

Ottawa Amateur Radio Club

# Groundwave

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Check out our Web Page: [www.oarc.net](http://www.oarc.net)

Feb 2003

By the time you read this, the 2003 Canadian Ski Marathon has passed into the books. The weather seemed to favour the hardy. Lots of wind and a bit of snow. Congratulations to all involved. I hope it went well.

With the passing of Ted Turner, VE3LV, an opening was created for a replacement director for the club. Tom Johnson, VA3WTJ, has stepped forward to fill the remaining time on the executive until the next election in June. Now is the time for some of you to consider stepping forward and assuming a formal position with the club. Some of the existing executive have been at it for more years than is necessary as a volunteer and I can assure you that the club will be hard pressed to fill their shoes should the decide to call it a day. A nominating team will be calling you soon.

Greg Danylchenko, VE3Y TZ, has once again taken on the chore of organizing the Hamfest for the club. Some of you should call him and volunteer your time.

The repeater is undergoing some work and it is hoped that the existing system will be replaced by the repeater hardware that is awaiting configuration. Stay tuned.

The IRLP is chugging away with little assistance. We do have some users who are failing to identify when using the system. Check the article on page 3.

At this writing I'm still not sure what the meeting this Wednesday will feature, but I'm sure it will be good.

The Amateur Radio Television repeater is alive and well at CJOH. Its about time someone started to use it. If you have a tunable TV that can reach channel 69 on the UHF band, look around. You might be surprised.



FEB MEETING 7:30, FEB 12 at Ottawa City Hall (Not sure what room)

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Ottawa Amateur Radio Club

# Groundwave

Feb 2003

Articles may be submitted for use in this publication provided that they portray events or activities that promote Amateur Radio. Letters and comments are also welcome. Submissions may be made by mail addressed to the Editor care of the OARC, or by e-mail to "editor@oarc.net". Deadline for submissions occurs on the last Monday of the month preceding any regular meeting of the OARC.

*Please support your local radio organisations. They support you!*

## Club Information

**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 Capitol 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 Richmond Room (2nd floor of the Old Teacher's College) of Ottawa City Hall (formerly Regional Municipality of Ottawa Carleton Headquarters) on Lisgar Street. Meetings commence at approximately 19:30 hours. Further details about each meeting is elsewhere in this publication.

**Executive Meetings of the OARC Inc.** are normally held on the first Wednesday of each month at 19:30 hours. Contact the President to confirm the date, time and place of the next meeting.

**The CAPITOL CITY FM Net** meets every Monday at 20:00 hours on the club repeater **VE2CRA** to pass traffic and to make announcements of interest to Amateurs in the National Capitol Region.

**The SWAP Net** is a service provided and conducted by Dan Reardon, VE3GUU. This feature appears on the Capitol City FM Net. To list items and make inquiries, call Dan Reardon at 721-3339 or e-mail him at ve3guu@igs.net. Also available on the web: <http://www.igs.net/~swap>

**The POT-HOLE Net** is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club and is conducted every Sunday at 10:00 hours on **3.760 MHz**. All amateurs are welcome to check in.

**The POT-LID CW Net** is an informal slow-speed CW net sponsored and conducted by Ed Morgan, VE3GX, and meets every Sunday, except during July and August, at 11:00 hours on **3.620 MHz**, to promote interest in CW and CW procedures.

**The QCWA CHAPTER 70 Net** meets every Thursday evening at 20:00 hours on repeater VE3TEL, **147.03** You do not have to be a QCWA member to participate.

**The 2M SSB Net** is sponsored by the West Carleton ARC. Look for it every Tuesday night (except the first Tuesday of the month) around 21:00 on **144.250**. It is very informal and vertical polarisation is encouraged.

*The Ottawa Amateur Radio Club bulletin "Groundwave" is published and distributed to club members by mail. Publication dates may vary but it is hoped that the bulletin arrives at its destination before the events listed in it have expired. The bulletin is not published for July and August when meetings do not occur. Every effort is made to provide accurate information in the bulletin, however we are all human and mistakes can be made. The OARC accepts no responsibility for any damages that may result from this. The opinions expressed in this bulletin are only those of the author.*

Voice (VHF) 146.94/146.34 100Hz output tone  
(UHF) 443.300/448.300  
IRLP Node 2040 146.94/146.34 (VE2CRA/VE3RC)  
(Code 411 for info) (Code 204 for activity)  
(Code 88 for time)

For further information please contact the Repeater Chair.

