



# The Cuyahoga Amateur Radio Society

## THE WOBBLY OSCILLATOR

News

Activites

Articles

Minutes

March, 2003

Vol: XXXII

Issue: III

### From the Prez

We have all heard the old saying “everybody talks about the weather, but nobody does anything about it”, well thanks to the 25 who did something in spite of the weather and came to our February meeting. We were missing several regulars as they were teaching the Technician class on meeting night.

Toby KC8TID had a good supply of hot coffee, cold pop and home baked goodies for refreshments.

Kayla KC8RYH collected \$48.00 for the 50/50 drawing this month, Bill WA8GEO, was the winner and took home an extra \$24.00. We also had drawings for tickets to 3 other hamfests.

Dave K8DAV reported on the results of the “10 meter net survey”. It seemed very favorable, with about 13 members who said they would support a 10 meter net. This is more than we average on the Wednesday .82 net. I am asking for volunteers to follow up and organize the net, set a day, get monitors, set a frequency, notify everyone etc. This is a good chance to get involved in a club activity! Just call 216-524-1750 or e-mail me at bob@2cls.com about helping on this project.

Both the CARS organized Technician and General classes are doing great! We have 7 in the Technician class and with only 2 weeks to go, I am sure on March 12<sup>th</sup>, all will pass at the special VE test session and get their ham license. We also have 7 in the General class and again all are doing an exceptional job! They will test at our regular VE session on March 9, 2003 and I expect all to pass.

We already have 8 signed up for the code class starting March 19 (our next meeting night). The cost is only \$15 and includes class materials and a CD. We can easily accommodate 25 and not be crowded. So if you want to upgrade to Technician with HF privileges or pass the code for your General license **SIGN UP NOW!** Just go to our Web site: [www.cars.org](http://www.cars.org) click on “CW classes” on the home page and fill out the registration form. Or you can call me at 216-524-1750. Gary NI8Z will again

run the CW class this year. He is an excellent CW operator and teacher. George K8KR, Dave K8DAV, Ron K8VJG, Tom WB8N, Steve N8IS and myself will be sharing in the 6 week work load. Unless something special comes up there will be no more classes till 2004.

That's it for this month, hope to see you at our next meeting on March 19, 2003.

de, Bob W8GC

### A FEW WORDS FROM THE EDITOR

Once again we meet through the Wobbly Oscillator, the official publication of the Cuyahoga Amateur Radio Society.

And, once again we have some great contributions from our members to your newsletter! That's right, it is **YOUR** newsletter! It can only be as good as the information and articles in it. And it depends on you, the membership to keep those articles coming! E-mail them to [newsletter@cars.org](mailto:newsletter@cars.org), by the end of the month for publication in the following month's edition. See yourself in print!

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## MEETING MINUTES, FEB 19, 2003

Our President, Bob W8GC, called the meeting to order at 7:31PM, which was held at Busch Funeral Home Community Center.

Our Treasurer, Mike KB8UGT, gave a report on the treasury. Anyone who has not paid their 2003 dues by January 31, 2003 is now past due. Let's get 'em in folks!

Bob W8GC, reported on the SS Mather. The antenna has arrived and will be installed when the weather is favorable.

Tom Wayne W8BN's mother passed away 2 weeks ago...a card was sent.

Gordon W8GTK, made a report on the Wednesday night net and the Bus Trip for the Dayton Hamfest for this year.

Dave K8DAV, reported on the Web Site and the proposed 10 meter net, a discussion followed.

A report on Lighthouse activities was given by Toby, KC8TID.

Steve N8IS, asked for anyone who is interested in a club jacket to send him an e-mail or call.

The next month's VE Session will be on 9 March, 2003 at the Independence Town Hall as reminded to us by Bob, W8GC. The CW classes will begin on Wednesday 19 March, 2003 at the Civic Center in Independence, Ohio.

Bob, W8GC reported that at next month's meeting, Dwaine K8ME, will have a 30 minute program on the DXpedition to the Caribbean Island of Anguilla.

