

APRIL 1996



GROUNDWAVE

NEXT MEETING WILL BE HELD
WEDNESDAY, APRIL 10, 1996



Club Call VE3RC

Repeater VE2CRA

VE3JXM

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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Coffee Guy			

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 second Wednesday of each month (except July and August) in the Champlain Room (2nd floor of the Old Teacher's College) of the RMOC 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
VE3DX	Packet	145.11(SX)

For further information, please contact repeater chairman.

OARC WWW Home Page:
<http://www.worldlink.ca/oarc>

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APRIL MEETING: Wednesday, April 10,
 1996, at 7:30 PM Keefer Room, RMOC 111
 Lisgar St. Ottawa.
 Programme: **Home-Brew Nite!**

MINUTES OF THE OARC MEETING
MARCH 20, 1996

The meeting was called to order at 19:38
 by Doug Burrill, VE3CDC.

The president Richard, VE3UNW welcomed
 the guests to the meeting: Anne, VE3TSB,
 Ken, VA3KA and Larry, VE3RR. He invited
 them to stay for the ragchew after and
 have a free coffee.

The following announcements of interest
 the radio amateur community were made.

1. The Emergency Measures Radio Group
 (EMRG) of the Regional Municipality of
 Ottawa/Carleton will be meeting in the
 Mackenzie room here in the RMOC on
 Saturday, March 30 at 9:00. All members

with an interest in the future direction
 of this group are encouraged to attend.

2. A reminder that the OARC annual home
 brew night will be held next month.

3. The OVMRC flea market is scheduled
 for June 8th at Algonquin College Lees
 Campus.

4. VE3CRC the amateur radio station of
 the Red Cross here in Ottawa, is
 operating all month to celebrate the
 anniversary of the Red Cross. The
 Military Net held on Thursday at 20:30
 will be run from VE3CRC and all amateurs
 may check in to the net for a QSL card.

5. Mike, VE3FFK has found employment and
 wishes to thank all those who aided him
 in his job search.

6. John Gilbert, VE3CDX is looking for
 anecdotes, information or memorabilia
 from people who may have worked in the
 Joint Arctic Weather Stations, (JAWS),
 particularly between 1947 and 1951. He is
 planning a reunion at Resolute Bay in
 1997 for the 50th anniversary. If you
 worked at JAWS or know of someone who
 did, please contact John at 714 Highland
 Ave, Ottawa, K2A 2K7 or by e-mail:
 jgilbert@fox.nstn.ca

7. The next shuttle mission is scheduled
 to fly March 21st through 30th. This
 will be a SAREX mission.

8. A Heathkit HW-8 in unbuilt, pristine
 condition was "donated" to Richard,
 VE3UNW in exchange for tuning and
 alignment of another HW-8. The advanced
 class is undertaking this task and any
 proceeds from the HW-8 will go towards
 the educational aims of the club. It has
 not been decided how the HW-8 will be
 disposed.

9. The executive reports that the budget
 process is moving along. The proposed
 membership fee will likely be closer to
 \$20 and not the \$23 to \$25 as indicated
 last month.

10. Len, VE3LGZ is selling Ni-Cads for \$1/pair at the OVMRC. Proceeds go to the OVMRC.

11. A tailgate flea market is planned for March 23rd 9:00 at the Museum of Science and Technology in the back parking lot.

12. Gervais Electronics is selling off their stock of tubes and other discontinued parts by the end of the month.

Richard introduced Clare Fowler, VE3NPC tonight's speaker. Clare spoke about the current state of amateur satellites and compared this with the early days and the possible future of amateur radio. He also spoke of the general situation of the radio amateur and what he sees as the challenges facing the individual and the organization in the near future.

Editor's note - It is hoped the complete text of Clare's presentation will appear soon in the Goundwave.

Clare took questions from the floor about satellite operations. He was doubtless questioned during the ragchew about his positions on the direction of amateur radio!

Richard thanked Clare for his thought provoking presentation and closed the meeting shortly after 21:00 for ragchew and coffee.

The 50/50 draw run by Peter, VE3LBW was won by Richard, VE3UNW. \$19 was split.

