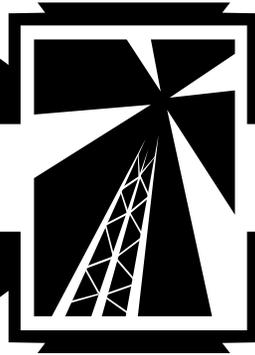


THE WOBBLY OSCILLATOR



MEETING MINUTES

Ray Severyn, WD8OMK

Minutes of the regular Club meeting held on November 17, 1999, at the Busch Community Room as recorded by Ray WD8OMK.

The November CARS meeting was called to order by Tom Wayne WB8N at 8:03 p.m. Members in attendance included Bob W8GC, Steve KC8GCA, Len W8MCD, Gordon KC8IOU, Lin WD8SDP, Roy KB8VJF, Terry KB8DTC, Jim KB8SQF, Judy KC8FHE, Duncan KC8KQO, David KC8FVM, Phyllis KC8DVL, Bill AA8WJ, Ron K8VJG, Richard N8FIL, Glenn WB8CDA, Monica

N8HTX, Glenn KG8MR, Roger N8TCP, Dave KD8V, Steve KC8IVD, Mike KB8BMY, Nick WA8LOB, Bob KC8MRC, Karl KC8LYH, Gedeas KC8IUM, Gary NI8Z, Tom WB8N, Aaron KC8INE, and Ray WD8OMK.

The list of guests, visitors, and family members included Pam Paschke, Ed Stohrer WB2TDC, Paul Valley KC8AMD, and Pat Dressler.

CHANGES TO THE MINUTES

There were no changes to the minutes.

CHANGES TO THE TREASURER REPORT

There were no changes to the treasurer report.

OLD BUSINESS

Steve KC8IVD informed the group that an orientation meeting for the Great Lakes Search and Rescue organization will be held sometime in February at the Brecksville Library. He will let us know when the details are finalized.

NEW BUSINESS

Dave KC8FVM suggested that we could accept membership dues by credit

card in the future. However, since there is a \$4 charge per transaction, this suggested did not receive much support.

There was a lot of discussion tonight about Y2K preparedness for CARS. In the event of civil disruption, CARS may be called upon to aid in communications, possibly with regard to shelters and support of other civil organizations. Rich N8FIL suggested that we run a Y2K net on New Year's Eve. Phyllis KC8DVL said that she would act as net control. With regard to our repeaters, Rich N8FIL said that if any troubles were to crop up due to date problems on January 1st, he would reset the clock at the repeater back to an earlier date. We will invite other area Clubs to join in our Y2K net.

Elections were held this evening. For next year the officers will be Tom WB8N as President, Gary NI8Z as Vice-president, Judy KC8FHE as Treasurer, and Glenn KG8MR as Secretary. For the Board Member positions, Terry KB8DTC and Gordon KC8IOU were elected to regular two year terms.

Roy KB8VJF said that normally he publishes 11 W.O.'s per year. However, he would be glad to publish a 12th issue this year if he gets enough articles sent to him to warrant an extra issue.

COMMITTEE REPORTS: MEMBERSHIP

The applicants that appeared previously in the W.O. were voted on and accepted as a group. This includes Charles Matthes W8QXA, Larry Deitcher KB9KSR, and Jerry Sanicky N8AZY.

HOLIDAY PARTY

The Holiday Party will be on Saturday, December 11th, at the VFW Hall in Northfield Center.

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EXECUTIVE BOARD

OFFICERS

President

Tom Wayne, WB8N
440-232-4193
President@cars.org

Vice-President

Gary Dewey, NI8Z
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VicePresident@cars.org

Secretary

Glen Shore, KG8MR
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Secretary@cars.org

Treasurer

Judy Crane, KC8FHE
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Treasurer@cars.org

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Odd Year Expiration

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KC8IOU@cars.org

Terry Pillatt, KB8DTC
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Even Year Expiration

Roy Hadden, KB8VJF
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KC8DVL@cars.org

License Trustee

Greg Kopp, KG8O
216-577-1388
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Send E-mail to all C.A.R.S. officers at
Officers@cars.org

COMMITTEES

ARC Disaster Liaison

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216-581-3657
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Rich James, N8FIL
330-468-2035
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Digipeater

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Field Day

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Jamboree On The Air

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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
1176 Saybrook Drive
Macedonia, OH 44056-2407

K8ZFR



PUBLIC SERVICE

Tom WB8N received a letter from Pacific Sports thanking us for the use of our repeater during the Tow Path Marathon. Communications for this event were coordinated by LEARA.

