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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 Ottawa regional area and to the advancement of the technical competence and achievement of Club members.

THE CAPITAL CITY NET meets every Monday evening at 2000 hours on the Club repeater VE2CRA (146.34/146.94) to pass traffic and to make announcements of interest to Amateurs in the Ottawa regional area.

THE SWAP NET, a service to the Ottawa Valley Mobile Radio Club Inc., is repeated on the Capital City Net and is conducted by Ed Morgan VE3GX. To list items or make enquiries, call Ed at 733-1271.

An ENGRAVING PENCIL is available to Club members to mark their valuables for positive identification in case of loss or theft. For further information, contact Penny Robinson VE3ERO at 225-1276.

HOSPITAL VISITATIONS to any Amateur confined to the Civic Hospital will be made by Maureen Neill VE3FZY. If you know of any amateur confined there who would appreciate a visit, call Maureen at 725-4748 during the day or 233-9941 after 1730 hours.

SEE YOUR NAME IN PRINT!!-- in National and International publications. Write an article for the GROUNDWAVE and watch it travel! Many local articles have been reprinted in Club bulletins across North America. DEADLINE FOR COPY for all articles and announcements is the second Wednesday of each month.

REGULAR MEETINGS of the OARC, Inc. are held on the first Wednesday of each month (except July and August) at the National Research Council Auditorium, 100 Sussex Drive, Ottawa, at 2000 hours. A bulletin board is available for posting notices of interest to other members about 1915 h. For further details on the next meeting, see page 5.

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

THE OARC EXECUTIVE normally meets on the second Wednesday of each month in the Board Room of CFRA, 150 Isabella St., Ottawa at 2000 hours. Contact the president to confirm the date of the next meeting.

RENEW YOUR CARF AND ARRL MEMBERSHIP through the OARC to save money order and postal charges, and to help your Club. Contact the Treasurer for further details (see back cover).

SAFETY BELTS AND TWO METRE RIG are available for loan to club members. The two metre rig may be borrowed by members who must be hospitalized, and the safety belts and pole straps by any member (a \$100 refundable deposit is required for the latter). For the belts, contact Paul VE3ICV at 820-6643 if you live in the west end or Brian VE3JKZ at 523-1535 in the east end of town. Contact Brian for 2m rig. RADIO AMATEUR CALL BOOKS are available for use at the Orleans, Nepean, downtown and other city libraries. Enquire at the information desks of your local library for further information.

MINUTES OF THE OTTAWA AMATEUR
RADIO CLUB, INC. 2 September 1981

Brian VE3JKZ, President, opened the meeting at 2005 hours and welcomed several visitors, inviting them to sign the guest list at the coffee break.

The minutes of the June meeting were adopted as published in the GROUNDWAVE on a motion by Bill VE3BDO seconded by George VE3DMC.

A black and white mock-up of the National Capital Award was put on display. The actual award will be in colour.

It was reported that the Ottawa Exhibition Station, VE3NCR, was a success despite poor antennas and an S9+20 noise levels! Harry VE3HYS was the organizer. Brett VE3JLG reported that the station was operated 110 hours by members of OARC, Ottawa West Carleton Club, OCU club and OVMRC. Several aspects of ham radio were demonstrated including SSTV and an Apple computer display of CW readout. The HF station was an SB104 with an 80 meter dipole and a vertical. There was also a packet radio display with a link to Montreal and Howie VE3JDZ reported that George VE3BNO had supplied a cassette slide show on amateur radio. There were several handouts available to visitors. The OARC ended up supplying operators for at least four additional days over the one planned. All the operators were thanked for their help. It was recommended that if a station is set up in future years, there should at least be a small beam set up.

With regard to business arising from the minutes, the membership was informed that a letter of regret was sent to the CRRL concerning the termination of the club's EC as the local ARRL EC and expressing the hope that the new appointee would cooperate with the Club EC, Ken VE3IHX.

George VE3BNO reported that he has been persuing the purchase of a new 430 MHz repeater for VE3CRA. We

cannot afford the purchase of a new one from the US, which would cost about \$1700. Parts are now on order from Oshawa which would allow us to assemble a controller for the system. We are looking for a surplus MICOR rig made by Motorola. George is also looking for assistance in laying out the printed circuit board for the controller.