Note: The IRLP link not connected to ECHOLINK. Please do not try to connect using the alpha keys on your keypad. It just confuses the operator.

Note: The IRLP link is disabled during the Capitol City Net each Monday. It is disabled from 2000 to 2145 Mondays except for May to August when the link is disabled from 2000 to 2020.

### **VE3TEN**

Tuning in the beacon so that it makes sense requires you tune to **28.175** on cw and read the tone that is there . The spaces between the elements are the higher tone. If that doesn't work, tune to **28.175.28** on lower sideband for better results.



## Internet Radio Linking Project

### Minutes of the January General Meeting

January 8, 2002 19:30

The meeting was called to order by the president. There were 31 present including three guests - Adam and Ruth Hunt from the Canadian Owners and Pilots Association and Al McKinley (VE3AU). Ted Turner (VE3LV) was noted as a Silent Key. Ted had been an amateur for 65 years and was a director of the OARC.

It was moved by Harrie Jones (VE3HYS) and seconded by Clayton Jenkins (VE3CJB) that the minutes of the December meeting be accepted and the motion was carried.

Reports from the membership chair and treasurer indicate that there are currently 94 members and the finances are in good shape. The Ground-Wave editor is continually looking for interesting material for the newsletter.

Mike Kelly reported on the on-air Dec. 16 meeting to determine interest in developing a club project. There was considerable interest and ideas are being stewed. The most popular idea seems to be related to amateur television and the ATV repeater.

George Roach reported on the RAC Winter Contest on Dec 28. The club used the RAC call sign VA3RAC for this contest. 18 amateurs operated from 14 different stations to make the club entry.

Nominations for the Joe Norton award close in February. Please forward any suggestions to the executive or Richard Hagemeyer (VE3UNW).

Anyone who has any idea where the Articles of Incorporation for the OARC might be, please contact the president.

Peter Gamble announced that there will be a meeting of EMERG Jan. 18 at 09:00 at the fire station on Industrial Avenue.

It was noted that the IRLP node had been down for a few days due to software troubles. It is now operating with additional features.

The most interesting QSO of the month goes to Dave Green (VE3TLY) who, after having operated his new HF station for a only week, logged a contact with Switzerland on 40m.

Our guest speaker for the evening was Richard Hagemeyer (VE3UNW) who spoke on the Canadian Ski Marathon (CSM) and the OARC involvement in radio communications for it. Richard has been coordinating communications for the CSM for the past ten years. He showed a promotional video on the CSM and related some interesting stories. Fortunately, he had passed around the sign up sheet for communication volunteers before we had seen the video and heard his stories. Anyone still interested in volunteering for communications at the CSM being held on Feb. 8 and 9, please contact Richard.

The 50/50 draw of \$23 was won by Croft Taylor (VE3CT). The next meeting will be held on Feb. 12. The meeting was adjourned at 21:35.

**Ian, VE3IGJ, Secretary OARC**

**There's always something** isn't there?! Last month I rebuilt the operating system then danced around while all the installed bugs were worked out of the system. Once the node was up I assumed that I had caught everything. Not so.

First thing I found was the invisibility of the CW identifier. It turned out that I had set the timer value to several days rather than several minutes. That meant that once of twice a week the system would generate the CW ID for the node and the repeater. Not legal I think. I reset it to once every 15 minutes when the system is active and 5 minutes after the last active session. That should be sufficient.

Next I was told that the DTMF tones were being generated over the Internet link to the remote node. Not good either. Usually the tone decoder detects the first tone then switches off the audio feed to the Internet so that only the local system will hear it. That wasn't happening. In fact the system was transferring the audio back to the active line instead of muting it off. The IRLP gurus on the Internet are still scratching their heads over that one. Conventional wisdom is that the sound card configuration and the LINUX audio mixer are at war. Changing the sound card may fix the problem but might give me more headaches with the configuration settings. Not what I need at the moment.

The ski marathon is going on this weekend so I might try to fix it then.