TECHNICAL/REPEATER

N8FIL reported that we will be receiving new gear for the 53.01 machine so this repeater should be back on the air in the near future. Also, a new backup power supply will be installed in the 82 repeater. There was some discussion at the meeting about the potential for interference to our 6 meter repeaters as HDTV is implemented in our area.

COMM-TRAILER

Rich N8FIL recommended to the Club that we purchase new axles for the trailer at a cost of \$500-\$550. This expenditure was approved by the Executive Board. The purchase should lower the trailer enough to fit into Rich's garage since it will reduce the trailer height by 10 inches. The total trailer weight is 3200 lbs and each of the two new axles is rated at 3500 lbs so the trailer will have plenty of capacity.

FIELD DAY

Gary NI8Z reported on Field Day results. Our Club station scored 24th out of 90, 5-alpha stations across the country. In Ohio, we were second in the state for our category; first in Ohio was the Cuyahoga Falls Amateur Radio Club.

HAMFEST

Rich N8FIL gave an update on the CARS Hamfest for next June. He would like steps to be taken for more inside vendors this year. As an incentive for vendors to register early, Rich suggested that we give inside vendors one free table by registering before the end of March. Rich hopes to send out flyers to the local vendors sometime in December. The hamfest will still be on Father's Day and all mail correspondence will be directed through Rich's P.O. Box.

VE REPORT

Gary NI8Z reported that CARS held six VE session in 1999. Also, six VE sessions have been scheduled for next year on the 2nd Sunday of each odd month at the Old Town Hall in Independence.

ADJOURNMENT

The meeting was adjourned at 8:55 p.m.



TREASURER'S REPORT

Judy Crane, KC8FHE

It has been an interesting year for me. This year I have **altered the Membership Database into two different databases**. One is for **Current members** and the other for **Former Members**. If anyone does not appear in either of these databases, they have been a non-member for over a year.

There has been confusion about membership in general, so I would like to present you with the bylaws, which are posted on the Web Page.

Article II – Membership

Section 1: Applications for membership shall be submitted in writing at a Regular Meeting and voted on at that meeting, provided all members have been notified in writing prior to the vote meeting (**this is where being published in the WO come in**) The application shall be accompanied by a full years advance dues payment. (**\$18 for regular single membership, \$23 for family of 2 membership**) A one time initiation fee of five dollars (\$5.00) shall also accompany the application. Acceptance shall be by a two-thirds vote of the Full Members present at the vote meeting.

Section 2: Full Member:

(a) 1. An individual elected to membership who holds a valid amateur radio license, has currently met obligations regarding dues and assessments, and has attended at least one of the previous three(3) regular meetings as a club member.

2. A person qualified to be a Full Member, but who cannot attend the vote meeting, may submit an absentee ballot in lieu of the requirement to attend the meeting at which a vote is taken.

(b) An individual who is in the immediate family of, and resides at the same address at a Full Member and meets the same requirements as outlined in paragraphs (a) 1., and (a) 2 above, shall be eligible to be a Full Members at 25 % of the established dues for a Full Members, but will not receive a separate newsletter. **\$23 for family of 2 membership**

Section 3: Inactive members: A person who has been elected to membership and does not currently meet the requirements for Full Membership.

Section 4: Auxiliary Member: Any interested party who does not meet the requirements for a Full or Inactive membership or who lives outside seventy-five (75) miles of Cuyahoga County, Ohio.

Section 5: Honorary Member: The title of Honorary Member may, by a motion of and a vote of two-thirds (2/3) of the Full Members present, be bestowed upon any person who

Nature of outstanding or meritorious contribution to the furtherance of amateur radio and the ideals of the Cuyahoga Amateur Radio Society, is deemed to be deserving of such title. Such term of membership shall be for a period of one (1) year and shall carry all privileges of membership, except the right to vote.

Section 6: REINSTATEMENT

(a) A former member will be automatically reinstated into the Club within a twelve-month period, provided all dues and assessments for the twelve (12) month period are paid in full.

