



Newscaster

The Official Publication of the
Winnipeg Amateur Radio Club
Winnipeg Senior Citizens Radio Club

March 1998

IPARN

Inter-Provincial Amateur Radio Network

by

Jack Adams, VE4JA

Date: **March 9th, 1998**
Time: 7:30 p.m.
Place: Sturgeon Creek Regional Secondary School

Other Important Dates:

Articles: Mar. 31 - April Newsletter article deadline

WARC: April 13 - Home Brew Night
April 19 - Spring Flea Market
June 27-26 - Field Day

WSC: Breakfast meeting @ Garden City Inn

ARES: Mar 17 Meeting - 435 SAR Sqdn
Apr. 21 Meeting - Portable HF set-up
May 19 Meeting - Severe Weather Video

Other: April 16 - MRS Annual Meeting
June 21 - Marathon
April 24, 1999 - WARC HamFest & Flea market

Words from the President of WARC: by Norm, VE4EH

It feels as though I wrote the last article for the Newscaster only a week ago. Time certainly passes quickly and I am not sure what to attribute it too, perhaps the diversity of activities, due in no small measure to the warm weather and spring like conditions we are currently experiencing. I do hope the unseasonable weather doesn't distract you from your Tesla like Home Brew projects.

Our guest speaker for the 09 March 1998 General Meeting will be VE4JA Jack Adams currently the Vice-President of the Inter Provincial Amateur Radio Network (IPARN). For those who are not familiar with this Net, it is satellite based through a repeater up/down-link which gives the 2 metre operator the ability to communicate with ham operators across the country. Manitoba is currently not a subscriber to this Net, but it is hoped that Manitoba Hams would be open to a review of the situation based on factual data. Hence, an invitation to VE4JA and all hams interested in IPARN to attend this WARC Meeting whether members of WARC or not.

All members who wish to buy a Club jacket are reminded to bring their cheque book to the school cafeteria at 1900 hrs 09 March 1998, at which time the tailor will be happy to measure you for your jacket.

New Graduates -Class of 97 By Larry, VE4LRB

Larry and Marilyn would like to congratulate the class of '97 for their accomplishment of becoming Radio Amateurs. The new amateurs are:

WARC: Executive for 1997-98			
Past President	Richard Kazuk	VE4KAZ	895-4778
President	Norm Coull	VE4EH	885-1692
Treasurer	Rick Lord	VE4OV	275-6980
Secretary	Ruth Mills	VE4XYL	837-6915
Vice-President	Larry Burkhardt	VE4LRB	487-0509
Program	Dave Wood	VE4KU	895-7067
Membership	Dan Michaelis	VE4SYG	339-3018

Roy Beddall	.....	VE4RWB
Lian Hanson	.....	VE4LZZ
Janet Riley	.....	VE4JMR
Horton Edward	.....	VE4EIH
Dennis Fradin	.....	VE4DH
Kerri Barclay	.....	VE4EEE

ARES Committee Report by Jeff, VE4MBQ - Winnipeg EC

Our February meeting featured Maiko VE4KLM who gave us a presentation entitled "Packet Radio Using a Sound Card Instead of a TNC". The 735 RCS Communications Reserve was scheduled to come out but their CO apparently declined the invitation without having the courtesy to notify us that they were declining!

Our volunteer amateur communications operation for Festival du Voyager Sled Dog Races went VERY WELL. The lousy weather Saturday afternoon made it a good winter communications exercise.

We utilized twenty-four volunteers with two in Net Control up in The Forks Tower and the rest down on the river ice at various points. I suspect that we might have picked up three new members as a result of this operation. Our volunteers were VE4s:

ACX AJR AND CDP DAR EH GWB HAY HK KAZ KEN
MAB MBQ MJM MMG PLG RBL RWB SE SYG WF WTS
XYL and Daniel Mills.

Special thanks to Stan VE4SG and Scott VE4SM for the loan of needed HTs, Paul at VE4WSC for allowing us to set up Yori's portable repeater at WSC and Richard Andrich and his staff at The Forks for their cooperation and assistance with Net Control location and parking for our vehicles.