An addendum has been printed for the Club Directory which includes those who were inadvertently missed in the originally published version, as well as new members.

There was no Club picnic this because of a lack of response to announcements on the Net.

Field Day was a resounding success with several new operators and a final score of 5626--150 higher than last year. A slide show of the activities has been put together by Bob VE3MPG. Unfortunately, the slide projector requested from NRC for the meeting was not available, so these will have to be shown at a later date.

Bob Bigras of Shinerama explained that a group of High School, College and University Students raise funds for Cystic Fibrosis research by shining shoes throughout the city. The Club provides commirications for the students. A list was provided to volunteers to sign for this event, which will be held on September 18th and 19th. More operators will be required this year.

Ken VE3IHX reported on communications for the Central Canada Exhibition Parade. Despite previous arrangements to have an operator located at the Police headquarters, the arrangements were cancelled at the last minute. This resulted in a twenty minute delay in reaching the police when an accident occurred. The Club will be notifying officials that in future, unless a direct link to the police is provided, the Club will not continue to provide communications. The Club will be sending a letter to Ex officials thanking them for the free booth supplied this year.

MINUTES--Continued

Bill VE3BDO reported on the work of his committee looking into the provision of an amateur radio news service comparable to WESTLINK News. Because of only minimal interest in the concept, he moved that the committee be disbanded. George VE3BNO seconded the motion, which carried.

Brian VE3LBX at 829-7340 is looking for volunteers to assist with the annual Club Flea Market and Auction to be held at Canterbury High School on Saturday October 24th from 0900-1700 hours.

Three years ago, the Club instituted an Award for the Outstanding Amateur of the Year Award. In the first two years, the Award was won by Bud VE3UD and Doug VE3CDC. The Award was not given last year. Brian VE3JKZ called for nominations in writing for this year's Award.

Brian VE3JKZ reported on the Buddy system, being looked after by Laird Gordon. At present, fourteen aspiring or new amateurs are taking advantage of the system. Brian pointed out that this is intended to give advice and guidance to the newcomers, but that it is not intended to provide "private tutoring" or an alternative to the many courses offered in the region.

Brian VE3JKZ reported that at present, there are 311 Members and that 40 complementary GROUNDWAVE's are sent to other Clubs in exchange for their bulletins.

Fred VE3IO, Chairman of the EMI Committee reported that he had a polaroid picture for VE3KIF taken at the last EMI Clinic, and that someone had left a fuse behind. He also reminded the Members that he still has three inch and eight inch toroids for sale at \$0.75 and \$3.00 respectively, as well as ferrite beads at \$0.15 each. Fred had no other activity on which to report at this time.

A member reported that contrary to what was printed in the September GROUNDWAVE, CARF does indeed give affiliated Clubs a portion of the Club dues collected by a club on their behalf. Brian VE3JKZ stated that Bill VE3NR had informed him that this was not the case. The member suggested that the Treasurer should contact Ron Walsh of CARF to clarify this point, and that Bill had been misinformed.

Brian gave a particular welcome to two out of town visitors, Marshal from London and Brad WA4YVM.

John VE3CXL spent a month in St. Pierre-Miquelon this summer-- ostensibly to improve his French. He gave an interesting, humorous talk on "the World's Most Poorly Planned DX-pedition". Despite his many difficulties, John managed 295 QSO's, operating FP7GNS.

Murray VE3JSO announced that all copy for the October Groundwave had to be in his hands by September 2nd, and also that he was looking for a new Assistant Editor. (After the meeting, Gord VE3JMT volunteered.)

Brian VE3JKZ reminded the members that the next meeting to be held on October 7th would be the annual Home Brew Night. Bring your latest or best home-brew project, whether complete or not. There will be prizes for those judged the best.

Paul VE3ICV gave a very informative talk on the QRP rig which will soon be a Club project. The design is based on an article which appeared in the August 1980 issue of QST. The receiver performs exceptionally well. Paul measured a sensitivity of 0.5 microvolt. The rig is very compact and uses readily available parts. John VE3HPW added that his prototype has a sensitivity of 0.25 microvolt and that it is insensitive to interference signals of 1 volt just 10 kHz from the receiving frequency.

The meeting adjourned at 2200 hrs.