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The Wobbly Oscillator On-line Version



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(b) A former member who re-applies for membership after the twelve (12) month period, must apply and fulfill the requirements of a new member as stated in Article II, Section 1 of these Bylaws. The initiation fee will not be required of the former member. **This part is hard to prove. Unless a person has shown up on the Old Members database I charge as a new member, since all the data is missing.**

Article III – Dues

(a) Dues of one dollar and fifty cents (1.50) per month shall be paid by all Full and Inactive Members, except as provided for in Article II, Section 2, paragraph(b).
1.50 * 12 = \$18.00

(b) Auxiliary Members shall pay dues equal to 25% of the dues paid by the Full and Inactive Members.

18 * .25 = 22.50 rounded to \$23.00 for Family membership

Section 2: Members three months behind in dues will be dropped from the Club roster. **I place them into the Old Members database so they can easily be retrieved.**

The software I use for finances is Money 99. I mention this incase any experts are out there and have productive suggestions on how to improve the Financial Reports.

I have attempted to contact members who are behind in their dues by phone and or email. I was publishing a list in the W.O. too. I guess some people want to see their names in print so I will continue this practice in 2000.

Sorry I did not make it to the Christmas Party but I just can't be in two places at the same time. Hope everyone had a good time. Perhaps I will be able to attend next year. I also hope everyone has a very Happy and Safe New Years.

The following members DUES are

CALL	NAME	RENEWAL
AA8JP	Ray Conelly	12/31/99
AA8MX	Steve Bellamy	12/31/99
K8BDB	Ed Kopp	8/31/99
K8MPL	Philip Ricca Jr.	12/31/99
K8RDK	Robert Knaack	12/31/99
KA8KPB	Blaine Coleman	12/31/99
KB8DUE	William Tarka Jr.	12/31/99
KB8FIH	Richard Dombrowski	12/31/99
KB8IUH	John Lane	12/31/99
KB8OJQ	Hilton Bradley Sr	12/31/99
KB8QHC	Robert Glover	12/31/99
KB8QJA	Pete Gerard	12/31/99
KB8WMY	Daniel Cottle	12/31/99
KB8WUB	Edward Wirsching	12/31/99
KB8YLX	Greg Edmond	12/31/99
KC8DXV	Duane Harrington	12/31/99
KC8IBT	Dale Valley	12/31/99
KC8IPQ	Bob Phillips	12/31/99
KC8IUJ	Richard Bongiovanni	12/31/99
KC8KQO	Duncan St. Ives	12/31/99
KV3M	Steve Nelson	12/31/99
N8BZC	Dave Chatham	12/31/99
N8DJC	Don Leyden Jr	12/31/99
N8GXR	James Glor	12/31/99
N8HVQ	Jack Andrisin	12/31/99
N8OVW	Vince Bak	12/31/99
N8RKA	Arthur Barbetta Jr	12/31/99
N8RRG	David Cottle	12/31/99
N8UIY	Virginia Braun	12/31/99
N8UPZ	William Downie	12/31/99
W8NOX	Keith Alexander	12/31/99
W8RJR	Milton Weiller	12/31/99
WA8EYF	Ev Chitester	12/31/99
WB8CDA	Glenn Fenzel	12/31/99
WB8ROK	Edward Stevens	12/31/99
WB8UES	Sam Jenkins	12/31/99
WD8SDP	Lin Shaw	12/31/99

PLEASE SEND DUES TO :

Judy Crane, KC8FHE Treasurer
6531 Tanglewood Lane
Seven Hills, OH 44131

P.S. Everyone please have a pleasant And save Holiday Season.

MEMBERS ONLY - This article has been edited for the on-line version of the newsletter. C.A.R.S. members may request the full version of the newsletter by sending a request to the editor.



MEMBERSHIP

David Morley, KC8FVM

Hello to Everyone I trust that you Had a pleasant Thanks giving holiday with your families just less than thirty days left till Christmas, and the new year lurking around the corner there after. So I would like to wish you and your family , a peaceful and joyous holiday season.

I would also like to announce The First applicant to C.A.R.S. the new year Ed Stohrer WB2TDC

We will be voting on him at the Jan 2k :) meeting. I would like to welcome into the club Jerry Sanicky N8AZY and Larry Dietcher KB9KSR We hope to see you soon at the meetings

DE KC8FVM

K8ZFR



VE NEWS

Gary Dewey, NI8Z

The test schedule for the year 2000 Volunteer Examinations have been scheduled. The location of all Amateur Radio Examinations will be 6652 Brecksville Rd, Independence at the Independence TownHall.