Our next meeting is 730 PM Tuesday 17 MARCH 98 at Sir Wm Stephenson Library, 765 Keewatin Street. A representative from 435 Search and Rescue Squadron is scheduled but with the recent deployment of part of the squadron to the Middle East this lecture might be put over until the fall - we will meet regardless of which speaker/topic is available.

At this time Good Friday 10APRIL98 looks like a good date for some kind of exercise!

MINUTES for W.A.R.C. February 9, 1998



Submitted by Ruth, VE4XYL

Meeting was called to order at 19:30 hrs. and began with membership introductions. Our guest in attendance was Gary, VE3RIN.

Minutes of the January meeting were approved as printed in the newscaster. Moved by Tom VE4SE, seconded by Derek, VE4HAY. Carried

Newscaster Flea market report correction on page 10 VE4PLG, Pat & Dan VE4SYG Dan, home phone no. to read 339 3018.

Newscaster correction re: CLARA net should read to be held on Tuesdays

BUSINESS ARISING

- Norm VE4EH Last call for club jackets to be ordered. Norm asked for a show of hands for those interested in getting clubs hats made to match our club jackets

TREASURERS REPORT

As of the end of January 1998, the bank balance was \$5168.81

RAC REPORT

- Rick VE4OV Reported on the extent of bulletins coming in through E-mail as printed in the January newscaster.

COMMITTEE REPORTS

- ☞ Programs. Lee VE4ANC, March 9th meeting, Jack Adams VE4JA from Russell has agreed to come in and give a presentation on the operations and costs of IPARN.
- ☞ April 13th meeting will be Home Brew night. Lee encouraged everyone to bring in something worked on and made workable.
- ☞ ARES - Jeff VE4MBQ reminded everyone of the briefing on the dogsled races Tuesday Feb. 10 at 19:00 hrs.
- ☞ FIELD DAY - Derek VE4HAY It will be held on June 27th and 28th in Falcon Lake. Hotel has been booked at approximate \$100.00 for the 2 nights. A radio operating shelter is available. A coordinator is needed to set up a tower, hf antenna and coax etc.
- ☞ INTERNATIONAL HAM FEST - Norm reminded the membership that this is the 35th anniversary for the IHF being held on July 10th, 11th, and 12th at the International Peace Gardens and WARC is hosting this year's

event in Minot and Bismarck N.D. We need prizes and volunteers. Prizes are needed for the silent auction, kids scavenger hunt, spot dances, door prizes for the ladies hospitality tea, 2m hunts, etc. Volunteers are needed to help set up and take down antennas, assign duty rosters for registrations and just ordinary jobs that makes an event run smoothly and efficiently. Norm also needs input from membership in selecting a candidate for Keyman award and Ham of the year. Also at the Christmas party Dec 1997, 2 Heath Kit manuals were left behind. Norm has them if anybody wants to claim them.

☞ OSCAR AWARD - Dick, VE4HK, Oscar, Outstanding Service to Amateur Radio. Awarded to someone who has made a major contribution to Amateur Radio. Congratulations to a very deserving recipient, Rick Lord, VE4OV. The new plaque will be displayed at the Winnipeg Seniors Club facilities. Dick thanked the executive for allowing a new plaque to be purchased and thanked the Seniors Club for allowing the plaque to be displayed in their club.

Meeting adjourned at 20:10 hrs.

RAC Bulletin #98-01, 04, 05, 06
Reply-To: rachq@king.igs.net

Bulletin 98-09E

IPARN reflector

If you are a member of IPARN, and have any questions about the system, have a look at the new unofficial IPARN Reflector. If you aren't a member, you're still welcome to subscribe to the mailing list. A reflector contains a list of e-mail addresses of people with a common interest. By subscribing to the IPARN reflector, any mail sent to iparn@qth.net will automatically be sent to you. Any questions, comments, or even answers that you can provide to others can be sent to all subscribers with just one e-mail.