The plan for the link is to move it to UHF so that it can be a more effective system. We are moving to acquire a good 70 cm rig and install it here to replace to old IC-25/VHF Engineering set-up which has worked effectively for the past year. It is getting to the end of its useful life so this change should occur soon.

We have been having a rash of users who fail to identify themselves when using the link. This is not acceptable practice and will probably result in the node being restricted. I don't want this to happen. When I hear this going on I just shut the node down. I don't really think this is being effective either.

This activity seems to happen more after midnight so I am going to be shutting the system down from midnight to 7AM each day. I'm not happy about this but it only takes one bad apple to destroy the basket. If it happens during the day I might have to institute access codes. Also not something I want to do.

The weather announcement hasn't happened yet. Too many other projects on the go.

I did a cleanup on the computer system It is really impressive the amount of dust that can accumulate in one of these things. Anyone who has a computer should clean it out once in a while. If you want some information about what can happen, go on the web and go to the following site. I have written an article for the Department of National Defence Safety Digest about computers.

[http://www.vcds.forces.gc.ca/dsafeg/pubs/digest/11-01/art05\\_e.asp](http://www.vcds.forces.gc.ca/dsafeg/pubs/digest/11-01/art05_e.asp)

See you next month.

**VE3EV**



## MK's Words

### EMERG'n ACTIVITIES

**It has been** a busy month. It included another car rally, an Emergency Measures Radio Group meeting, a quick touch up on the VE3TWO repeater, a few contacts in the January VHF/UHF QSO party, a Ski Marathon meeting and an exam or two.

The rally went off very well, with the help of a lot of hams from the Almonte area. It's so nice to work an event where everything goes as it should. Thanks to all who helped out.

The EMRG meeting/exercise was a very nice piece of work. For those of you who missed it (EMRG and OARC memberships have a lot of overlap) the idea was to pack for a three day deployment with limited support. We all dragged in our stuff and compared notes, kit lists and packaging ideas. Everybody learned a lot. Note the new EMRG website, <http://www.emrg.ca>

Also in case you missed it, the EMRG portable repeater is up and running full time on 146.880-. There are now enough radio toys up and working that the repeater will likely stay on the air on that frequency while also supplying hardware for VE2CRA when it relocates for the Ski Marathon.

Speaking of the CSM, it looks like they are in good shape. Every year, a few new hams crack the line up and join the team. This year, several of the safety crew have taken the plunge and received their basic tickets, thanks to VE3UNW. Check out his CSM site

<http://206.47.37.125/csm>

or

<http://cpu1894.adsl.bellglobal.com/csm/>

to see the current shape of the radio end of things. Now all we need is for the weather to behave itself. (Saturday was clear, windy and -6 C)

This weekend I'm off to the wilds of VE2 land for the CQ 160 CW contest, and am missing a bunny hunt to do it. One thing you never hear about ham radio is that there is nothing to do.

73..mk VE3FFK

**The Ottawa Amateur Radio Club and the Canadian Ski Marathon wish to extend their thanks to the following people who helped make the 2002 CSM a success.**

- Eric Hinds
- Bob Speare, VA2RS
- J.P. Bouchard, VA3BJP
- Dean Denter, VA3CDD
- Marc Pichette, VA3DRV
- Raymond Laviolette, VE2HMA
- James Keep, VE2KHC
- Ed Strange, VE2MPP
- Stan Patacic, VE2QXP
- Ray Faguy, VE2SJA
- Sylvain Dionne, VE2SYQ
- Jeff Gagnon, VE2TBH
- Richard Bellisario, VE2TEE
- Steve Laughren, VE2TSV
- Duncan Breese, VE3BDC
- Clayton Jenkins, VE3CBJ
- Mike Kelly, VE3FFK
- Harrie Jones, VE3HYS
- Rick Furniss, VE3IHI
- Erik Christensen, VE3KIH
- Dave Harris, VE3KMV
- Eric Laforest, VE3LNX
- Neil Herber, VE3PUE
- Ken Halcrow, VE3SRS
- Jim Humphrey, VE3TKV
- Mike McKay, VE3UMC
- Harold Hamilton, VE3UNK
- Richard Hagemeyer, VE3UNW
- Gord Phillips, VE3XGP
- Tammy Jones, VE3XTJ
- Alan Macphee, VE3ZTU

**Thanks also go to the clubs who run the repeaters used and clubs whose repeaters take up the slack during the CSM weekend.**

## RAC Canada Winter Contest

As our last project for 2002 the Ottawa Amateur Radio club undertook to keep the Radio Amateurs of Canada Headquarters call VA3RAC on the air on all bands for the 24 hour Canada Winter Contest on the 29th of December.