NEXT MEETING

The next regular meeting of the Ottawa Amateur Radio Club, Inc. will be held on Wednesday October 7th 1981 in the Auditorium of the National Research Council, 100 Sussex Drive, at 2000 hours. The bulletin board will be available for notices at 1915 hours, so come early and have an "eyeball" QSO with some of your fellow members.

The featured event of the evening will be the annual Home Brew Night. Bring along your latest project. A plaque will be awarded for the best entry, and there will be other prizes.

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OARC FLEA MARKET/AUCTION

Saturday October 24th 1981

Canterbury High School

The organizer for this annual event is Brian Barsalou VE3L BX, telephone: 829-7340. He needs volunteers to help with coffee and refreshments, flea market tables, auction, etc.

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THE OTTAWA AMATEUR RADIO CLUB

"BUDDY" SYSTEM

Many people whilst studying a particular subject have felt the need for assistance outside the formal classroom. It may be for additional coaching on a topic which was not quite understood the first time, or perhaps to clarify a topic which is being struggled over whilst studying at home.

In the case of Amateur Radio, passing an examination is but the first step in what can become a myriad of seemingly contradictory advice and guidance. Putting a station on the air, correctly adjusting the transmitter and making that first contact is quite different than reading

about it in a book or magazine. Trying to understand the pros and cons of different types of antennas can be confusing indeed. In many cases, the need for assistance is desperately sought after.

The Ottawa Amateur Radio Club, Inc. therefore instigated what has become known as the "Buddy" System. The purpose is to assist would-be and beginning amateurs who feel the need for some advice and assistance as described above.

There are many members of the club who have volunteered their services, and some two months after starting the system, there were fourteen would-be amateurs taking advantage of the help available.

As with any system such as this, misconceptions can arise. There have been instances recently where two people wishing to become amateurs were under the impression that a club member would provide all the personal training and tutoring needed to obtain a licence. While there may be Club members willing to do so, this is not the intent of the system which the Club has instigated, and it would be unfair to all concerned to assume that this is the case.

The purpose of the OARC "Buddy" System as envisaged and planned is described in this article. Let's make sure that all concerned are aware of the guidelines so that no further misconceptions can arise. It is a great way for experienced amateurs to help out those trying to get a start in this fascinating hobby of amateur radio.

If you feel the need for some assistance, or if you are willing to act as an advisor, call Laird Gordon at 746-8409. He is the club coordinator for this project.

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Correction to Page 2: Ed Morgan's telephone number is 733 1721.

THE YL HERITAGE (Concluded)
(by Luoise Moreau WB6BBO)

The majority of the telegraphers of the Deseret telegraph ~~was~~ was installed in Utah in the late 1860s to maintain communications of the Mormon church were YLs. Would you believe that some were involved in Indian attack? They handled dispatches that now sound like a Hollywood script of new mines discovered, court proceedings, railroads, sotrms, arrests and grasshopper plagues. Messages like "keep a good lookout, saw smokes today". Another: "two Indians seen today, others prowling, radd may be impending." And still another: "Stagecoach was robbed by masked men, one passenger shot." One of these women was chosen to be Brigham Young 's personal telgrapher on one of his trips around the state.

So far as I can find, there is no record of dedication to duty and sacrifice of life in maintaining the communications link between a stricken community and the outside world before 1889. There may be, but up to now the first one that I can find is a woman. The story of the disaster in Johnstown, Pennsylvania, May 24, 1889, is well known. But what is less known is the story of three women and the part they played. Mrs. Hettie Ogie was office manager of the Western Union in Johnstown and her daughter Minnie was her assistant. Mrs. Ogie remained in the office that day, keeping in touch with the towns throughout the valley and into the Pittsburgh area, giving reports of damage, for there were flooded conditions before the dam broke. She sent the two men operators home to be with their families. Her final dispatch to Pittsburgh was grimly prophetic: "The South Fork operator says the dam is about to go. This is my last message." The building housing the office was completely destroyed and both Mrs. Ogie and her daughter were victims of the flood. Their bodies were among the 777 "unknown dead" for they were never

identified. In the wreckage where the office had been, there were only two salvageable objects: Mrs. Ogie's wedding ring and a telegraph key.

Many stories of heroism of operators, OMs all who remained on duty at the risk and often the cost of their lives are a part of the tradition of communications; but until we can uncover earlier documentation, May 31, 1889 is the first of a long history of communications people.