To join the mailing list on the reflector send a message as such:

TO: majordomo@qth.net
 SUBJECT:
 BODY: subscribe iparn

To be removed from the mailing list:

TO: majordomo@qth.net
 SUBJECT:
 BODY: unsubscribe iparn

To post information/questions to the list:

TO: iparn@qth.net

This mailing list is sponsored by Al Waller (K3TKJ). The mail you send to subscribe/unsubscribe is processed by a

computer, so any extra information you send it will be ignored. Hope to see your questions/comments on the reflector! Please address any questions to: jewen@oanet.com James Ewen VE6SRV

Bulletin 98-10E

How will the Internet, APRS, Spread Spectrum and Space Communications Affect Amateur Radio?

Last September, the IARU set up an Amateur Radio Outlook committee:

"To review the current and future state of the art in the Amateur and Amateur Satellite services in the light of the changing technology and the Internet; to focus on technology, techniques and future developments, and to make general recommendations as to the future growth and development of Amateur Radio" The committee has approached all member societies of the IARU around the world seeking input into the study. In response to the request from the IARU, Radio Amateurs of Canada is preparing a paper on what Canadian amateurs think about: Changes in global telecommunications technology including; the Internet, APRS, digital communications and spread spectrum, and space communications, in the context of ever increasing world wide demand for access to the radio frequency spectrum. RAC will collect and organize your ideas and send them to the International Amateur Radio Union on or before May 31 1998.

Please send your thoughts, comments and suggestions to RAC headquarters via e-mail: rachq@rac.ca Or via regular mail to:

AROC,
 Radio Amateurs of Canada
 720 Belfast Road, Suite 217
 Ottawa Ontario K1G 0Z5

Bulletin 98-15E

RAC BOARD "APPALLED" AT IC BEHAVIOR

President Farrell Hopwood, VE7RD, calls Industry Canada's cancellation of the Amateur Delegation Project as "unprofessional and shortsighted". The lack of progress made is squarely laid at the feet of Industry Canada's officials.

"RAC's Regional Directors were appalled at the lack of consultation over this pre-meditated action. The Directors, from across the country, were shocked at the questionable manner in which IC officials handled this matter. It has severely damaged the faith, confidence, and trust we once enjoyed with members of the department. The way in which this was handled is a complete reversal of the government's commitment to partnering, consulting and empowering Amateurs, especially the manner in which our delegation people were 'hung out to dry'", Hopwood stated. Here is the text of a recent letter to Industry Canada Minister Manley:

February 17, 1998
 The Honorable John Manley, PC
 Minister of Industry
 235 Queen Street Ottawa,
 Ontario K1A 0H5

Dear Mr. Manley:

More than forty thousand Radio Amateurs across Canada were shocked, dismayed and outraged with the November announcement that your officials had abruptly cancelled a four-year delegation initiative that was nearing the implementation stage. Radio Amateurs of Canada (RAC) had assigned top level experienced people and expended a large amount of time and money over the past four years to ensure the success of this undertaking. All projections, including the encouragement of Assistant Deputy Minister Binder, gave us every confidence that delegation would become a reality.

Historically, this project had its genesis in 1989 when the Canadian Radio Amateur community began to bolster its resources to better respond to regulatory matters. A critical and major step, at the urging of your officials, was the merging of two associations into one national organization, Radio Amateurs of Canada. An immediate benefit was the establishment of a joint Industry Canada - RAC Canadian Amateur Radio Advisory Board (CARAB). This Board was established specifically for the purpose of consultation on matters affecting the amateur radio service from the viewpoints of both Radio Amateurs of Canada and the department.

At the first meeting of the Advisory Board, in September 1993, IC officials proposed formation of a joint IC-RAC working group to develop a business case for delegation of certain administrative functions to RAC. We immediately responded by assigning RAC members with previous high level government and business background to work with your officials. RAC gave this project top priority. In every instance we met target dates, developed working data in a timely manner and cooperated completely with Industry Canada officials. RAC also incorporated a separate subsidiary organization to administer delegated functions in an autonomous and objective manner. The delegation concept was enthusiastically embraced by thousands of Radio Amateurs across Canada. You can readily understand that RAC found it appalling and alarming that IC officials suddenly, without warning or explanation, announced termination of the delegation initiative. We were further discouraged to learn that a survey, directly polling individual Radio Amateurs had been commissioned, bypassing the very organization that your officials had encouraged us to form. It was indicated that the results of the survey and other considerations would ultimately shape Industry Canada's future administration of the Amateur Radio service. These