Bob W8GC, reported on a local jammer on the Ham bands.

A solicitation for the Red Cross volunteer communications operators was presented by Jim, KB8SQF.

Bill, WA8GEO, won the 50/50 raffle. Bill's share was \$24.00. Other prizes were a pair of tickets to the Cuyahoga Falls Hamfest won by Bob W8GC, a pair of tickets to the Toledo Hamfest and Computer Show won by Gary NI8Z, and a pair of tickets to the Lake County Hamfest by Carl, K8AV.

A motion to close the meeting was made by Fred, NO2O, and seconded by Terry, KB8DTC. A vote was taken and passed. The meeting was adjourned at 8:07PM by Bob, W8GC.

Following the meeting a video on the dx-pedition to Heard Island, VK0IR, was shown.

Respectfully submitted by Ron, K8VJG - Secretary

## AREA HAMFESTS

March 16 - Toledo Mobile Radio Hamfest. <http://www.tmrahamradio.org>. Contact Brian Harrington, WD8MXR by phone at 419-385-5624 or via e-mail at [wd8mxr@arrl.net](mailto:wd8mxr@arrl.net)

March 23 - Lake County ARA 25<sup>th</sup> annual hamfest. <http://www.hamnet.org/lcara>. Contact: Roxanne by phone at 440-209-8953 or via e-mail at [roxanne@lcara.org](mailto:roxanne@lcara.org).

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## MONTHLY TRIVIA QUESTION

When did the Federal Communications Commission stop giving Amateur Radio license tests and turn the duty over to the Volunteer Examiner Program?

- A. 1980
- B. 1984
- C. 1988
- D. 1990

Answer found elsewhere in this issue.

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## Hotmail & Juno Cut Off ARRL !

Newington, CT - Hotmail.com and Juno.com have notified ARRL headquarters that they have stopped accepting e-mail messages forwarded to users of their services from the arrl.net e-mail forwarding server. Almost 6,000 ARRL members are affected by this action.

According to representatives of the two companies, this is, in part, their solution to the internet-wide problem of SPAM. The ARRL, through the vendor for the arrl.net server, is currently working with both companies to resolve the matter but an immediate solution does not seem imminent. The ARRL apologizes for this inconvenience and will keep members apprised of any progress in this matter.

## VICE PRESIDENT'S INTERVIEW

By Steve Riley, N8IS - V.P.

Just think everyone, only one more month of this weather and we'll be back to spring. Before we know it we'll be back at the picnic grounds for our meetings.

This month my interview is with Tom Wayne, WB8N. Hope you all enjoy reading about our editor and getting to know him better.

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

Tom: I became interested in Amateur Radio back in my Boy Scout days, and there was one boy's dad who was a ham. He started to try to teach us the basics, but for some reason, that didn't last long. Then the boy and his family moved away. But the interest continued, and I ended up a radio operator in Uncle Sam's Canoe Club (U.S. Navy) and that's where I learned Morse code. Ham radio was always in the back of my mind after I got out of the Navy but I think I was always kind of afraid of the theory part of the license test and I didn't pursue it until much later.

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

Tom: Well, in early 1986 I learned from a friend that the Novice test was fairly easy, and I brushed up on my code enough to take and pass the test. At that time the Novice test could be administered by anyone, as long as they were a licensed Amateur and gave a standard type Novice test. So I got my Novice license, studied and got my General, Advanced, and Extra Class licenses all before the end of 1986.

Steve: What do you like about Amateur Radio?

Tom: Lots of things! The ability to talk with other hams over the airwaves...talking to hams in foreign countries...I work a lot of Single Side Band, but also enjoy CW and work some PSK-31 as well. I like working countries that are new contacts for me. I enjoy sending and receiving QSL cards. I like the public service part of Amateur Radio also.

I also enjoy Field Day, and have been active in the CARS Field Day attempts, the past two years serving as the Field Day Chairman. We have done quite respectfully in the standings also, I might add!

