

NOVEMBER 1994

THE GROUNDWAVE

*** NOTICE *** NOTICE***

THE NOVEMBER 2, 1994,
OARC GENERAL MEETING
WILL BE HELD AT THE RA CENTRE
ON RIVERSIDE DRIVE



NEXT MEETING WILL BE HELD
WEDNESDAY, NOVEMBER 2, 1994

Club Call VE3RC

Repeater VE2CRA



Official Bulletin of the Ottawa Amateur Radio Club, Inc.

The Ottawa Amateur Radio Club, Inc., Box 8873, Ottawa, Ont., K1G 3J2

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THE OTTAWA AMATEUR RADIO CLUB, INC. is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio communications in the National Capital Area; and to the advancement and achievement of club members.

REGULAR MEETINGS of the OARC, Inc., are held on the first Wednesday of each month (except July and August) in the Champlain Room (2nd floor of the Old Teacher's College) of the RMOH HQ complex on Lisgar St., Ottawa, at 1915 hours. Further details about each meeting is elsewhere in this publication.

THE OARC EXECUTIVE normally meets on the second Wednesday of each month at 1930 hours. Contact the President to confirm the date of the next meeting.

PACKET RADIO MEETINGS will be held at 7:30 p.m. on the last Thursday of every 2nd month, starting September 1993, at the Museum of Science and Technology. This is an OARC technical meeting open to all who have an interest in packet radio.

DEADLINE FOR COPY is the second Wednesday of each month. Make yourself better known to fellow members and other amateurs, too, by giving us an article, technical or otherwise, relative to our hobby.

MATERIAL PUBLISHED herein does not necessarily represent the official OARC viewpoint. Items may be reprinted by Amateur Radio or other publications provided that proper credit is given to the author and to the OARC, Inc.

JUNIOR MEMBERSHIPS - To encourage young people to join the club and to participate in amateur radio, the club is opening a junior class of membership. Dues will be at a 50% discount but the junior member must pick up his/her copy of the Groundwave (preferably at the meeting).

RADIO AMATEUR CALL BOOKS are available at many local libraries. Ask at the information desk.

SAFETY BELTS AND AN ENGRAVING PENCIL are available for loan to club members. The engraving pencil (to mark valuables for identification in case of loss or theft)

and the safety belts with pole straps are available to any members. For the belts, a refundable deposit consisting of a cheque equal to the replacement value of the belts is required. Contact the President for the engraving pencil; and Paul, VE3ICV, at 820-6643 (West End) or Brian, VE3JKZ, at 523-1535 (East End) for the belts.

THE CAPITAL CITY NET meets every Monday at 2000 hours on the Club Repeater VE2CRA (146.34/.94) to pass traffic and to make announcements of interest to amateurs in the National Capital Region.

PACKET RADIO VOICE NET meets following the Capital City Net on VE2CRA at 2040 hours. This is an informal net to answer questions about packet radio, pass along operating hints and provide information for future packet operators.

THE SWAP NET is a service provided and conducted by Ed Morgan, VE3GX. This feature appears on the Capital City Net, noted in the foregoing paragraph. To list items and make inquiries, call Ed Morgan at 733-1721.

POT-HOLE NET is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club, and conducted every Sunday at 1000 hours on 3.760 Mhz. All amateurs are welcome to check in. The Swap-Net is a regular feature.

POT-LID CW NET is an informal slow-speed CW net sponsored and conducted by Ed, VE3GX, and meeting every Sunday, except during July and August, at 1100 hours on 3.620 Mhz, to promote interest in CW and CW procedures.

REPEATERS

VE2CRA	Voice	146.94/34	
		443.300/448.300	
VE3OCR	Packet	145.01(sx)	Inter city links
VE3OCR	Packet	145.07(sx)	Local Area net for QSO and Packet BBS.
56 kbps	Packet	220.55/433.55	
VE3DXD	Packet	145.11(SX)	

For further information, please contact repeater chairman.

***** NOTICE *** NOTICE *****

The November 2, 1994, meeting of the OARC will be held at the RA Centre on Riverside Drive.

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MINUTES OF OARC GENERAL MEETING
HELD OCTOBER 5, 1994

The meeting was called to order at 19:39 by President Roger Swickis, VE3BZR.

Joe Norton Award

Vice President Richard Hagemeyer, VE3UNW, announced this year's recipient of the Joe Norton Award, Chris John, VA3SID. While Chris was the only applicant, Richard advised the members that Chris clearly met the criteria and was deserving of the award.

OC Transpo Radios

Paul Coverdale, VE3ICV, announced that OC Transpo was disposing of sixteen 30 watt Western WR 1455 UHF radio. Sealed bids would be taken until October 17, 1994.