actions are completely contrary to the CARAB agreement to consult on such serious matters. This abrupt, but obviously premeditated withdrawal has seriously shaken RAC's confidence in your officials, particularly in light of the ambiguous reasons since advanced for canceling the delegation plan. Precipitous termination of the delegation initiative has far reaching implications not only for Radio Amateurs of Canada as an organization, but also for the Amateur Radio service generally. It is a matter of such deep concern and apprehension that I am compelled on behalf of the Amateur Radio community to seek a meeting with you at your earliest convenience.

Yours very truly,

J. Farrell Hopwood
 President and Board Chair
 Radio Amateurs of Canada, Inc.

WARP - Fees are now due **By Werner , VE4UA**

It is once again time to solicit your membership renewals for W.A.R.P. The following fine fellows and gals have made their desire to support our organization for the 1998 calendar year.

VA3FNP, VE4AEY, VE4CAT, VE4DRC, VE4EI, VE4GHR, VE4HGD, VE4ISP, VE4JOP, VE4LI, VE4PJ, VE4RJH, VE4SET, VE4STW, VE4UA, VE4UX, VE4WTS, VE4YZ, VE4ZT

Remember your membership fees go towards the support of the VE4UMR and VE4IP Internet gateways.

Send your \$20.00 to:
 W.A.R.P. c/o VE4LI
 116 Risbey Cres.
 Winnipeg, MB
 R2Y 1M4

or hand deliver them to VE4LI, VE4SET, or VE4UA at the "arches" most Saturday Mornings or any other time you might run into us...

Upcoming Radio Events

March

7-8 ARRL International DX Contest, phone

April

13 144-MHz Spring Sprint
 21 222-MHz Spring Sprint
 29 432-MHz Spring Sprint

PANAM Games Amateur Radio Group

Jeff Dovyak, VE4MBQ, DEC ARES

The group met in early January and presumably reported back to their respective organizations (MRS, WARC, WSCRC, UMARS, Pinawa RS) but if you missed their reports here is our current status.

The Pan Am Games Society has contracted with MTS to be the EXCLUSIVE communications supplier for the games. The games society feels that they are unable to enroll amateur volunteers to provide any communications outside of this exclusive contract. HOWEVER the Pan Am Emergency Planning Committee has not ruled out the use of amateur operators in contingency planning/emergency operations, so stay tuned.

The Pan Am Society would be pleased to have amateurs sign up as general volunteers to be assigned a variety of non communications tasks but they do not want us as amateur operators. Don't be overly upset, the Atlanta Organizing Committee worked with their amateurs for two years before declining amateur involvement a few weeks prior to the opening of the Olympics in Atlanta - Motorola was the contracted exclusive communications supplier for Atlanta.

Spring Flea Market by Pat VE4PLG

Spring is just around the corner and now is the time to start thinking about booking a table for WARC's spring flea market. This flea market will again be held at:

Heritage Victoria C.C.
950 Sturgeon Road.
Sunday April 19/98
10 am to 2 pm
Tables are \$5.00 /members of WARC, MRS and WSC
\$10.00 - non-members

Tables may be booked by phone, call Pat VE4PLG or Dan VE4SYG at 339-3018, in person at the WARC meetings, via MRS nets, or via Manitoba evening phone nets on 80 meters. Tables "MUST" be paid for either at time of booking or by one week prior to the flea market. Tables can be paid by sending a cheque to:

WARC flea market committee
c/o WSC 598 St.Mary's Road
Winnipeg, MB R2M 3L5.

At time of booking please tell us if you need power or not. There are fewer tables than last time so please book early!

New C.L.A.R.A. representative

By Pat, VE4PLG

I was talked into being the Manitoba rep by Minnie VE3DBK and Joan VE5TAW...???? I'll let you know later if I made a good decision....

