would grab his crotch and squeeze, raising his voice several octaves. You may have noticed Jackson's voice during his interview with Barbara Walters, although the camera never wandered below Mr. Jackson's shoulders. It seemed the more Jackson squeezed, the more successful he became. Shuff wondered why this principal couldn't be adapted to ham radio. He determined that this same technique would limit the vocal frequencies to the ideal SSB range for maximum power and interference rejection. Indeed, adjusting the squeeze in various ways, Shuff was soon able to control his voice, eliminating unnecessary oral frequencies and overtones, effectively increasing his communication ranges by thousands of miles. He says he now spends much more time involved with ham radio than he used to, and he is enjoying it more. However, it is recommended that this technique be used in one's own shack, with the door closed, as it may be frowned upon during Field Day, parades, mobile operation next to passenger busses, and near elementary schools"

...N8JR

The February NOARS Log is available at <http://www.apk.net/noars/feb01.pdf>. Get a copy when the time is best at your computer. The Monday March 19th Lorain County Skywarn training program by NWS is NOARS March Program and begins at 7 PM, lets show good attendance, this information is priceless whether you are on land or water. NOARS was asked to have this at our spacious meeting location, this is the only session for the county this year.

SILENT KEY

Bill Knaus, WA8NPX

Our friend Bill Knaus, WA8NPX, became a silent key overnight; overtaken quickly by cancer. He was not currently a member of CARS, but many know Mr. Nippx through other organizations such as the W8BAA station at the Brecksville VA Hospital, Chippewa ARC and QCWA. Bill was the inspiration that led to my involvement in satellites and Field Day in my back yard. He is going to be missed greatly.

73 my friend.

Roy Hadden, KB8VJF

UNCLASSIFIED

For Sale: 1-2 meter FM transceiver "realistic" ht.; model # htx-202 (made by ICOM); 1-call channel memory; 3-priority channel memories(scanning); 12-channel memories(scanning); low/high power(1/ 6 watt) 13.8 VDC ; sub audible tone transmit & decode(CTCSS)(PL); touch tone page; programmable power saver; 16-digit DTMF output(to access auto patches); (5)DTMF memory sequences(store 15 digits); multi-function scanning; programmable frequency step; 13.8vdc input jack; ; includes: alkaline/ni-cad (6) "AA" battery case & remote speaker/mike. &; paper work & rubber duck ant. \$60 works, good condition. KC8IVD@juno.com [Steve M Hnatiak]

For Sale: 1-2 meter FM transceiver "ICOM ht; model #IC-2AT; low/high power(2.5 watt); includes: "no battery" (uses same battery pack type as the HTX-202) has; adapter for 13,8 VDC input & paper work &rubber duck ant. Make offer, works but in rough condition. KC8IVD@juno.com [Steve M Hnatiak]



Tenth Annual

Father's Day

Sunday
June 17, 2001
 8:00 AM to 1:00 PM
Vendor set-up starts at 6:00 AM.

Nordonia High School
 8006 South Bedford Road
 Macedonia, Ohio

Near Route I-271 Exit 18
 Between Cleveland and Akron



**Hamfest,
 Computer Show
 and Electronics
 Flea Market**

Tickets are \$4.00 advance,
 \$5.00 at the door.

PRIZES PRIZES PRIZES PRIZES PRIZES PRIZES

Grand Prize
 \$400 Gift Certificate

Check-in Prize
 Drawing at 11:30

Door Prizes

Drawings at 10:00, 11:00 and 12:00

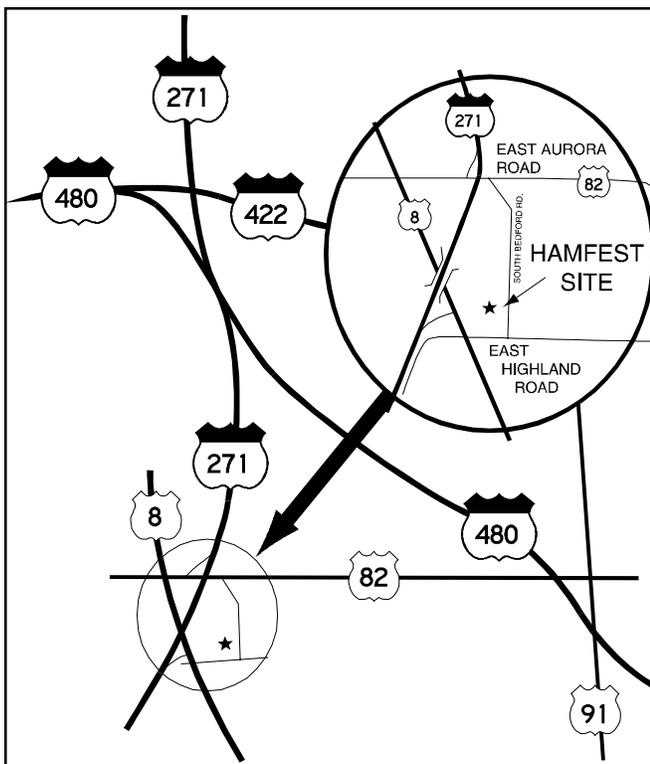
Ham Raffle

Drawing at 12:30

Certificate for a Honey-Baked Ham

Talk-in 146.82(-) Repeater

Winner need not be present for Grand Prize Drawing



**Information
 and
 Indoor or Outdoor
 Vendor Space Reservations**

Indoor vendors registered by March 31
 receive their first table and admission free.