The examinations will be held on the Odd month, second Sunday at 9 am. The dates for you planning calendar ---

- January 9
- March 12
- May 14 (tentatively)
- July 9
- September 10
- November 12

The cost of taking the test will be \$6.65. Everyone taking a test for a new license or an upgrade must bring a valid picture I.D. The original and a copy of their license, any CSCEs are necessary.

Bring an ink pen to fill out the new 605 form plus 2 pencils with erasers for the written tests. Everyone fill out the new 605 form should have their social security number.

Contact NI8Z, Gary Dewey at 216-642-1399 or email to gdewey@en.com for further information and special request.



FROM THE PREZ'S SHACK

Tom Wayne, WB8N

The Random Wire HOLIDAY SPIRIT

Well, Thanksgiving is over, and we are quickly heading for Christmas. Seems the stores were putting out the holiday decorations before Halloween this year, but I have to admit that I had my outdoor lights on the house and bushes before Thanksgiving. I took advantage of the great weather we had, and one day, even wore shorts while I was up on a ladder

stringing lights along my roof-line. I was going to put lights up on my antenna tower as well, but thought that maybe that might call too much unwanted attention to the structure. I view it as a thing of beauty, but I know that others do not share my opinion, including my wife.

But now it is time to think about putting up the Christmas tree and decorating it. The club Holiday Party will probably be a thing of the past by the time you read this, so I hope that those that attended had a great time. To those members who did not attend, I know you missed a good meal and a fun time. Hope you can all make it next year!

ELECTION CONGRATS

Here's congratulations to the newly elected and re-elected officers of C.A.R.S. Gordon KC8IOU is a new board member, and Glenn KG8MR is our new secretary. Gary NI8Z Judy KC8FHE, Terry KC8DTC, and myself were re-elected to our current offices. I am looking forward to working with you all during the coming year.

THE YEAR 2000

We are working on some interesting programs at the meetings for the coming year. If any member has a suggestion for an up-coming meeting, please let me or Gary Dewey NI8Z know. Let's make the year 2000 an even better year than 1999.

We have the C.A.R.S. Fathers Day Hamfest coming in June, and it is not too soon to be working on that. Field Day follows in the same month, and we need to be making plans on that as well! Of course, we plan on having the bus to the Dayton Hamvention again, which is in May. Meetings in the park will again begin with the June meeting and continue thru the August meeting.

Membership in C.A.R.S. has been good over the past few years, but let's see if we can increase it. If you know of any hams that do not belong to C.A.R.S., encourage them to come to a meeting and join. Maybe bring them along with you as a guest and sort of twist their arm a little. Whatever works.

If you haven't been to a meeting or haven't been to one in a while, plan to attend one or more in the coming year. You will meet people you have only talked to on the radio, and who knows, you might have a good time. The coffee pot will be on.

EMERGENCY PREPAREDNESS

At the November meeting it was decided that on the stroke of midnight New Years, those members that can, will check into an informal net on 146.82, in case any of the problems that have been predicted come about. The main purpose of this net is to see who would be available to help provide emergency communications if needed.

Also, the Cleveland Chapter of the American Red Cross, has put out a request by e-mail to our membership, to volunteer to come to the chapter headquarters on New Years Eve and New Years Day, and spend a few hours standing by with hand-held radios in case of a Y2K emergency.

I suggest that even if you do not volunteer with the Red Cross, you keep your batteries charged just in case. Our motto is "Hams Who Serve" but we cannot serve without being able to communicate.

MERRY CHRISTMAS & HAPPY NEW YEAR

Here's wishing all of you and yours a very Merry Christmas and a great New Year.

Hope to see you at the January meeting and talk with you on the air.

73

de Tom, WB8N

K8ZFR



PROGRAMS FOR 2000

Gary Dewey, NI8Z

For C.A.R.S. members planning, the following meetings dates have been scheduled with programs listed below:

January 19th Bob Winston, the NorthEast Ohio Assistant Section Manager will discuss items of interest to all Amateurs. Bob covers the counties of Erie, Huron, Richland, Holmes, Stark, Columbiana, Mahoning, Trumbull, Ashtabula, Geauga, Portage, Lake, Wayne, Portage, Summit, Medina, Lorain, and Cuyahoga.