OARC MEETING PROGRAMS, SPRING 1996

May: Member Recognition & Awards
June: Elections

mk's WORDS

Mar 19 96

Well I'm back..

It's been a long winter for me, but it's over now and I'm busier than ever. Between learning the ins and outs of the new job, and a longer commute, there is still time to play radio a bit. Somehow, when I was "between jobs", there was no more time for radio than when working for a living. The retired folks all tell me that there isn't any more time once retirement time arrives. Sohowmuch/little does one have to work to maximize the amount of radio time?

As I write this, I'm sitting in the lab with the advanced class as they try to get a radio up and running. We hope the fussy details of mixers, oscillators and amplifiers will stick better after they have seen them in a real radio. I have a feeling that some of these guys will be showing up at home brew night next year.

Speaking of homebrew night, I will have a few toys there again this time, although maybe fewer than in a normal year. Still unfinished is a project to modify the house a bit to make it easier to work on antennas. I look forward to seeing what everybody else brings in.

I hope you all have your antenna work planned out for the few weeks between "its too cold" and "gee the bugs are bad this evening".

73..

mk VE3FFK

COMING EVENTS OF INTERESTVE3JW Special Event Day

On April 14/96 there will be a special event station held at the Museum of Science and Technology to celebrate the 1st year opening of the amateur radio exhibit, VE3JW. Frequencies will be 3860, 7260, 14260 (+/- QRM) and 147.300 (+) during the hours of 1400-2200 UTC.

To receive a certificate, send a 9*12 SASE to: VE3JW, Box 5530, Stn F, Ottawa, Ontario, K2C3M1.

Teacher/school required for space shuttle contact

Two local hams, Dennis Mungham VE3ASO and Elaine Fortin VE3UXZ, are setting up a project which would allow students to communicate with the space shuttle via amateur radio. They are looking for a teacher affiliated with a local school to volunteer to be the educational coordinator. He should be keen about space exploration and willing to organize student participation.

Planning will take about 1-2 years and this educational coordinator will be expected to prepare (with our assistance) a proposal to be submitted to the Canadian Space Agency. NASA assigns the time schedules to chosen schools as part of SAREX (Shuttle Amateur Radio Experiment). The contact will last for about 15 minutes and to involve as much student activity as possible.

If interested please call either Elaine at 721-7070 or Jacques VE3TSC at 748-6597 (evenings).

AUCTIONS, FLEAMARKETS, AND HAMFESTS FOR THE 1996 SEASON.

April 13, 1996

WEST ISLAND AUCTION & FLEA-MARKET (MONTREAL)
TRANSFIGURATION OF OUR LORD PARISH CHURCH, DUDEMAINE AND FILLION st., CARTIERVILLE QUE. VENDORS 7.00 AM. PUBLIC 8.00 AM. AUCTION 9.00 AM. Admission \$3. Vendor tables \$15., incl. 1 admission
INFO CALL Arny, VE2SAI (514) 626-1889 eve. or 697-3273 day, or 744-7452
TALK IN VE2CWI 146.910 (-)

APRIL 13, 1996

The Durham Region (PICKERING) Hamfest at Toronto East Trade Center
Pickering, Ontario. Brock Rd., between Hwy 401 ex 399 and Hwy 2.
Info: Dave Herve, VE3UGV, Pickering ARC P.O. Box 53, Pickering Ont., L1V 2R2
416-447-0425 Packet: VE3UGV@VA3BBS or VE3UGV@VE3DAX
FAX:-(905) 831-5556
DAVID VE3UGV [44.135.89.40]
A X 2 5
VE3UGV@VE3DAX.#SCON.ON.CAN.NOAM.
AMPnet VE3UGV@VE3SBX.ampr.org

APRIL 20, 1996

NEW ENGLAND ANTIQUE RADIO SWAP AND SELL RESURRECTION CTR. 449 BROAD ST. NASHUA NH

APRIL 27, 1996

SYRACUSE, NY - LIVERPOOL ARC., NEW YORK STATE FAIRGROUNDS SYRACUSE NY
INFO:-AA2KK LARRY TAFT (315) 668-8219
EVENINGS OR LIVERPOOL ARC
PO BOX 103 SYRACUSE NY 13212
TALK IN 146.910 (+)