Steve: What are your favorite bands to work?

Tom: Besides good old 2 meters, I enjoy working

most of the HF bands. I don't have antennas for 75/80 meters or 160 meters though.

Steve: Do you collect QSL cards? If so, how many confirmed countries do you have?

Tom: Yes, as I said earlier, I like sending and receiving QSL cards, and without counting I would estimate I have over 150 countries confirmed.

Steve: What type of awards or recognition have you won or been awarded with?

Tom: Well, I don't like to brag, but since you asked...I awarded myself with the unofficial Worked All States award, I have been awarded an Elmer award by some past students of an Amateur Radio class we gave several years ago, I have been voted Ham of the Year, or HOTTY by CARS, and I think that's about it.

Steve: What other hobbies do you have besides ham radio?

Tom: I enjoy photography (taking photos is about the extent of that), I like traveling, especially to the Caribbean...I have several interests but I think I can say that Ham Radio is my only actual hobby.

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

Tom: Well, my dream station would probably consist of pretty much what I have now...I have a dual band 2 mtr/70 ctmr mobile-base station in my shack, another 2 mtr rig which I use for packet radio, a computer which is used pretty much just for ham stuff, a Yaesu FT 1000MP HF rig, and an amplifier for the HF rig. Besides a dual band antenna for VHF/UHF, I have a 2 element 5 band quad antenna on a 40ft. tower, and an R-7 vertical antenna for HF. I would LOVE to be able to work 75/80 and 160 meters but just don't have the space or capability for antennas for those bands.

As for the location, I would pick a location on an island in the Caribbean, preferably on the island of St. Maarten. Aruba would do too!

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

Tom: I work part-time for my daughter and son-in-law who own a travel agency and I am retired from the Warrensville Heights Fire Dept. I was a lieutenant when I retired after 25 years. I am enjoying retirement but find I don't have as much time as I would like to spend on Amateur Radio!

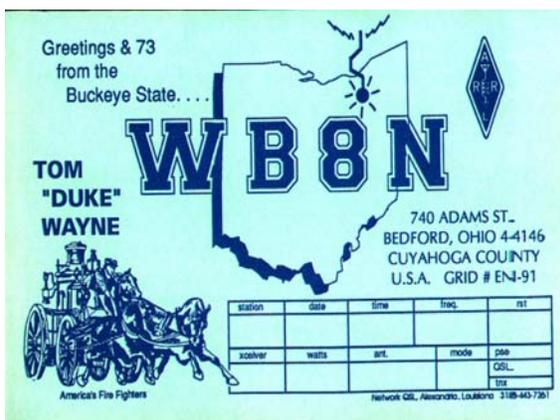
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That's it? No more questions? I might add that I reside in Bedford, am a past president of CARS, a past board member, and am currently the license trustee for K8ZFR, the original CARS callsign. I am also active as a member of the CARS Volunteer Examiner Team, headed up by Gary Dewey, NI8Z.

Steve: Considering our weather lately, I think we would all like to have a dream station in the Caribbean.

Steve: Thank you Tom, WB8N for taking the time to contribute to by article this month.

De Steve Riley, N8IS



### ANSWER TO TRIVIA QUESTION

B. 1984.

In that year the FCC turned over the duty of administering Amateur Radio license exams to the newly formed Volunteer Examiner Committee, the most well know is that run by the ARRL. There are also several others currently in effect at this time. Our own team, headed by Gary Dewey, NI8Z is part of the ARRL VEC.

### DX NEWS

Don Miller, AE6IY (ex-W9WNV is reportedly planning on being at the Dayton Hamvention this year as a speaker at the DX Forum. He is expected to explain the controversies in his Dxpedition career and perhaps in his life as well, that led to disallowance of some of his operations for DXCC credit and to his imprisonment (which at least was not directly related to DXing!). He hopes his explanation will put matters

to rest once and for all and that he will again be accepted into the "fraternity" of Dxers. Don is certainly one of the more famous of Dxing's "personalities".