As the new area rep for CLARA, I'm looking for articles from Winnipeg and around Manitoba on YL activities. These can be radio related, new arrivals at your household, vacations, hobbies or any items that might be of interest to other YL's. I can be reached on packet at VE4PLG@VE4UA, by phone at 339-3018, on the MRS two meter nets, on the Manitoba Evening Phone net or by writing to me at 164 Semple Avenue, Winnipeg, Manitoba R2V 1B3. The next deadline would be June 1, 1998.

Some YL nets to look for on the HF bands,
-Brazilian YL net Wednesday at 1930gmt on 14.248mhz
-European YL DX net Thursday at 1800gmt on 14.243mhz
-YL Open House Wednesday at 1900gmt on 14.288mhz
-Tangle net Thursday at 1800gmt on 14.297mhz.
-CLARA net Tuesday at 1700gmt on 14.120mhz
-CLARA net Monday at 0001gmt on 3.750mhz
-EastCan CLARA net Tuesday at 1400gmt on 7.055mhz
-WestCan CLARA net Tues & Fri at 0300gmt on 3.740mhz

There is a CLARA and family HF contest coming up in March. It is open to all licensed amateurs.
CW - March 17,1998 1700Z to March 18,1998 1700Z
suggested frequencies:-14.033 21.033 7.033 3.688
PHONE - March 17,1998 1700Z to March 18,1998 1700Z
suggested freq:-14.120 14.285 21.300 7.200 3.775 3.900
Just call CQ CLARA

For more information on this contest please contact:
CONTEST MANAGER Jeanne Gordon VA3WX, 478 Donegal Drive, Burlington, Ontario L7L 2M7.

Computers - a history of...

Club Jackets

Have you seen those nice club jackets that your fellow hams have been wearing. Wish you had one so you could fit in. Well, now is your chance .

The Winnipeg Amateur Radio Club jacket is once again on sale. Please see the Club President, Norm, VE4EH if you are interested in a jacket. Price will depend on how many confirmed orders are

by Dan Michaelis, VE4SYG

Michelangelo actually thought of the computer. Of course it wasn't called a computer in those days, it was called a calculating machine.

Abacus and adding machines had been used for a number of years, but man strived for something more.

In 1642 a man named Pascal invented a machine that could add. It involved a complicated set of gears, that due to lack of tools could never be set properly. In 1818, Jacquard based his counting machine on the cotton looms and used a series of punch cards that worked as on-off switches. Again a great idea, but before its time. Thirty years later, Babbage invented the Analytical Engine. His hope was to be able to perform calculations to the twentieth decimal. The driving force behind Babbage was to find a system that would assist ship pilots in plotting their course more accurately. This would lessen the number of ships lost at sea.

Lady Ada Augusta was Babbage's chief collaborator. She gave us the term DEBUGGING... she removed a bug that had flown into the machinery. Lady Augusta is also heralded as the first computer programmer, so this isn't just a man's world!

The late nineteenth century saw many changes and improvements on the computer, or electronic tabulating machines. Some were designed for specific jobs, like counting the US census, others just didn't quite make it. Computers went a long way from those to ENIAC, the first real computer that worked in modern times. The ENIAC was considered the electronic computer. It was an improvement over the older Mark 1, which was built by IBM, because it only took up 1500 square feet and weighed a mere 30 tons. It contained over 17,000 vacuum tubes and produced a tremendous amount of heat; the building it was housed in had to be cooled in summer but the computer provided the heat for the winter months. It was the first computer to make decisions. It went beyond just performing calculations. ENIAC was originally built to computerize missile trajectories, and if you changed the problem or program it was working on, it would take three days of resetting the plugs and switches. The programs were run by the setup of switches and plugs. No actual program was stored or saved anywhere. Just a series of on and off circuits.

This seems to be time consuming by today's standards, but by 1940 standards, this was faster than anything else that had been tried.

The ENIAC was replaced by the EDVAC and EDSAC systems. These were the first to store programs. Not much smaller in size, and actually were heavier - 35 tons. The

UNIVAC was the first commercial venture for computers and could only be afforded by the US government. It could perform up to 1,000 calculations per second. This ability made them popular.