There is a happy side to the story. The telegrapher at the Pennsylvania Railroad tower at South Park Penn., was also a YL, Miss Emma Ehrenfield. Emma was on duty as usual that day and her Western Union counterpart was keeping in touch with the other towns along that line, sending them dispatches of the condition of the dam and receiving information of storm damage to the right of way. Now for those of you who are unfamiliar with RR telegraph, the picture may be a bit clearer if I explain that a signal tower is built on two levels with a stove and tools on the ground floor and above it the telegraph office. It was a cold day and the men who were checking the track damage had built a roaring fire in the stove. It got too hot and when Emma came down to cut the heat, she looked out and saw a 71 foot high wall of water coming down the valley. She picked up her seven petticoats (nice girls wore seven petticoats) and she raced across the tracks and up the steps of a coal tippie and turned to see her tower swept away by the flood.

Marconi, unlike Morse, listened to the letter "S" on December 12, 1901 without any feminine touch for radio began in a purely stag atmosphere but not for long. Five years later, the first YL was a commercial operator at NY in New York. Three years after that, Miss Lillian Todd was advisor and sponsor of the Junior Wireless Club of America. From her guidance came such names as Edwin Armstrong and Paul Godley. The next year, 1910, the first YL amateurs were on the air using the calls

FN --- a Miss Glass in California and an Olive Hearberg in New York. By World War I, there were 13 YLs with amateur radio licenses and over 30 others with commercial licenses as marine operators. The war didn't stop the interest of radio minded women. Many went to wireless schools and then into the Signal Corps. After, when amateur privileges were restored, we find the gals busily working the spark rigs again.

Oddly enough, all amateur operation by YLs until 1924 was by women in the U.S.A. with one exception. In 1913, the call IXI was issued by the Government Post Office in England to Mrs. Ingram for a transmitting license. In 1924, Canada's first YL made her appearance. The year 1925 opened Europe with Sweden's first lady; 1926, Brazil; 1927, Peru; 1928, France. We have a great heritage, going back almost 2000 years.

(The above article was taken from a speech to the Ontario Trilliums. The speaker, now W3WRE, wrote the YL page in QST up until last year when she retired. She is also a collector of antique telegraph keys.)

PSYCHOLOGY OF JAMMING

A different approach to the problem of deliberate interference was taken by the Fullerton (CA) Radio Club when the "Psychology of Jamming" was presented at a recent meeting. Dr. Roberta Trieschemann, a clinical psychologist, told the group about the motives of those who maliciously cause QRM and the best way to get them to stop.

Dr. Trieshemann started out by commenting that interference problems on Amateur Radio seem to parallel our entire society's "me first" attitude where etiquette and consideration for others is on the wane. Also, the anonymity of being a jammer provides a convenient way for frustrated hams to react to the sense of powerlessness they may feel about other areas of their lives.

She had the following suggestions for counteracting jamming:

(1) Don't respond. Even if only one person responds in some way, reinforcement and encouragement are provided to the jammer. Remember that he/she wants attention. You won't hear jamming on unbusy repeaters. No audience, no jamming.

(2) Reduce anonymity. Unless he/she has a specific vendetta, jammers usually don't jam people they know. Your repeater club or other local ham group should reach out and encompass all users and active hams. Who knows, you may turn a jammer into a productive ARES member.

(3) Support the FCC. Letter writing at the national level may get the funding they need to combat interference successfully.

(4) Set an example. Put articles in your club newsletter on proper procedure and common courtesy. Make sure your own operating procedure is beyond reproach.

de WA6JFP, Worldradio

DX INFORMATION

The United States Department of State publishes a series of background notes on every country in the world and selected international organizations. There are a total of 160 notes which are updated regularly. Each note is four to six pages long and includes a map and concise information on the history, geography, culture, government, politics and economy of each country. The key word is concise and each section, though not long, has a large amount of interesting information. There is also a short section for potential visitors.