APRIL 28, 1996

RPI AMATEUR RADIO CLUB, W2SZ HAMFEST, RPI ARMORY 15TH STREET TROY NY
INFO:-CHECK THE WEB PAGE OR CONTACT JOAN WARREN KB2RQW VIA EMAIL TO WARREN@RPI.EDU OR ON THE RPI CLUB REPWATERS

4 MAY 96

SKYWIDE ARC HAMFEST (TORONTO), WESTWAY UNITED CHURCH, 8 TEMPLAR DR., ETOBICOKE, ONT.

VENDORS 8.00 AM. -- PUBLIC 9.00 AM.

TI 146.986 146.520

INFO VE3ZXD DERRICK POULTER 416-243-2020,

VE3WAY WENT WHEATLEY 416-233-6648

SKY ARC, PO BOX 36503 CLOVERDALE MALL, 250 EAST MALL, ETOBICOKE, ONT. M9B-6K9

4 MAY 96

SMITH FALLS ONT. AT LOMBARDY FAIR GROUNDS (Orange roofs), 8 km south of Smiths Falls on Hwy 15. 9 AM to 1 PM. Admission \$3. Tables \$10.

INFO: VE3BID DON SLATER, 613-283-3570,

VE3CGD ART CHILDERSHOE 613-283-9488

OR VE3CGD@VE3ICF TI 147.210+

4MAY96 OSWEGO NY. (no further info. at this time.)

May 3-4-5/96

Kingston, Ont.: Ontario DX Association will be holding their 1996

Annual Convention at the Holiday Inn, Ontario St., Kingston. Seminars start Saturday at 09:00. Sunday 10:00 tour of the Canadian Forces Communications and Electronic Museum at CFB Kingston. For more information contact: VE3ODX@VA3BBS via Packet or write to VE3ODX P.O. Box 161 Stn. A, Willowdale, Ontario M2N5S8.

Compuserve 73737,3453

I n t e r n e t

73737.3453@compuserve.com

Phone 905-853-3169

May 17-18-19/96

Dayton, Ohio: The Dayton Amateur Radio Association Hamvention 96 at the Hara Arena Dayton Ohio. Giant Flea Market, Exhibits, and activities for the Non-Ham. **You must have Advanced**

registration orders postmarked no later than May 3/96. Tickets ordered after this date will be held for pick up at the Hamfest Office in the Silver Arena. For information on Lodging, Special Award nomination forms, Handicap Parking, Call: 1-800-418-3676 or call the Fax, Mail, or BBS numbers listed below.

FaxMail: 513-276-6934 for info. sent to you via fax.

BBS : via America Online: Keyword "HAM", then "CONFERENCE", then "CONVENTIONS", then "HAMVENTION"

Phone : 513-276-6930 for fast service. Voice Mail Box numbers via Fax Mail or BBS.

Fax : (incoming) 513-274-8369

Mail : Hamvention, Box 964, Dayton, Ohio 45401-0964

E-Mail : Hamvention@aol.com or n8emo@ix.netcom.com

WWW : <http://user.aol.com/hamradclub/daytom.htm>

Adv. Admission: 12.00 ea

Grand Banquet: 23.00 ea

Sat. Luncheon: 9.00 ea

Sun. Luncheon: 9.00 ea

Admission at door 15.00.

Make checks Payable to: Dayton Hamvention and mail to Dayton Hamvention, Box 1446, Dayton, Ohio 45401-1446.

25MAY95

SAINT JOHN NB. FLEA MARKET AT LOCH LOMAND VILLA (LION'S CLUB LOCH LOMOND MALL, MCDONALD ST., (EAST)ST. JOHN N.B.