With the help of several non-members we were able to put 14 Ottawa area stations on the air on every band from Top Band to 2 metres for most of the 24 hour period.

We made over 1500 QSO's. 608 were with Canadian Stations, 875 were with American & DX stations and 16 were with Radio Amateur of Canada stations in other Provinces. ( Only adds up to 1499 QSO's ?--We had 29 Dupes.) Our point total as a multi-transmitter/multi operator station was 635,200.

Congratulation to the following Radio Hams who pulled off this accomplishment: VA3's ELB, JBS, KA, WTJ, ZBB and VE3's BNO, CDG, CGO, CT, DZZ, EQE, EV, FFK, GX, HKG, IQ, NJH, TLY, XK, ZBB, ZRK.

**(Thanks to George VE3BNO for organizing the event!)**



## From DC to Green Light

### *The Hand That Rocks The Boat*

Cary Honeywell VE3EV

## Contest Calendar

(From the Winnipeg Amateur Radio Club Bulletin)

### February

10-10 Inter. Winter Contest SSB	0001Z Feb 1
Minnesota QSO Party	1400Z Feb 1
FYBO Winter QRP Field Day	1400Z Feb 1
Delaware QSO Party	1700Z Feb 1
Mexico RTTY International Contest	1800Z Feb 1
North American Sprint Phone	0000Z Feb 2
Six Club 2nd Winter Contest	2300Z Feb 7
CQ/RJ WW RTTY WPX Contest	0000Z Feb 8
Asia-Pacific Sprint CW	1100Z Feb 8
Dutch PACC Contest	1200Z Feb 8
YL-OM Contest CW	1400Z Feb 8
FISTS Winter Sprint	1700Z Feb 8
OMISS QSO Party	1700Z Feb 8
RSGB 1.8 MHz Contest CW	2100Z Feb 8
North American Sprint CW	0000Z Feb 9
QRP ARCI Winter Fireside SSB	2000Z Feb 9
ARRL School Club Roundup	1300Z Feb 10
ARRL Inter. DX Contest CW	0000Z Feb 15
YL-OM Contest SSB	1400Z Feb 15
CQ 160-Meter Contest SSB	2200Z Feb 21
REF Contest SSB	0600Z Feb 22
UBA DX Contest CW	1300Z Feb 22
North American QSO Party RTTY	1800Z Feb 22
Russian PSK WW Contest	0000Z Feb 23
High Speed Club CW Contest	0900Z Feb 23
North Carolina QSO Party	1700Z Feb 23
CQC Winter QSO Party	2200Z Feb 23

### March

ARRL Inter. DX Contest Phone	0000Z Mar 1
Open Ukraine RTTY Championship	2200Z Mar 1
DARC 10-Meter Digital Contest	1100Z Mar 2
SARL Field Day Contest	1000Z Mar 8
RSGB Commonwealth Contest CW	1000Z Mar 8
North American Sprint RTTY	0000Z Mar 9
UBA Spring Contest CW	0700Z Mar 9
NSARA Contest	1200Z Mar 9
Wisconsin QSO Party	1800Z Mar 9
YLISSB QSO Party SSB	0000Z Mar 15
10-10 Mobile Contest	0000Z Mar 15
BARTG Spring RTTY	0200Z Mar 15
SARL VHF/UHF Contest	1000Z Mar 15
Russian DX Contest	1200Z Mar 15
AGCW VHF/UHF Contest	1600Z Mar 15
Virginia QSO Party	1800Z Mar 15
Oklahoma QSO Party	2300Z Mar 21
CLARA and Family HF Contest	1700Z Mar 22
Spring QRP Homebrewer Sprint	0000Z Mar 24
CQ WW WPX Contest SSB	0000Z Mar 29

**It is near** the end of August, 1976. The summer has been really hot. Especially down the east coast of the US and Canada. It has also been very humid and windy. A very bad combination.