February 16th Tentative Traffic Handling Presentation

March 15th Weather Emergency Planning or G.P.S. update

April 19th Getting ready for Dayton, our HamFest and Field Day



MANSFIELD HAMFEST

Scott Yonally

Introducing a Hamfest for the New Millennium ...

Mansfield, Ohio Mid*Winter Hamfest & Computer Show...

Sunday - February 13, 2000. 7:00am - 3:00pm. Flea Market with over 400 tables in four (4) modern heated buildings.

Richland County Fairgrounds

Parking \$1.00

Sponsored by IARC & MASER, Inc.

East Coast Radio scheduled to appear.

Talk-in: W8WE 146.94 (-) repeater.

Tickets: \$5.00 at the door.

Tables available, contact n8joz@aol.com write "Advanced Table Sales" in the subject line. Tables \$10.00 in advance, table sales deadline February 1, 2000.

We invite you to visit our web site: www.maser.org



XMAS POEM

Dave Morley, KC8FVM

twas the night before Christmas and all through the shack not a power supply was humming not even my eminac. Give it up said the wife , just one more contact honey and ill call it a night . as I rolled up the dial I said its true the bands dead nobodies there when al the sudden a faint -.-.-.-.- alas someone is there, the signal was weak and then came in real strong than just like that poof it was gone. I turned off the power then started to bed when all of the sudden I heard a loud thud

I ran to the window I feared my tower had fallen , but what to my suprise my eyes should appear Santa got clothes lined by my dipole stretched out , he looked all a mess and went from the snow , he picked himself up and started for his sled I knew something soon I sure was to dred Santa grabbed his sack and headed for the house I offered him some hot cocco he called me a louse you damn hams you're all alike

towers , beams dipoles oh what a bore , Santa stayed for a while then was soon out the door he has to now to fly over the world I helped him out side and into his sled as he said good night its time for me to go to bed

I turned off the porch light I went to the living room and turned the TV on to get the ball scores the news was over jay leno was on ill watch the mono loge and then go to bed I fell fast asleep no to be woken up

it was now 7:30 my wife did exclaim its Christmas morning here's a candy cane she went the to the closet and dragged over a sack it was all filled with ham gear all popular names Kenwood and Yaesu and even and Icom I sprang from my chair and into my shack I brought out a box and I

gave it to her she pulled out a mobile a v-7a a book for tech license and tapes to study code . she hugged and she kissed me jumped up and down she handed me an envelope and inside was a license with my wife's name Ill always remember every Christmas day

Merry Christmas to all de KC8FVM



GEARVACF BULLETIN

by W8FYO

reprinted from the GEARVACf (the f is silent) Bulletin

Volunteer Examiners Too Nice

The FCC thinks Volunteer Examiners are not being nasty enough, according to an official statement issued by FCC spokesman Ralph R. Spiffie. Said Spiffie, "Back in the days when the FCC tested people for ham tickets, our examiners were trained to be real nasty and mean. That way we could intimidate people and weed out the wimps from ham radio. Nowadays, Volunteer Examiners refuse to intimidate anybody. All they do is make sure nobody cheats". Spiffie said that the FCC might require Volunteer Examiners to attend a week of Marine Corps Boot Camp to learn nastiness before administering examinations.

Scientists: Stock Market RF Sensitive

According to GEARVACf Security Chief, Vinney Gobanza, the GEARVACf Scientific Studies Committee has been secretly studying the effects of radio frequency energy on American stock markets. The committee's chairman, Dr. Avruell U. Harnishe, fears he may be assassinated if he announces his startling conclusion: "RF energy actually stimulates trading, particularly in worthless stocks." This finding would seem to explain the peculiar activity exhibited by the Dow Jones industrial averages over the past few years. With stores running out of

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Family Radio Service radios and new HDTV stations coming on the air, more RF is being generated. The situation can only get worse. Hams will soon be ordered to turn off linear amplifiers and point their beams away from Boards of Trade. Cellphones will be confiscated until ways can be found to shield the stock markets from the RF energy they generate. As a result traffic jams can be expected in New York, Chicago, Atlanta, Washington, Los Angeles, Las Vegas, St. Louis, Cleveland, and Miami. Meanwhile, financial czar, Galan Snerpan, is considering a move of Boards of Trade to less populated areas such as Death Valley, CA; Mammoth Cave, KY; and Neon OH.