INFO SONNY BYERS VE9SW 506-652-7414, JIM DIXON VE9MHZ@VE9BBS

10.00 AM - 4.00 PM TI 147.270+

25MAY96

DOWN EAST FLEA MARKET, HALIFAX NOVA SCOTIA at EXHIBITION PARK, ATLANTIC WINTER FAIR GROUNDS, HALIFAX NS. PUBLIC 9.00 AM TI 146.850 VE1NZ

INFO TABLES:

VE1RCN DAVE MCHATTIE 434-7566

VE1AMJ DON DUNNINGTON 443-4132, 454-4433

VE1EGG ED GRACE 423-3327

VE2EAH ERIC DAY 443-2429

VE1ALS MURRAY ALARY 477-7568

26MAY96

1996 QUEBEC HAMFEST (SOREL/TRACY ARC)
 (SUN) TRACY QUE. VENDORS 6.00 AM.
 PUBLIC 9.00 AM. 145.370(-)
 INFO HAMFEST DU QUEBEC, C.P/ 533, SOREL,
 QUEBEC CAN. J3P-5N6 OR VE2DWE
 1-514-743-8676 OR VE3DWE@VE2CBS

31 MAY-2 JUN 96

ROCHESTER HAMFEST, ROCHESTER NY. MONROE
 COUNTY FAIR GROUNDS, ROCHESTER NY.
 TICKETS: AF2K J. GOODMAN, 515 DRUMM RD.,
 WEBSTER NY., 14580
 MAKE CHEQUES OUT TO ROCHESTER HAMFEST. Or
 payment by VISA or MASTER CHARGE

June 1, 1996

Montreal (Cote St-Luc) Que.: The Montreal
 Amateur Radio Club and the Cote St-Luc
 Amateur Radio Association will be jointly
 hosting the MONTREAL HAMFEST-FLEAMARKET
 and COMPUTER FAIR on Saturday, June 1,
 1996, at the Samuel Moskovitch Arena on
 6985 Mackle in Cote St-Luc.
 Cost of tables is \$15, entrance is \$4 a
 person. Open for dealers at 7 AM, for the
 public at 8:30 A.M. Talk in will be on
 147.270+.

This is a combined Ham and Computer Fair
 with dealers from the Ham and Computer
 industries participating, as well as
 Internet providers on site. The
 fleamarket will have used equipment from
 both the Ham and Computer communities for
 sale as well.

For more information, or table
 reservations please contact either:
 Harry Glanz, VE2 GJ, at (514) 335-5728 or
 74262.151@compuserve.com Gerry Phillips,
 VE2 XGP at (514) 273-9171 or
 74471.3005@compuserve.com

Jun. 01/96

Owen Sound, Ont. Public: 9:00 - 16:00,
 Vendors: 6:30

The Georgian Bay Amateur Radio Club is
 proud to present their first annual
 Communications/Electronics Hobbymarket.
 Interest groups include:
 Amateur Radio, Computer, Internet, Solar
 Power, Antique Radio as well as many

others. This will be held at the
 Bayshore Community Centre (Bayshore
 Arena) 1900 3rd Ave. East, Owen Sound,
 Ontario.

Admission \$4.00 Children under 12 free.

Commercial	Tables	Non-Commercial
-----	1st	15.00
50.00	2nd	15.00
-----	3rd	20.00
100.00	4th	-----

TABLES BOB VE3XOX 519-376-8060, or JACK
 519-371-3439 For inquiries contact
 VE3WUD Richard Welch at 1-519-934-0320 or
 write to:

The Georgian Bay Amateur Radio Club, P.O.
 Box 113, Owen Sound Ontario N4K5P1.
 Talk in Freq. (146.895 -), (146.940 -),
 (145.290 -).

June 8, 1996, Ottawa Ontario

OVMRC flea market is scheduled at
 Algonquin College, Lees Ave. Campus.
 Contact Ed Strange, VA3CEJ at 828-4804
 for more info.

Jun. 15/96

Marmora, Ont. Public: 9:00 - 14:00
 Vendors: 7:00

The Eastern Ontario Hamfest and Computer
 Flea Market will be held at the
 Marmora Curling Club, Crawford Dr.,
 Marmora Ont.