Alan Hooper, a graduate of the radio school at Red River College in Winnipeg, is wedged into the corner of an area normally used as a radio room in aboard the Newfoundland fishing schooner *The Norma and Gladys*. The room around him is a mess. Almost anything that isn't tied down is rolling around on the floor below him along with an unusual amount of sea water. Alan, his fellow crewmen and *The Norma and Gladys*, have just sailed into a full blown Atlantic hurricane!

In the summer of 1975 I was working for the Department of Supply and Services editing emergency supply manuals. This was my first job out of University and, perhaps, the only job where I was able to make use of my degree in Law and Political Science. Doug Burrill, ex- VE3CDC, had managed to get me hired on, more so that he had someone to talk to about CARF (The Canadian Amateur Radio Federation) rather than to have someone who could do anything more than find mistakes in thousands of pages of boring text. I grew to hating paper during this time. I still hate paper.

Working with us at the time was a Brit named Jim. He was in his late 50's and his main occupation there was sleeping. Or so it seemed. He was actually waiting for his transfer to External Affairs to kick in so that he could go on to more exciting activities. One of these was the organization of a world tour by a refitted Newfoundland fishing schooner called *The Norma and Gladys*. External wanted to augment the job being done by the *Bluenose II* by showing the world how fishing was really done in the past. *Bluenose* was too flashy so they decided to drop the visual presentation a notch or two... or three or four. Jim was trying to staff the various crew positions on the boat but had been stymied at staffing the radio op position. He needed someone who could not only operate the radio but could fix it as well, and who could also fix other things on the boat. He also needed someone young and fit. Believe it or not, he ended up asking me. I was about to be married so I had to decline. Hindsight being 20/20 I should have accepted, except that it would have been me facing the storm.

Jim asked me if I knew of anyone else who would be a good candidate. My first thought was of Harrie, VE3HYS, but Doug had already contacted Steve Chisholm at Red River College and a volunteer had been found. His name was Alan Hooper. Alan didn't have an Amateur license as yet, so part of his commercial training was the acquisition of an Amateur Radio license. Once his commercial license was obtained he could then operate SSB.

In early spring 1976 Alan started preparations for the voyage. He came to Ottawa to meet with myself, Doug Burrill and Art Stark VE3ZS. We found out at this meeting that he hadn't been given any radio equipment to work with even though he had been given a budget. Art and I contacted some local vendors and one or two Amateur Radio outlets in Vancouver and by the end of the day



equipment of all sorts and configurations were being shipped to Halifax for installation on the boat. Alan's main rig was a Yaesu FT101-E. Various dipoles and verticals were installed for several bands. Commercial VHF and HF rigs were also installed. By the time the boat sailed, Alan had just about every piece of Marine and Amateur gear that could be obtained on such short notice.

The tour took The Norma and Gladys on a, more or less, circular route across the Atlantic to the European coast, then down to Africa and back across to North America. The Northern route was taken so as to be in warmer climates during the return voyage. I think they planned on doing the Pacific run the next year. Several local Amateurs were tagged to keep in contact with Alan on 20 metres so that progress could be monitored. Several week long stops were planned in the major Atlantic seaboard ports in the British Isles, France, Portugal, Spain and so on.... But during the sailing periods, Alan had more than a few interested parties watching out for him. Some of the locals were Ralph Hindle, VE3BNH, Ron Belleville, VE3AUM, and other members of the "TopStar" group. Then there was me, operating VE3RC at the Central Canada Exhibition, by chance on 20 metres, one hot Wednesday afternoon in August. Alan had just entered the maelstrom.

On 14.140 I could hear Ron, VE3AUM, talking to Alan who was just readable over the static. It was obvious from what I was hearing that the boat was in a bad way. They just couldn't get out of the way of the hurricane fast enough to avoid being hit. Not being at the centre of the storm was almost as bad as being directly in its path. The boat was rocking and rolling so much that most of the crew who didn't need to be doing something, had lashed themselves to whatever they could find. The man at the tiller had lashed himself to it to avoid being thrown overboard and Alan had wedged himself between a large beam and the wall of the area where the radio was kept. This was close enough to the radios so as to allow him to keep in contact with the rest of the world. Despite all this, Alan seemed to be in control of himself. I guess having a friendly voice from home helped. Ron is pretty good at this sort of thing. He had been a major radio presence during the earthquake that hit Central America in the early 70's, so he had been here before. Charlie Grove, ex-VE3CT, was also monitoring the situation as were many other experienced Amateurs. I can think of no better assurance that things will get better than having that much experience talking to me and encouraging me on. I listened in fascination to the radio contacts and was able to talk to Alan a few times myself. In a way I felt responsible for him being there. And yet...in a way I wished that I was there. This is the sort of experience few people can say that have had. Once in a lifetime they say.