### THE REST OF THE STORY

W9BRD and his co-worker, W9DY (Elmer "Bud" Frohardt) worked for the Illinois State Police as technicians and communications officers at a small facility. They handled requests for license plate or driver's license information from patrol cars and used CW to communicate with the state capital where the info was kept.

They sometimes helped aspiring hams with theory while sending the data at 50 WPM and typing it on old manual typewriters. W9DY was very well known in the Chicago area for mentoring new novice aspirants with theory, antenna, finding rigs, and repairs. It was almost a full-time job that he approached "with never-ending good nature." Rod wrote a famous article in QST as a tribute to Bud (remember, his given name is Elmer), but in deference to Bud's modest personality he did not name him directly. The term "elmering" is a reflection of Bud's personality and generosity - the term was apparently named for him.

W9DY now lives in a no-antenna community and has started over with DXCC, all mobile CW, and has over 250 countries confirmed. He's now in his 70s, still active in Field Day, tutoring and helping fellow hams, old timers as well as beginners.

And now YOU know the rest of the story!

The Wobbly Oscillator is a monthly publication of the Cuyahoga Amateur Radio Society., P.O.. Box 31264, Independence, OH 44131-0264. Articles may be reprinted in any Amateur Radio related publication, provided credit is given to this newsletter and the author, if known. All submissions should be encoded in .doc, .wpd, or .txt formats to [newsletter@cars.org](mailto:newsletter@cars.org) by the end of the month for publication in the next months publication. The editor of the Wobbly Oscillator is Tom Wayne, WB8N. The publisher is Bob Check W8GC, for the Cuyahoga Amateur Radio Society.

**WEAVER'S WORDS**  
**From the ARRL Web Site**  
By Jim Weaver, Director, ARRL Great  
Lakes Division

Fellow amateurs, and members of the Great Lakes Division, this is the first of what will be periodic messages to you from your director. I, first of all want to thank the many of you that made it possible for me to hold this important position in the ARRL. My goal is to represent the members and the best interests of Amateur Radio throughout my term in this office. I congratulate Vice Director Dick Mondro, W8FQT for remaining Vice Director and look forward to continued cooperation with him as we strive mutually to advance Amateur Radio and the ARRL. I also thank former Great Lakes Division Directors Gary Johnson, KI4LA and George Race, WB8BGY and former director and ARRL Past President George Wilson, W4OYI for sharing their time and consultation so freely with me. The assistance of Dick and these former leaders in our division has been extremely helpful to me, a true newbie on the board.

General Thoughts: The ARRL staff members, as directed by the board, are working their tails off to improve the position of Amateur Radio through state and national government action FCC action, and international treaty. The single most major activity on the international front at present is the strong involvement of the staff to achieve "harmonization" of the 7 MHz band and removal of shortwave broadcast stations from it. This effort is quite costly, requiring much overseas and U.S. travel for meetings with foreign countries with treaty delegates and representatives in foreign countries. ARRL negotiations internal to the U.S. and internationally is augmented by staffing and financial support it gives to the International Amateur Radio Union and its overseas member organizations. In turn, IARU organizations are working aggressively with government agencies and treaty delegations in their respective countries so Amateur Radio can present a unified position at coming treaty negotiations. Your ARRL dues dollars are very truly hard at work to benefit you.

Another major staff activity is the ongoing battle to protect our frequencies - from throughout the entire radio wave spectrum - from encroachment by commercial and other interests, and from

interference caused by devices that do not require specific licenses to operate. In the case of devices of the latter type, any of these that are authorized to operate in the Amateur Radio bands are required to operate at such low power so as to not interfere with our operations. Not all of the devices sold by these manufacturers comply with this limit. Many of them are causing interference to repeater and other Amateur Radio operations. Be assured that through your membership dollars, the HQ technical lab folks are constantly on guard against such devices and along with the HQ regulatory folks are working diligently to make sure the FCC takes appropriate action against these devices and their makers.