Call or FAX

Rich James, N8FIL
 330-468-6021

Send U.S. Mail

Cuyahoga Amateur Radio Society
 PMB 133
 526 W. Aurora Rd.
 Sagamore Hills, OH 44067

Send E-mail

Hamfest@cars.org

C.A.R.S. WWW Home Page

<http://www.cars.org>

UPCOMING EVENTS

Cars Meeting and Programs:
 Wednesday, March 21, 2001
 Wednesday, April 21, 2001

8:00 p.m.

Busch Community Room, 7501 Ridge Road
 (south of Pleasant Valley) Parma, Ohio

CARS VE session:
 March 11

9:00 a.m.

Independence Town Hall, 6652 Brecksville Road

HamVention:
 Saturday, May 19, 2001

Depart 2:30 a.m.
 from 7885 Snowville Rd.

Dayton, Ohio

EXECUTIVE BOARD

OFFICERS

PRESIDENT:

Bob Check - W8GC
 President@cars.org

VICE-PRESIDENT:

Gary Dewey - NI8Z
 216-642-1399 or VicePresident@cars.org

SECRETARY:

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

TREASURER:

Judy Crane - KC8FHE
 216-524-1537 or Treasurer@cars.org

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ODD YEAR EXPIRATION

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 330-225-6917 or KC8IOU@cars.org
Terry Pillatt - KB8DTC
 330-273-1043 or KB8DTC@cars.org

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Bill Koenig - AA8WJ
Ron Borkey - K8VJG
 440-237-6718

LICENSE TRUSTEE

Monica James - N8HTX
 330-468-2035 or Trustee@cars.org

Send E-mail to all C.A.R.S. officers at
 Officers@cars.org

STANDING COMMITTEES

** denotes chairman*

AMERICAN RED CROSS DISASTER LIAISON

Ev Chitester* - WA8EYF
 216-581-3657

COMMUNICATIONS TRAILER

Rich James* - N8FIL
 330-468-2035

COMMUNITY EDUCATION & SCHOOL PROGRAM

Dave Dressler* - KD8V
 330-666-8721

Tom Wayne - WB8N
 440-232-4193

Paul Valley - KC8AMD
 440-237-8116

Steve Riley - KC8GCA
 216-328-9276

Ron Borkey - K8VJG
 440-237-6718

DAYTON BUS

Gordon Kulus* - KC8IOU
 330-225-6917

DIGIPEATER

Tom Wayne* - WB8N
 440-232-4193

FIELD DAY

Tom Wayne co* - WB8N
 440-232-4193

Dave Morley co* - W8IXY
 440-884-0650

Mike Thomas - KB8BMY
Aaron Clark - KC8INE
 440-526-9705

HAMFEST

Rich James* - N8FIL
 330-468-6021

JAMBOREE ON THE AIR

Roy Hadden* - KB8VJF
 330-468-3020

Paul Valley - KC8AMD
 440-237-8116

MEMBERSHIP

Steve Riley* - N8IS (ex KC8GCA)

NET

Phyllis Collins* - KC8DVL
 216-883-3718

WO/NEWSLETTER

Russ Schneck - KC8IHS
Monica Schneck - KC8IYM
 330-659-3889

PROGRAM DIRECTOR & ELMER PROGRAM

Gary Dewey* - NI8Z
 216-642-1399

CARS QSL MANAGER

Tom Wayne* - WB8N
 440-232-4193

REFRESHMENTS & 50/50 AT MEETINGS

Dave Morley* - W8IXY
 440-884-0650

REVUE CONSTITUTION & BY-LAWS

Gary Dewey* - NI8Z
 216-642-1399

Glen Shore - KG8MR
 330-425-9762

Ev Chitester - WA8EYF
 216-581-3657

Boehnlein - N8TCP
 440-843-6723

SUNSHINE (WELFARE)

Aaron Clark - KC8INE
 440-526-9705

TECHNICAL/VA HOSPITAL

Rich James* - N8FIL
 330-468-6021

Roy Hadden - KB8VJF
 330-468-3020

VE EXAMS

Gary Dewey* - NI8Z
 216-642-1399

WEB SITE/E-MAIL

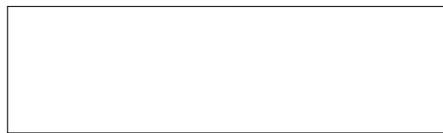
Greg Kopp* - KG8O
 216-577-1388

THE WOBBLY OSCILLATOR

March 2001

Club Frequencies

70cm repeaters	443.825 MHz	Input 448.825 MHz PL 131.8 Hz
	444.750 MHz	Input 449.750 MHz PL 131.8 Hz
2m repeater	146.820 MHz	Input 146.220 MHz PL 110.9 Hz
2m simplex	146.475 MHz	
2m digipeater	145.070 MHz	Node CARS or K8ZFR
6m repeaters	53.010 MHz	Input 52.010 MHz PL 136.5 Hz
	53.830 MHz	Input 52.830 MHz PL 107.2 Hz
Internet	http://www.cars.org	



**TIME TO RENEW YOUR MEMBERSHIP?
CHECK THE EXPIRATION DATE ON YOUR
ADDRESS LABEL.**

The Wobbly Oscillator
P.O. Box 31264
Independence, OH 44131-0264