Transistors brought about the next series of computers. It also made them smaller, lighter and faster. They could now perform up to 10,000 calculations per second. Punch cards were replaced by magnetic tape, giving machines the capability to read as well as write.

The next advance didn't happen for almost thirty years. The seventies with the US space program saw the invention of the microprocessor, by a developer at Intel. This invention dropped the weight and size and increased the speed and reliability.

Today, this microprocessor is standard in all PC's and the advance of miniaturization goes on. Now a computer can sit on your lap or hand. So the next time you think about how slow your machine is running or how cumbersome the machine is, think of the ENIAC or the UNIVAC and breathe a sigh of relief that you don't have to lug those around with you. Computers can make your work easy to access, but there are some days when an old fashioned piece of paper and a pencil works better than a computer, especially when the power goes off!

Packet Radio Without the TNC

by Maiko, VE4KLM

I'm still not sure why I got involved in packet. Maybe because I saw it as an extension of what I do at work - playing with commercial X25 and TCP/IP networks. Packet radio is nothing more than commercial X25 that has been altered to accommodate the amateur world, so this stuff was right up my alley. The only problem I had was money and the lack of it. When you have your wife, a one year old, and one income, there is just no way one can justify expenditures on TNC's and all those other toys. Fortunately for us, we already had a computer, complete with internal modem and one of those sound cards. Now, what does this have to do with Packet Radio? Keep on reading...

I always wondered if a sound card could send and receive the same signals that a TNC does. That way I could use the sound card that I already have, saving me from the need to spend more money on a TNC, or Baycom board, or whatever else. After some searching, I located an amateur radio group in Germany, known as the PC/Flexnet group. They have software that will let you participate in packet radio activity using only your radio, your computer with a sound card, and of course the software. The only other thing you will need to do is build a very basic PTT circuit consisting of one transistor, two resistors, and one ceramic

capacitor. Anyone who has their license should have no problem building it :)

Does this work ? Yes it does. I now have a full time connection to the VE4IP gateway machine, using TCP/IP layered over packet. TCP/IP bother you? Hey - it's still packet radio !!! It is just a heck of alot easier to use e-mail facilities in the Internet domain if you have it. Through VE4IP, I am able to access the VE4UMR machine, which I use as my primary Internet MAIL/SMTP Server for amateur radio related activities.

As far as plain old packet is concerned, I have been able to directly connect to VE4PKT and VE4UA BBS without any problems. Unfortunately, my results have been inconsistent, but I suspect that is because my signal path to those nodes is not the greatest, and I am simply too lazy to raise the height of my antenna.

I am using 1200 baud which is more than adequate for text based e-mail. They claim that the sound card can also do 9600 baud, but I have not had the chance or radio to try it out. That is up to you, if you want a challenge. The 9600 baud software is compatible with the latest G3RUH TNC standards, so it is relatively up to date.

If you want more information on this neat stuff, please try out the following :

my Web Site

<http://www.geocities.com/CapeCanaveral/Hangar/1632/>

Email Address - ve4klm@ve4umr.ampr.org

Packet Address

ve4klm@VE4UA.#WPG.MB.CAN.NOAM

The History of Amateur Radio Revisited **Condensed and submitted by Ed, VE4YU**

In 1922, most broadcasting stations in Canada were owned by firms, such as Marconi, which was primarily interested in the sale of radios and wished to provide programs for their customers, or by newspapers, not realizing that radio would become their strongest competitor in the field of news dissemination, under the impression that it would somehow increase their circulation.

In Winnipeg there was fierce competition for readers between the Manitoba Free Press and the Winnipeg Tribune. Any promotional scheme discovered by one of them to gain more readers was soon countered by the other. On Thursday, March 23, 1922, the Free Press reported that it had been granted a license for the operation of a broadcasting station on a wavelength of 410 meters with the callsign CJCG. The paper said that L.V. Salton had been engaged as consulting engineer and that an up-to-date plant would be in operation in about ten days.