By the end of my shift, it seemed as if The Norma and Gladys had weathered most of the bad stuff with very little damage. No loss of life, but plenty of gray hairs. A few weeks later the boat put into a Canadian harbour and was given a once-over to see if any major structural damage had been done. It was then that they found the major area of dryrot. The tour was finished. For good.

There are times that I think about The Norma and Gladys. There are times I regret not having taken the opportunity that was presented to me in the fall of 1975. My friends have all told me that I should have gone. I didn't. But then there are other opportunities. One came by phone in March 1976. I took this opportunity and learned what a "Pingo" was.

VE3EV

## From ARRL Headquarters



**Shuttle Loss Fallout Affecting Amateur Radio in Space** (Feb 6, 2003) -- The future of Amateur Radio in space--at least in the near term--could depend on how fast NASA pins down the cause of the February 1 shuttle *Columbia* disaster and fixes the problem. With the shuttle fleet grounded until it does--and further International Space Station construction on hold as a result--attention is turning to the well-being of the all-ham ISS Expedition 6 crew of Commander Ken Bowersox, KD5JBP, Don Pettit, KD5MDT, and Nikolai Budarin, RV3FB. Three of the *Columbia* astronauts also were Amateur Radio operators.

**VOA Site Restoration a Major Ham Radio Project** (Feb 5, 2003) -- Ham Radio operators north of Cincinnati, Ohio, are playing a key role in preserving a landmark element in the development in radio communications--the main transmitter relay station for The Voice of America (VOA). For 52 years, until it was decommissioned in 1994, the major VOA relay station was located in Bethany (now West Chester Township). Hams traveling Interstate 75 to the Dayton Hamvention often found themselves distracted by the site's vast antenna farm as they passed by. Plans are under way for the transmitter building, now owned by the township, to become a major radio technology museum that will key on the VOA's mission to broadcast the truth to those living in countries that tried to suppress it.

RAC has not been sending out any news or bulletins over the past few weeks. Information and bulletins on their web site also seem to be absent. Once they return to normal operation we will restart reporting stories from RAC.



VE3EV

Club members did donate articles for this edition. Unfortunately one needed to be transcribed from written text and the other was copyrighted material which I couldn't run.

# MEMBERSHIP APPLICATION / RENEWAL

## Ottawa Amateur Radio Club, Inc.

Box 8873 Ottawa, Ontario K1G 3J2

Renewal  New  New Ham (FREE if licensed in current membership year)

Single (\$20 (\$15 after 1 Feb))  Family (\$25)  Junior (\$10)

(Please note: membership year is 1 September to 31 August)

Family Name: \_\_\_\_\_ First Name/Initials: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ Prov: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Work Phone: \_\_\_\_\_ ext \_\_\_\_\_

E-mail address: \_\_\_\_\_@\_\_\_\_\_

Callsign(s): | \_\_\_\_\_ | | \_\_\_\_\_ | | \_\_\_\_\_ | Fax: \_\_\_\_\_

Qualifications:  Basic  Advanced  Grandfathered  
 5 wpm  12 wpm Year Licenced: \_\_\_\_\_

### Other Family Members

Name: \_\_\_\_\_ Callsign(s): | \_\_\_\_\_ | | \_\_\_\_\_ | | \_\_\_\_\_ |

Qualifications:  Basic  Advanced  Grandfathered  
 5 wpm  12 wpm Year Licenced: \_\_\_\_\_

Name: \_\_\_\_\_ Callsign(s): | \_\_\_\_\_ | | \_\_\_\_\_ | | \_\_\_\_\_ |

Qualifications:  Basic  Advanced  Grandfathered  
 5 wpm  12 wpm Year Licenced: \_\_\_\_\_