Visits to club meetings, hamfests, and conventions: Your Vice Director and I plan to get around the Division quite a bit so we can visit with as many members as possible. We want to hear your thinking on what you like and don't like and what you think regarding Amateur Radio, ARRL and how we are doing our jobs on your behalf. The following is the current schedule for our visits. We invite you to meet and talk with us at these visits.

3/16 - Toledo MRC Hamfest-Dick & Jim,  
3/21 - Lake County ARA meeting-Jim ,  
3-23 - Lake County ARA Hamfest-Jim,  
5/16-18 - Dayton Hamvention- Dick & Jim,  
9/6-7 - Great Lakes Division/Findlay Hamfest-Dick & Jim,  
9/28 - Cleveland Hamfest-Jim

*(editors note: I have only included the dates that would be of interest to our membership area.)*

This is all for now. Thanks for your continued support of the ARRL. Thanks to you the League is able to continue working on your behalf and in the best interest of Amateur Radio. Make no mistake about it, without the ARRL, there would be no Amateur Radio. One of the best ways to protect Amateur Radio is to get new members. One may disagree with certain actions taken by the Board, but there is no other organization to fight effectively for Amateur Radio.

Tnx, 73, more later.  
Jim Weaver, K8JE  
Director, Great Lakes Division, ARRL  
K8JE@arrrl.org

## PUBLIC SERVICE

Communications (Ham)  
Volunteers Needed For The March of  
Dimes WalkAmerica

The March of Dimes will be holding it's annual WalkAmerica on SATURDAY MAY 3rd. This is a walking event held at Six Flags in Aurora (Ohio) to raise money for healthier babies. There will be approximately 7000 people walking the 3 mile route through the park. Communications is required at all rest stops, start/finish and various other critical points along the route. The volunteers are needed from 7:45 Am until approximately 1:00 PM. A total of approximately 16 volunteers is needed.

This is a fun event where the volunteers are very appreciated and treated well. You will get 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](mailto:tjp@tjp.com) or at 330-468-1984. We can use all the help we can get. Additional volunteer opportunities are available at <http://www.neopsv.org>

Here are some frequencies you can listen to, to learn about driving conditions in your area:

- 155.685 - O.S.P. Turnpike West
- 155.790 - O.S.P. Turnpike East
- 158.985 - Operations West
- 159.165 - Operations East
- 45.020 - Radar Patrol Air
- 154.935 - L.E.E.R.N. Primary
- 154.680 - L.E.E.R.N. Secondary
- 44.740, 44.860, 45.140, 45.860, 44.980, 44.820 - Ohio State Hwy Patrol
- 453.700 - Cuyahoga County Roads

## FOOD FOR THOUGHT

### WHAT IS HAM RADIO ANYWAY ?

Amateur Radio exists because it is a medium for:

1. Self Training
2. Intercommunications
3. Technical Investigation

Those that see the internet as a "better" medium, fail to understand the nature of Amateur Radio. Amateur Radio is not a medium for communications, but for technical investigation of the means by which that communications occurs.

Take away that dimension, and Amateur Radio is nothing more than just "CB".



**ARRL 2003  
FIELD DAY  
LOGO ,  
SLOGAN  
Emphasize  
Emergency Role**

Newington CT,  
Feb.13, 2003 -  
The new 2003

Field Day logo says it all: "WHEN ALL ELSE FAILS". The four- part image, which will be on this year's Field Day pin and other gear, depicts a tornado and downed utility lines in opposite corners, and an Amateur Radio Transceiver in the lower right. Jerry Conover NE7I, suggested the slogan for 2003. "It came to me just before Field Day last year" said Conover, a professor of marketing at Northern Arizona Univ. "I think there is a general lack of understanding in the public about what Hams can do" he said. "Think the slogan shows our sprit and pride as amateurs and lets the world know we'll be there". The logo was designed by ARRL Graphic Arts Supervisor Sue Fagen and Senior Technical

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Illustrator, David Pingree, N1NAS. The “When All Else Fails...” slogan fits right in with the original notion of Field Day. Started in 1933, the exercise was, and still is, a way to test a club’s or station’s emergency preparedness. The logo and slogan for 2003 also help to focus attention on the new Class F operating category. Stations operating as Class F, will go on the air during Field Day from an Official Emergency Operations center (EOC) set up by a governmental agency or a non-governmental organization such as the American Red Cross or the Salvation Army.