The notes are punched for a three ring binder and the complete set could easily sit alongside your radio for ready reference. A subscription (1 year, about 75 notes) is available for \$16 from the U.S. Government. For information, write to: Background Notes PA/PC, U.S. Department of State, Washington DC 20520. de KA6A, Worldradio

PRESIDENT'S COLUMN

We are now well into Fall, and it looks like a busy time for amateur radio activities. The DXers among us are looking forward to an exciting season, and the contestors are eagerly preparing for some major world wide events. DX looks to be promising--in early September, a ZL was worked on 40 metre 'phone with S9 signals both ways; a DU and YJ8 were heard on 20 metres with S9; and even a VK was heard faintly on 80 metres, buried deep in the static! Talking about 80, in mid-June, I worked two ZLs and a VK9, so don't be put off by talk that "80 is no good for DX in the summer". After all it's mid-winter in the antipodes, and their DX season is in full swing.

The OARC is also having a busy time. We came through the summer having done well at Field Day, thanks to the efforts of Bob VE3MPG. The Club presented a very comprehensive demonstration of Amateur Radio at the Central Canada Exhibition thanks to Harrie VE3HYS and Howie VE3JDZ, as well as the numerous operators who manned the booth and helped out. Arrangements for the Annual Flea Market/Auction are being handled by Brian VE3LBX. Coming up is Shinerama, the Christmas Santa Claus by radio, plus exciting programs for the monthly meetings. All in all, this is a very busy time of the year.

Will will soon be naming a nominating committee which will be seeking members to sit on the executive and to direct the Club activities for the year commencing in January 1982. I would like to suggest that you give serious consideration to the pleasure you obtain from your hobby and from belonging to this Club, and give a thought to the many people who give willingly of their time to make it all possible. Then consider giving something in return by volunteering to serve on the executive and working with your fellow Club members to ensure the continued success of the OARC, Inc.

73, Brian VE3JKZ

MINUTES-Errata

Inadvertantly ommitted from the Minutes of the September 2nd 1981 meeting of the OARC, Inc. was the following paragraph, which should have followed the report by Paul VE3ICV on the QRP rig:

Doug VE3KKB gave a most interesting talk on the art of contesting, and on the efforts of the local (Perth) Contest Association. Contests can be fun, can improve your operating skills and can even give you the opportunity to work new DX countries which rarely appear except for these events.

LETTER TO THE EDITOR

The Editor:

I have just concluded reading the latest GROUNDWAVE and I noticed a reference to our KWARC Newsletter. It appeared a bit confusing and knowing how we editors are always on the "scrounge" for copy, I thought a brief note might find a place in a future issue.

The Kitchener-Waterloo Amateur Radio Club, Inc. first became semi-computerized about 3 years ago when I became the proud owner of a Radio Shack TRS-80 Microcomputer. At that time, my system was \$k Level II, but I quickly upgraded to 16K when I saw how much work could be saved by computerizing the Club's membership list. A high speed matrix printer was used to prepare mailing labels and year-end invoices for dues within record time.

The Electric Pencil for cassette based systems became available, so we then saw our Bulletin prepared using my dot matrix printer. Of course the quality was not all that good and we were restricted to upper case only.

--Continued on Page 9

Letter -- Continued

A floppy disc was the next purchase, which allowed easy storage of the complete bulletin. In fact, a single diskette could hold about 6-8 months of text by using both sides. The next breakthrough came when our local TRS-80 Users' Club had several members from the University of Waterloo systems group produce a micro-support routine on the University's IBM-370. This supported mail and program storage and/or exchange. One of our KWARC members, Dave Allen VE3DUA, has access to an AES Word Processor with communications capability allowing it to access the IBM-370. It also features a high quality daisy-wheel printer. Now, all Bulletin text is prepared with my TRS-80 using Radio Shack's "Scripsit" and transmitted by telephone to the 370. When Dave has time, he calls up the IBM, brings the text into his system where it is formatted and printed, camera ready.

I trust that this letter (which was prepared using this system) will help you understand better what we are attempting here. Drop me a line if you wish more information. If you have a CMS account at U of W, I will send information on accessing the Micro Support System, which has Datapac capability.

73, Paul Cassel
VE3AVY, Editor,
KWARC Bulletin

ARRL MEMBERSHIPS

Effective mid-October, 1981, ARRL Membership (including subscription to QST) will increase (except for those over 65) from \$30 for one year to \$36. Current rates for two and three years respectively are \$59 and \$87. OARC members may take out membership, or renew, at the current rates by sending a cheque payable to the OARC, Inc. to Lloyd VE3AYE, or by giving it to him at the next meeting. For renewal, please include a mailing label from a recent issue of QST.