OARC Flea market

Peter Hafichuck, VE3LBW, announced that for a number of reasons this year's flea market had unfortunately been cancelled. Roger extended the club's sincerest appreciation for all of Peter's efforts. It was suggested that any future effort be coordinated by a committee as it is far too much for any one individual.

Bylaws

Richard VE3UNW explained that last year's executive experienced, on a number of occasions, problems taking a vote due to the bylaws regarding quorums. It was noted that the present wording was too restrictive and often the executive was without a quorum. Accordingly, the issue was raised at the June meeting and it was decided to publish the bylaws. The issue of amendments was deferred. Richard, VE3UNW, made a motion to increase the number of executive members from 10 to 12 by adding a packet working group chair and the membership chair. The motion was seconded by Gord, VE3XGD. An objection was raised by VE3JKF who suggested minor changes could have been made to the bylaws and that the executive should set a date by which the changes would be made and brought before the membership. Further discussion ensued with motion raised by Gord VE3XGD and VE3YTZ. The initial motion was voted and carried with a majority vote. Richard, VE3UNW, assured the membership that proposed changes would be made to the bylaws and brought before the membership.

Guest Speaker

Roger introduced the evenings guest speaker, Barry VE3JF, who spoke on digital radio broadcasting. After a very informative talk accompanied by slides Roger thanked Barry on behalf of the club.

Announcements

John Connor VE3TG reminded the members that elections for RAC were coming up and that he was running for Director, Northern Ontario, and would appreciate your support.

A HTX-100 10m transceiver and an ICOM transceiver were given to the club from the estate of Stan Roadhouse VE3JLI.

Richard VE3UNW extended his apologies for mailing labels which bore incorrect expiry dates.

Gord VE3XGD reminded that volunteers were needed for Jamboree on the Air. Contact Gord for information.

Adjournment

The meeting was closed at 21:20 and was followed by coffee and a ragchew.

SPEAKER AT THE NOVEMBER MEETING

The speaker at the November meeting will be Jim Dean, VE3IQ. Jim will talk about the future of amateur licensing in Canada. RAC has a working group to co-operate with Industry Canada in transferring licensing responsibility to RAC.

FOR SALE

ICOM 6M transceiver, CW/SSB - \$150. Call Richard, VE3UNW, at 225-3275.

VA3CGD ON THE AIR

Canadian Guide Dogs for the Blind Training Center, Manotick, Ontario

C.G.D.B.T.C. was started by Bill and Jane Thorton in 1984. Now 10 years later they celebrated the 10th anniversary on the 27th of August 1994 in their new large buildings on a 10 acre lot in Manotick, Ontario. Special event station VA3CGD went on the air for the very first time about 1300Z 27 August 1994. The rigs were set up on the front veranda of the main building. One station on 80/40M, one 20M and one 2 Metres. We logged almost 300 QSOs.

Several visually impaired hams operated: Jerry, VE3MPH; Ian, VE3PSK; and Roy, VE3FVI. Some of the stations logged were GONJE, a guide dog training center in England, VE3CNE Toronto Ex, VE3RAM Ottawa Ex, VE7RCN Commonwealth Games.

With lots of visitors from many parts of the world, plus local TV reporters and newspaper journalists, it was a great day, WX and all.

Mike Cardill, "Guider" Project Manager, designed a special event 8.5 x 11 QSL certificate for the 10th anniversary and another QSL certificate for any other time you may QSO with VA3CGD.

The station is already planning other events such as Field Day, Canada Day, etc. It is hoped that many visually impaired operators will be on hand to operate VA3CGD. Also "plans are in the mill" to outfit VA3CGD as a complete station with equipment for visually impaired.

VA3CGD is independent of any amateur club, but would welcome support from all clubs to help with equipment, etc. Thanks go out to the Iroquois Amateur Radio Group for donating a 30 foot aluminum mast.

Hans VE3REL's rigs were used on 20 and 2 Meters, Bill VE3GPR's rig was used on 80 and 40 Metres, and Gord VE3KKL and Norm VE3NFH supplied a great deal of needed help.

For more information, write:

VA3CGD
c/o C.G.D.B.
P.O. Box 280
Manotick, Ontario
K4M 1A3

de 73 Bill VE3GPR
(licensee of VA3CGD)

A LITTLE HUMOUR

by Pearson, VE1SWL

When Calvin Coolidge was about to leave his home for the White House, his neighbours arranged to present him with a handsome rake in remembrance to his devotion to the old farm.

The neighbours got together quite a ceremony and the orator who was to make the presentation devoted some time in discussing the qualities of the Hickory wood from which the rake was made.

Hickory he said, is like our President, it is sturdy, strong, and unbroken.

He then handed the rake to Mr. Coolidge, and the audience leaned forward in anticipation of a graceful acknowledgement.