Admission \$ 3.00

Tables \$ 10.00

Tailgaters \$ 6.00

For more information contact: Pete VA3PGB
 at Phone: 613-473-1171

Packet: VA3PGB @ VE3HQR.#econ.on.can.noam
 or Paul VE3UUM at 613-472-3449 or Packet:
 VE3UUM @ VE3HQR.#econ.on.can.noam.

Talk in freq. 145.330 - 600

or Simplex 146.520

GROUNDWAVE SWAP SHOP

This space is available free to members to post their "ads". If you'd like to post a sale or want item, you can reach me, Ed, VA3ES, at the club meetings, or you can call it in: Telephone: 738-8924, packet: VA3ES@VE3KYT.#EON.ON.CA.NA.

WANTED

Heathkit Amateur Radio items and older Heath catalogs (U.S. and Canadian), and manuals. Also looking for older Radio Shack catalogs, Lafayette and Allied catalogs. Contact: Carl Morin, VA3CGM, at 523-8792

FOR SALE

1. TRIO/KENWOOD Oscilloscope, Model CO-1303G. Contains built-in two-tone generator, and RF monitor. Very Clean, complete with manual. \$195.
 2. Lafayette Receiver, Model KT-340. 550 KHz - 30 MHz. Bands spread on 80/40/20/15/10 meters. Built-in BFO, "Q-multiplier" and noise limiter. Very clean with manual. \$65.
 3. Low Pass Filter, 50 ohm, MFJ-704. 1 KW. New, sealed in box. \$30.
 4. Eimac Tubes: 3-400Z and 4CX350A, several of each. Unused. each: \$60.
 5. Table-top Rack Cabinet, Hammond. 20"W x 13"D x 8"H. Very clean, original Hammond Grey paint. \$35.
- Contact Brian Summers, VE3JKZ 613-523-1535, concerning these items.

WANTED

Modulation transformers 500 W - 1000 W
Modulation reactors (chokes) 30 HY or higher, 500 mA or higher.
Contact: Ed Sieb, VA3ES, at (613) 738-8924

ASSORTED SPLATTER FROM AROUND THE BANDS...

A Shocking Tale...
de Owen Dowd, VA3PD

I have an 80-meter dipole which, at its' centre, passes among branches of a birch tree. A piece of Plexiglas is used as an insulator in the middle of the dipole. One windy evening shortly before Christmas, my wife came in and told me that my antenna was flashing at the centre and making a crackling sound!

Alarmed, I immediately disconnected my antenna from the station and grounded it, using one hand. No sparks came from the transmission line as I grounded it. I went back out and looked at the antenna and found it exactly as my wife had described it. I had in the past had some static electricity from snow, but there was no snow fall that evening. Also, I wondered how so much static could be generated in the antenna.

I called my brother-in-law, who is a communications engineer, and asked him to talk to the people where he worked to see if anyone could explain such a phenomena. About an hour later, my brother-in-law was at the door.

"I Think I know what's wrong" he said. "When the wind blows, the Plexiglas insulator reflects the lights from nearby houses. The crackling sound is only the loose bark from a birch tree scraping as it blows in the wind."

Mystery solved!

HATE MESSAGES ON PACKET

A disturbing situation is developing on the packet systems. It appears that one or more neo-Nazi hate mongers from outside North America are showing their disdain for "foreign" and minority cultures with world-wide postings that support genocide for several ethnic minority groups.

The messages all have headers and call-signs from various European nations, but other postings indicate that the calls from these alleged stations are mostly pirated. The audit trails of these messages, (the lists of packet sites relaying these messages) all seem to have a common forwarding point out of South Africa.

The bulletin identifiers of these racist nasty-grams are: "help dxcc", "DX News world-wide" and "new virus". All contain the same or similar racist text.

While hams are understandably upset about these messages, there is little they can do. This is because of the automatic forwarding of packet radio and the reluctance of some system operators to censor or delete messages. As a result, there is really no effective way to stop hate messages, which are spreading around the world at the speed of light. (Of course, local SYSOPS can delete any message they deem unsuitable for distribution through their PBBS - ed.)