1981 RSO CONVENTION

The 1981 RSO Convention will be held at the Waterloo Motor Inn, Waterloo, Ontario on October 2-4. There will be a Gemutlichkeit Buffet Dinner Friday evening with entertainment and dancing. The price is \$6.50 each, or \$3.50 for entertainment and dancing only. The Saturday Banquet is \$18.50 each and it will be followed by dancing to a twelve piece orchestra. The Ladies' Program registration is \$6.00 and includes a bus tour. A Buffet Luncheon (pool-side) will be an additional \$4.50. Registration is \$8.50. For more information, or to register, write to:

RSO Convention Committee
P.O. Box 2261, Station B
Kitchener, Ontario, N2H 6M2

EMERGENCY COORDINATOR

In May 1981, L. P. Thivierge VE3GT (ARRL SCM, Ontario) wrote to the Club Emergency Coordinator, Ken VE3IHX, informing him that his appointment as local ARRL EC would not be renewed as "a non-partisan operation" was being stressed in our area. At the June meeting, Ken's appointment as Club EC was confirmed. The following letter was sent to ARRL by Brian VE3JKZ, President.

Dear Larry:

I wish to thank you for calling me recently concerning your decision not to renew the appointment of Ken Kendall VE3IHX as Emergency Coordinator for ARRL. The postal strike has delayed my mailing this letter.

It is regrettable to many members of this club that Ken is not being endorsed by the League. We in OARC feel that he is making substantial progress towards coordinated communications in the event of an emergency.

As an ARRL Affiliate Club with over 300 members, our prime concern is that should the necessity arise, all amateurs will work together in an efficient, effective, well managed group of competent communicators.

CORRECTIONS TO DIRECTORY

1. On page 4: National Repeaters
Add VE3RBC (Autopatch) 147.99 (In) 147.39 (Out)
2. On page 6:
Add "P" for Pioneer Amateur Radio Club.
3. On pages 10 and 29:
Add "O" for OARC to Jean Bertrand VE2DZY
4. On pages 14 and 29:
Delete Jean Bertrand VE3DZY
5. On page 26: Gloucester and Orleans Fire Department
Change telephone number from 822-2343 to 741-1211.

LT. Ouse 19 Fleurette St. Ottawa, Ont. 746-4890	VEGGC	Vince Heaton 2197 Tawney Rd Ottawa, Ont. K1G 1C3 733-5162 239-9575	VE3IKH
Jim Fraser 606-2000 Iamline Cres. Ottawa, Ont. K1V 8K4 746-9866 741-9402	VE3PY	J. Kraemer 33 Downriver Cr. Ottawa, Ont. K2G 0M4	VE3IKC
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John Wallace 11 Philip Dr. Nepean, Ont. K2E 6R6 224-6143	VE3DW	Yuan Perron 1822 Applegrove Court Ottawa, Ont. K1J 6S5	VE3Q7
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Gilles Martineau 349 Gladstone St. Hawkesbury, Ont. 632-6884	VE3GM	Moe Grant 908-1244 Donald St. Ottawa, Ont. K1J 8V6 746-3696 963-7767	VE3MO
Ted Turner 68 Cromhill St. Ottawa, Ont. K1J 7K8 746-1860 957-7456	VE3GQ	Sylvester O'Farrell 73 Fifth Ave. Ottawa, Ont. K1S 2M3 233-8803 227-8142	VE3LN
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Al Oilfield 2452 Sudbury Ave. Ottawa, Ont. K2C 1L9 828-3864 596-4344	VE3AO	George Oakes RR1 Toledo, Ont. K0E 1Y0 275-2282	VE3EB
Bill Notherwell 711 Broadview Ave. Ottawa, Ont. K2A 2M3 728-5348	VE3BY	Ying Huan 1025 Gill Ave. Ottawa, Ont. K1G 2R2 731-0509 592-5661	VE3FUR
Andrew Campbell 2447 Bresburn Place Gloucester, Ont. K1B 4M3 824-1875 746-2000	VE3BE	Joan Powell Box 300, RR2 Nepean, Ont. K2G 3H1 825-4104	VE3VO

THE OTTAWA AMATEUR RADIO CLUB, Inc.
P.O. Box 8873
OTTAWA, Ontario, Canada
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