For a long moment Coolidge examined the rake, he seemed to be reaching for just the right words of gratitude. Finally he looked up.

"ASH" he said.

de Reflector, Bulletin of the Halifax
Amateur Radio Club.

mk's WORDS

Oct 14/94

There will be no monthly rambling blat from VE3FFK this month. I haven't done any radio related stuff since I wrote my last column. .. well maybe I controlled (sort of) a few nets, and checked into a few others, but that doesn't really count, does it? My QSO total is up by less than a page in the logbook, no new countries or grid squares, nada. It's not that the bands are too noisy, or the sunspots too few. The radios aren't bused (at least any more than they were last month). I haven't acquired a new "significant other". I've been re-acquainting myself with another old hobby of mine.

I've been reading.. about 3 books a week for the last six weeks or so, on average. That includes everything from Tom Clancy's "Without Remorse" to "How To Make a Working Flying Saucer" to "The Laser Cookbook". So give me another month to get over it, and maybe I'll have something smart to say about this radio stuff. I usually burn out my library card after a few months of solid reading, then I'm back to what passes for normal for me. ..and, no, the Laser Cookbook isn't about how to fry your steak by passing it through a laser beam.. sorry.

Meanwhile, at the November meeting, let us know what nifty goodies you scooped at the Montreal auction/fleamarket. Too bad about our own fleamarket, but it can't be done as a one man show.

I hope you all worked/helped out at Jota.

Now get those leaves raked, find your gloves and see you all next time.

73.. mk

SPELL CHEQUING

As an added service I am going to put this column in the Spilling Chequer, where I trust it will sale through with flying colons. In this modern ear, it is simply inexplicable to ask readers to expose themselves to misspelled swords when they have bitter things to do. And with all the other timesaving features on my new work processor, it is in realty very easy to pit together a colon like this one and get it tight. For instants, if there is a work that is wrong, I just put the curse on it press the delete quay and it's well sometimes it deletes to the end of the lion or worst yet to the end of the whole rage. For bigger problems their is the cat and paste option. If there is some test where you wish it were somewhere else, you just put the curse at both ends and wash it disappear. When you decide where you can to put it you just curse on that spot and their it is. Sometimes it brings in the Cat that was pasted yesterday but usually it comes out as planed or better. If it doesn't, there are lots of other easy to lose options one of which is bound to do exactly what you want. In no time at all you will be turning out perfect artifacts like this one.

So join the marsh of progress. Hitch your wagon to a stair. When you become adept at world processing there's no end in sigh. On the other hand maybe not. But without a doubt, Spill Chequing is hear two stay, trust me.

Author Unknown.

de bulletin of the
Guelph Amateur Radio Club

MEMBERSHIP RENEWAL

Don't forget to renew your OARC membership if you haven't already done so.

DID YOU KNOW DEPT.?

The traditional expression "73" goes right back to the beginning of land-line days. It is found in some of the earliest editions of the numerical codes, each with a different definition, but each with same idea in mind -- it indicated that the end or signature was coming up. There is no data, however, to prove that any of these were ever used.

The first authentic use of 73 is in the publication The National Telegraphic Review and Operator's Guide, first published in April, 1857. At that time 73 meant "My love to you!" Succeeding issues of this publication continued to use this definition of the term. Curiously enough, some of the numerals used then had the same definition as they do now, but within a short time the use of 73 began to change.

In the National Telegraphic Convention, the numeral was changed from the Valentine-type sentiment to a vague sign of fraternalism. Here, 73 was a greeting, a friendly "word" between operators, and it was so used on all wires.

In 1859, the Western Union Company set up the standard "92" code. A list of numerals from one through ninety two was compiled to indicate a series of prepared phrases for use by the operators on the wires. Here, in the 92 codes, 73 changes from a fraternal sign to a very flowery "accept my compliments", which was in keeping with the florid language of that era.

Over the years from 1859 to 1900, the many manuals of telegraphy show variations of this meaning. Dodge's The Telegraph Instructor shows it merely as "compliments". The Twentieth Century Manual of Railway and Commercial Telegraphy defines it in two ways, one

listing as "My compliments to you"; but in the glossary of abbreviations it is merely "compliments". Theodore A. Edison's Telegraphy Self-taught shows a return to "accept my compliments". By 1908, however, a later edition of the Dodge Manual gives us today's definition of "best regards" with a backward look at the older meaning in another part of the work where it is also listed as "compliments".