ARRL Contest Branch Mgr. Dan Henderson, N1ND announced this week that 2003 Field Day products are now available to order via the ARRL web site catalog. Products include the popular Field Day pins and T-shirts. Items should be ready to ship by the end of March. In addition to the general Field Day fare, ARRL is introducing special items in support of Get On The Air (GOTA) participants. New GOTA pins and T-shirts will help identify GOTA operators. The shirt has the Field Day logo on the front and the words Get On The Air on the back. The GOTA pin design will remain unchanged from year to year as GOTA is designed to be a one time activity for participants.

“The GOTA pin will be a great keepsake for these operators” said Henderson.

The Cuyahoga Amateur Radio Society will

again hold their Field Day operation at the Al Koran Mosque in Broadview Hts. We are making plans for this event already. More will be announced as we get closer to the date of the event. If you want further information, contact Tom Wayne WB8N, CARS Field Day Chairman. This is always a fun event and all are welcome.



## THE RANDOM WIRE

By Tom Wayne, WB8N

### A MYSTERY

This is a tale of a mystery of the type which should start out with “It was a dark and stormy night”, but it wasn’t. It is a tale of intrigue, adventure, danger, and all that stuff! As I look back on the event now, I shudder to think what could have happened to the brave soles involved in this covert operation had they not had the experience and complete lack of thought for their own safety when they undertook this dangerous undertaking! It all went something like this...no, it went exactly like this.....

It all began when our President Bob, W8GC received information that a person or persons, who shall remain unidentified for their own safety, was receiving weird radio signals over their television, stereo, pc speakers, and possibly their bed springs

Not knowing any better, this person right away decided this interference was being caused by Ham Radio! He somehow came across the CARS web site and in his desperatio contacted our President about his dire situation. This nameless person had begun hearing these radio signals about the time he moved into his current abode, about one year ago, and the reception of these mysterious signals has been on-going ever since, much to the consternation of this hapless soul!

The signals were in the form of a human voice, talking to someone else, who could not be heard, about things like playing cards, and the dangers of peeing on an electrified fence! The reception of these unwanted transmissions could be heard at various times of the day and night and was a daily phenomenon which was causing havoc with this individual’s daily living and sleep! He had tried devices suggested by the wizards at Radio Shack, such as filters on his equipment and torroids on the cables and wiring of his equipment, but to no avail! He was at his wits end!

Our president contacted a member of *continued on next page... We could have said continued next month, but that wouldn't have been very nice.*

CARS, who will remain anonymous for reasons of security, and he alerted another member who also will remain anonymous for the same reason. These two fearless souls formulated a plan and began their investigation into this citizen's problem. On a cold and dreary day, under the dark of noon, these two brave investigators venture out on the streets of Cleveland to locate the source of the mysterious radio interference.

They were armed only with the clues that the complainant had supplied, which were very sparse to be sure! They had the address of the complainant, and the fact that nearby was a church with an antenna tower and also a private house with an antenna tower, both with antennas on the top of them.

So, on this cold and dreary day the members of the CARS Interference Investigation Team went into action! The location was in the area of "Ohio City", an area to which one member of the team had never been, and to which the other member had only been once or twice. First they had to find "Ohio City". Finally after meandering down car lined streets and narrow back alleys, our fearless fellow members located the infamous "Ohio City" and were cruising down Franklin Ave.

Now for those who are also not familiar with this area, Franklin Ave. is the location of the infamous Franklin Castle, known to be a haunted mansion, so it was with some trepidation that our fearless investigators ventured into this "twilight zone".