RFI COURT CASE

Greg Kopp, KG8O

MISSISSIPPI HAM AWAITS COURT DECISION IN RFI CASE

A Mississippi ham arrested for interfering with his neighbors' telephones is awaiting a decision on his request to throw out the complaint on the grounds that the state court has no jurisdiction in the matter. ARRL member Bennie Stewart, KJ6TY, of Meridian, was arrested and charged September 10 after a neighbor filed a complaint with the Lauderdale County Justice Court.

Stewart, a ham for 12 years, appeared in court October 26. He says his attorney, Felecia Perkins, filed a request to dismiss the complaint, brought under a Mississippi law that makes it illegal to "intentionally obstruct, injure, break or destroy, or in any manner interrupt any telegraph or telephone line or communication thereon between any two points." Stewart maintains that only the FCC has jurisdiction, and his station is operating properly.

The ARRL has provided legal defense assistance to Stewart's attorney. The case has been continued while the court mulls its decision. If convicted, Stewart faces a fine of up to \$500, six months in jail, or both.

"It should have never gotten to this point in the first place," Stewart said, adding that he's tried to work with his neighbors regarding telephone interference ever since the first complaints arose three or four years ago. "I put myself on a schedule," he said, explaining that he operates on 40, 20, and 10 meters only on weekday mornings. He says he never operates on weekends, only runs 100 W, and no longer owns a linear amplifier.

"The problem is not here," he says of his station.

A retired professional photographer, the 60-year-old Stewart is confined to a wheelchair. He described his arrest—which he says took place in front of his three-year-old granddaughter—as "humiliating."

Stewart says he expects the court to rule on the case very soon.



APRS TRACKS STOLEN CAR

Greg Kopp, KG8O

I'm forwarding this message which appeared on the nwaprs sig this evening: It's a good thing we got the Red Deer APRS Igate working here in Alberta in the last few weeks.

Just a few days ago, Bill VE6OLD woke up to find his van missing from his driveway near Bentley. He ran down to the computer, and had a quick peek. Hmm, seems VE6OLD-15 was driving around the city of Red Deer. A quick call into the local RCMP detachment, and the boys in the red serge were dispatched to the scene. It seems the young teens needed a vehicle to haul their loot from a recent spate of B&E's to a new location. Not only did the young hooligans get caught red handed for grand theft auto, but the stolen goodies in

the van tied them to a number of other crime scenes as well.

Bill's only complaint? His beacon rate was set at every 5 minutes. It took too long to get position updates from the stolen vehicle.

Wouldn't you love to have seen the look on their faces when old Smokey shows up on their tail?

The RCMP were interested in how Bill knew where his stolen van was, and had a quick introduction to APRS at Bill's house.

Dave adds: This is the second time I've heard of APRS helping retrieve a stolen vehicle. The first occurred in San Diego a couple years ago. Thanks to James Ewen for sharing this great news. Dave/ K7GPS



NASA RESEARCH

Roy Hadden, KB8VJF

(From the Internet)

The Epitome of Space research, NASA, sometimes has scientists who think too laterally. Here's a simple example of their over-creativity. In the early days of the American space program, NASA received reports from the astronauts that their pens would not write in space. Ball points, fountain pens, even quills, nothing worked! So NASA contacted the people who had supplied the pens and made money available for the production of a pen which would write in space. Eventually, thousands of dollars later, a suitable pen was produced, incorporating a small gas filled cylinder which propelled the ink out of the pen. It worked both in space and underwater. The problem was solved, albeit at great expense. Many years later, when co-operation with the Russians was established, it occurred to someone at NASA to ask how the Russians had solved the problem. There was no problem, they said, we used PENCIL.

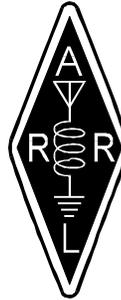
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THE WOBBLY OSCILLATOR

December, 1999

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	



NEXT MEETING

Wednesday, January 19, 2000
 Busch Community Room
 7501 Ridge Road
 South of Pleasant Valley
 Parma, Ohio
 Meeting starts at 8:00 PM



Time to renew your membership?
 Check the expiration date on your address label.



The Wobbly Oscillator
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