"Best regards" has remained ever since as the put-it-down-in-black-and-white meaning of 73, but it has acquired overtones of much warmer meaning. Today, amateurs use it more in the manner of James Reid had intended it to be used -- a "Friendly word between operators".

de Peel Signal, Newsletter
of the Peel Amateur Radio Club
who credit
Loise Ramsey Moreau, W3WRE
ARRL Operating Manual
and the North Shore Amateur Radio
Club Summer edition of Sparks

MORSE, Samuel F.B. (1791-1872)

by Rick, VE1RGG

"I wish that in one instant I could tell you of my safe arrival, but we are 3,000 miles apart and must wait four long weeks to hear from each other." Samuel Morse - 1811

He was 20 years old when he wrote this sentence in a letter to his mother at home in Charlestown, Mass., where he had been born. He was in London studying art at the time.

Samuel Finley Breese Morse was born on April 27, 1791. He was the eldest son of Jedidiah Morse, a noted Congregational Minister, and Elizabeth Ann Breese Morse. He was educated at Yale University. While he was in college he became

interested in electricity, but his chief enthusiasm was art. His father opposed a career as an artist but sent him to London to study in 1811 after hearing that his artistic work had been praised.

Samuel returned in 1815 only to find that he made a meager living painting portraits. In 1825 he did paint two of the Marquis de Lafayette which became well known. Morse became well known in New York's artistic and intellectual circles. He helped to found the National Academy of Design and was its president. After 1835 he held a professorship in art at the University of the City of New York.

Morse was inspired to invent the telegraph by a chance conversation while returning from Europe on a steamship in 1832. A fellow passenger told him about European experiments in Electromagnetism. Morse remarked: "If the presence of electricity can be made visible in any part of the circuit, I see no reason why intelligence may not be transmitted by electricity." During the rest of the voyage he worked excitedly on drawings for his plan.

Morse had an inventive mind but little knowledge of electricity. Years of work and study were needed to perfect his device. People admired his determination in the face of poverty and disappointment. He received help from others.

In 1837 he applied for a patent on The American Electromagnetic Telegraph. He went to England, France, and Russia seeking aid for his invention but met with failure there as at home. Finally in 1843 the United States Congress appropriated \$30,000 to build a line from Washington to Baltimore. In May 1843 the first message was flashed over this wire. Its text was " What hath God wrought?"

After his years of sacrifice, Morse enjoyed to the fullest the wealth and honors that came to him as a great

inventor. Newspapers, railroads, and businesses quickly found use for the telegraph. After the founding of Western Union in 1856, wires were soon strung from coast to coast. Other men of science had worked on the problem, but Morse's invention was the basis of the land telegraph systems that developed. The code of dots and dashes used in sending messages is still known as the Morse code in honor of its inventor. He died on April 2, 1872. Public memorial meetings were held across the nation in his honour. (from Compton's Interactive Encyclopedia - 1993,94)

de Reflector, Bulletin of the Halifax Amateur Radio Club.

A SIMPLE J-POLE ANTENNA

A J-Pole antenna offers good gain, compact size, simplicity and very low cost. They are easy to build and compare very favorably against commercially available antennas. As a side benefit, they are DC grounded for lightning protection. The construction style provides for a very durable antenna and one that is easy to mount. The total material cost should be about \$10.

Material list:

- 1) One ten foot piece of 1/2" rigid copper tubing
- 2) One 90 degree 1/2" elbow fitting
- 3) One 1/2" "tee" fitting
- 4) Two 5/8" rubber chair leg caps (or 1/2" copper end caps)
- 5) Two small stainless steel hose clamps

Construction:

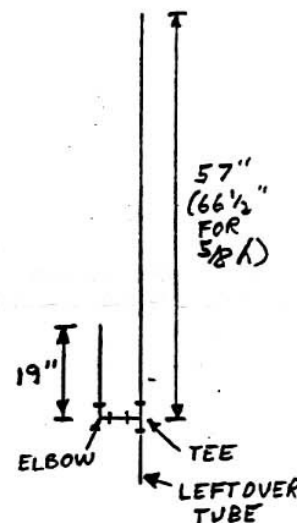
- 1) Cut the copper pipe to the following lengths (save the piece which is left over)
 - 57" (66 1/2" for a 5/8 wavelength)
 - 19"
 - 3/4" (used to join the two fittings)

- 2) Using normal plumbing techniques (solder, flux, torch) connect the tubing as shown in the illustration.
- 3) Install either the rubber feet or solder the copper end caps in place.

Tuning:

- 1) Attach the hose clamps about 3" up from the bottom of the "U" (5" for the 5/8 wave).
- 2) Attach the inner conductor of the coax to the 19" side and the braid to the 57" (or 66-1/2") side.
- 3) Check the SWR. Slide the clamps with the coax up or down until a 1:1 SWR is achieved.

If the copper color is not to your liking, paint it any color you wish. It is strongly suggested that you use a good silicon compound to water-proof the coax connections against the elements.



de Peel Signal, Newsletter
of the Peel Amateur Radio Club