Via The Kilowatter, Kingston-Waterloo Radio Club, Oct. 1995

DID I HEAR WHAT I THOUGHT I HEARD?

Jasper Hogeweide, WOMUF
from Worldradio, March 1996

Back in 1959, when radios glowed in the dark, and phone meant AM, I had a home-brew transmitter with a Gonset converter

in the car. The modulation transformer was war surplus and had a speaker winding, as well as the normal modulation winding. A simple switch arrangement allowed me to use this second speaker winding to drive a weather-proof PA speaker hidden behind my front grill. The speaker power was about 10 watts and was quite effective! The transmitter itself only ran 15 to 18 watts.

My wife was licensed and quite active on 40 meters daytime, although she never met most of the hams she talked with on the air.

A job change caused us to move from Fullerton, California to Palo Alto. As we were driving up the coast she checked into her usual nets. One of the hams said he lived just off the highway and described his house and location and invited us to drop by. When we were only 4 or 5 miles away, we knew that groundwave would put in a good signal into his receiver, but we couldn't raise him.

We spotted his house easily and drove into the yard. When he didn't respond to our radio call, we switched over to the external PA speaker and gave him the same call. We expected him to come to the door, but when he didn't appear in 3 or 4 minutes we went up and rang the bell. When he finally appeared at the door, he was completely confused. He was staring blankly off into space and scratching his head. We introduced ourselves and he slowly recovered enough to tell what had happened.

He said, "I'd been on the air quite a while and decided to lie down and take a nap. I was sleeping when I heard my call as clear and plain as anything. I jumped up and grabbed the mike to answer, but after hitting the PTT button, I found that the transmitter wasn't on. I looked at the receiver and realized it wasn't turned on either! I just can't figure it out."

TRIVIA

What country has the greatest number of hams? According to IARU figures, Japan has the most with 1,300,000 licensed operators. The US is second with an estimated 632,000 operators. Canada has more than 41,000 and world-wide there are an estimated 2,600,000 hams.

de marcOgram, publication of the Montreal Amateur Radio Club Inc.

HOME-BREWING ART STILL ALIVE AND WELL!

April is traditionally the month we feature the skills and talents of our Members with a "home-brew night" at the April General Meeting. As expected, all the usual suspects will be there with their latest projects to awe and inspire us.

In an effort to provide some small measure of encouragement to our readers, we present the following technical article for your consideration. While the project which follows is not strictly "radio" oriented, it does never-the-less, rely on and is an example of the ingenuity and resourcefulness we Amateurs are so well noted for.

Oh, and one more thing... Neither the **Groundwave** Editor, The Executive or the Membership of the O.A.R.C. accept responsibility for any accidents, explosions, or damage caused by this contraption!

Hair Drier Made from Electric Toaster and Vacuum Cleaner

A simple but effective apparatus for drying the hair with a blast of warm air,



Drying the Hair by Means of Heated Air Furnished by an Electric Toaster and an Electrically Operated Vacuum Cleaner

or for other purposes where a supply of heated air may be required, is easily made from an electric toaster and a vacuum cleaner. A wooden box, large enough to contain the toaster, is lined with sheet asbestos, sodium silicate (water glass) being used to paste the asbestos paper to the wood. Openings are cut through opposite ends of the box and metal tubes inserted, over which the air tubes are fastened with light twine. The short air tube, or hose, can be made by sewing together the edges of a strip of closely woven cloth to form a pipe; the longer one is usually supplied with the cleaner. Another piece of tubing, which may be cardboard, is used at the outlet end.

The vacuum cleaner is placed on a sheet of clean cardboard, the nozzle elevated on one or two strips of wood, and the dust bag is removed, so that one end of the short tube can be slipped over the dust-bag nozzle and fastened. The toaster is placed inside the box, the box closed, and the current turned on; when the toaster is well heated, the vacuum-cleaner motor is started. The air entering through the vacuum cleaner is carried through the heated chamber and is delivered through the outlet tube on the opposite side.—H. A. Strickler, Buffalo, N. Y.

Our Bureau of Information will answer all inquiries on radio-instrument construction and operation.