Upon locating the address of the reception of the unwanted mysterious radio signals, the two immediately noted the church directly across the street from the hapless victim's address. There indeed, sticking straight up toward the sky was a tower of sorts. Actually it was a long pole. It was guyed to keep it upright, and atop was a strange antenna, the likes of which neither had seen before. It was obviously an FM beam of sorts, but there was no rotator! Our two man team drove down a side street along side the church and found a sign attached to the church which read: Ministerio Radio Cristiano, 88.1 Mhz, WMRC, "Radio Ebenezer", Uncion-Poder-

Fuego. Wow! They had come upon a low-power Spanish speaking broadcast station! (The area has a lot of Spanish speaking residents.) They tuned the broadcast radio in their vehicle to 88.1 MHz. Nothing. Evidently the station was not on the air just then. They decided that this was probably not the cause of the unwanted radio reception by the person who lived across the street, since for one thing, he never mentioned Spanish being spoken in the transmissions he received over his electronic equipment. Back to Franklin Ave. They looked above the roofs of the nearby houses and there it was! Directly behind the home of our complainant, an antenna tower sticking up above the roof tops, with a citizens band type beam antenna perched on top! With no rotator no less. From the rust on the metal of the tower, it was obvious that this structure had been there for some time and from the close proximity of the antenna to the dwelling of our nameless friend (his name is Pete by the way) it was no wonder that he was receiving signals from the CB operator living and operating behind him, less than 30 ft. away! The CB-er was most probably running an illegal power amplifier as well! The mystery was, as Inspector Clouseau would say, SOLV-ED! Our investigation team was elated! They had exonerated Amateur Radio Once again! After-all, we can't have people going a round blaming Ham radio for things Ham radio was not responsible for! Although there was nothing that we could do to stop the unwanted reception of the CB signals, we could at least inform ole Pete that Ham radio was not to blame.

Upon solving the mystery, our two heroes went back to the home of one, where they celebrated with a San Miguel Beer and a turkey sandwich, prepared by one of them. Later a phone call was made to Pete informing him of their findings. He was thankful for the information, but not too happy that nothing much could be done. The FCC was notified, in case there WAS illegal power being run by the CB-er. Case closed. 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

### Community Education & School Program

Dave KD8V \*\* 330-666-8721

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

### Dayton Bus

Gordon W8GTK \*\* 330-225-6917, Bob W8GC

### Elmer

George K8KR \*\* 216-941-5304

### Field Day

Tom WB8N \*\* 440-232-4193, Aaron KC8INE

Bob W8GC, Steve N8IS, Gary NI8Z

### Ham License classes

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

### Independence Home Day

Steve N8IS\*\* Kayla KC8RYH, Bob W8GC,

### Interference & Jamming

W8GC\*\*, NI8Z, N8IS, N8TCP, WB8N

### JOTA

Steve, N8IS

### Lighthouse events

Toby KC8TID \*\* 440-572-1544, Bob W8GC

### 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 \*\*

### Ohio Bi-Centennial year

N8TCP\*\*, W8IXY

### WO/Newsletter

Tom WB8N \*\* 440-232-4193

### Program director

Gary NI8Z, \*\* 216-642-1399

### QSL manager-NO8A & K8ZFR

Tom WB8N \*\* 440-232-4193

### Refreshments & 50/50

Toby KC8TID \*\* 440-572-1544

50/50 Kayla KC8RYH

### Sunshine (welfare)

Aaron KC8INE \*\* 440-526-9705

### Technical

Roy KB8VJF \*\* Bob W8GC \*\* Terry KB8DTC

Vince N8OVW, Dave K8DAV, Tom WB8N

### VE exams

Gary NI8Z \*\* 216-642-1399

### Web Master/e-mail

Dave K8DAV \*\* 440-243-3593, Bob W8GC \*\*

\*\* chairman or co-chairman