Name: \_\_\_\_\_ Callsign(s): | \_\_\_\_\_ | | \_\_\_\_\_ | | \_\_\_\_\_ |

Qualifications:  Basic  Advanced  Grandfathered  
 5 wpm  12 wpm Year Licenced: \_\_\_\_\_

Interests: \_\_\_\_\_  
\_\_\_\_\_

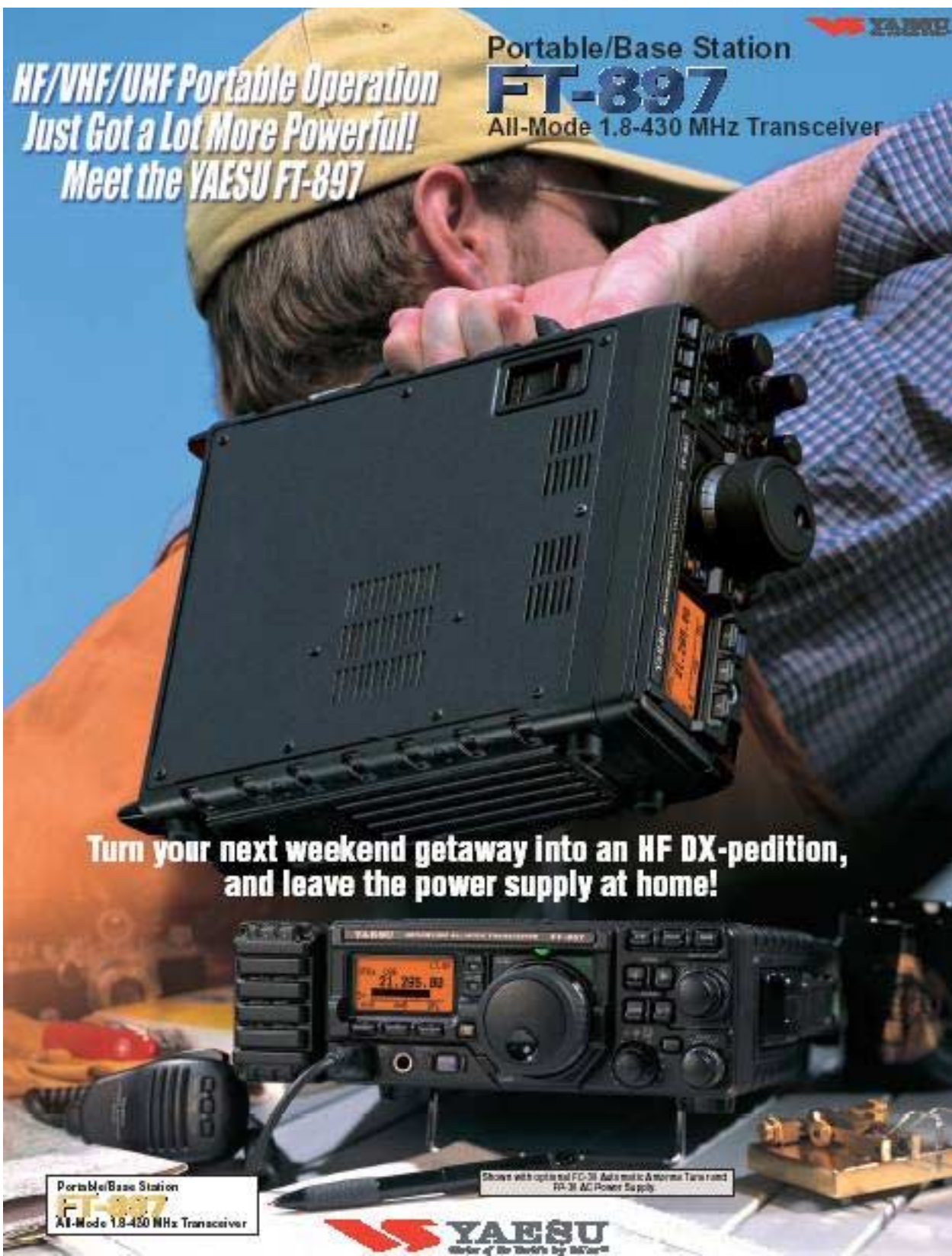
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