The Free Press broadcast its first program on Sunday, April 2, 1922. Promptly at 10 PM, operator Salton, to quote the Free Press, "Sped through the ether the warning call: Hello, hello, hello, radiophone broadcasting station 4AH, Free Press broadcast number one". The opening announcement was ambiguously worded; it did not specify that the Free Press was the owner of the station. A similar introduction was used for the second and possibly later programs. 4AH was Salton's amateur call but it was illegal for an amateur to broadcast on a commercial channel. Salton was the radio inspector and was responsible for enforcing the law. Why was the Free Press's own call CJCG not used? A logical explanation is that their license application had not received final approval from Ottawa. The Free Press, however, was eager to get on the air before its rival, the Tribune.

The Free Press wasted no time in telling the world that it was the first newspaper on the prairies to start broadcasting. Their flea power transmitter, running only ten watts into a makeshift antenna on the Free Press roof, had beaten the Tribune to the punch.

On April 13, 1922, a Marconi engineer arrived in Winnipeg along with ten cases of radio apparatus that had been shipped from Montreal. By April 17, the set had been tuned to its operating wavelength of 400 meters and tests were being run at power reduced below its normal input of 500 watts. The Tribune announced a gala opening program for its station, CJNC, to be held on Thursday, April 20, with introductory address by the Lt. Governor, Sir James Aikens, and a concert by over 200 artists including the Winnipeg Male Choir, the Oratorio Society, two solists and the Princess Pat's regimental band.

It was the most ambitious program ever presented by a Canadian radio station and received many compliments from listeners in southern Manitoba, North Dakota and Minnesota. It was obviously designed to put to shame the opening performance of what some of the Tribune radio crew referred to as the "Carlton Street peanut whistle" .

NEXT MONTH ..

Theaters set up radio demonstrations and T. Eaton Co. enters the field

The above information is taken from a publication available at the Manitoba Archives, produced by George F. W. Reynolds, VE4AJ, who became a silent key in 1996.

- Condensed and submitted by Ed Henderson, VE4YU - 1998

Editors Ramblings

BY Derek, VE4HAY

As I finish off the newsletter this month, I see that our short lived Spring is over, with the arrival of another snow storm. Well it seems appropriate since I am involved with installing an antenna this weekend in Morris for the Manitoba Repeater Society. And as we all know this is best done when the weather is the coldest. Sorry, my fault for the quick change of weather.

Speaking of the Repeater Society, please take note that they will be holding their annual general Meeting on April 16th at the Elmwood Legion on Narin.

Please remember that next month will be Home-brew Night at the WARC meeting. So finish off those radio related projects and get then ready for transportation to the meeting. Judging will be different this year and everyone has a chance to win; no matter the quality of the project, from the most elaborate to the simplest.

Remember that the Marathon will be here in June along with Field Day. So start signing up now!! And as always send articles for print in the Newscaster

I can be reached by e-mail at: ve4hay@rac.ca. or on packet at VE4HAY@VE4UA.#wpg.mb.can.noam.

AMATEUR RADIO for BEGINNERS

Instructor: Larry R. Burkhardt
Electronics Engineer

The current course is already running but, I am now taking names for the next course.

If you who know of anybody (XYL, YL, OM or just a friend) who is interested in taking this course, Please pass on this information and have interested parties contact me personally at 487-0509 after 6 p.m.

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**“Easter Specials”
Spring into a new rig**

- Kenwood TH-79A:** - Dual band handheld . . \$499.00
- Kenwood TM-V7A:** - Dual band mobile ... \$699.00
- Kenwood TH-235A:** - 2 Meter handheld .. \$259.00
- Kenwood TM-261A:** 2 Meter mobile \$359.00

(Visa/MC/CHQ add 2%)

- Yaesu VX-1R** - compact Dual Band HT .. \$399.00
- Yaesu FT-8100R** - dual band mobile ... \$699.00
- Yaesu FT-50RDH** - dual band HT \$489.00
- Yaesu FT-920** - HF w/6M and DSP \$2379.00

(Visa/MC/CHQ add 2%)

- MFJ-812B** - 2M SWR/PWR meter \$38.00
- MFJ-949E** - Deluxe HF tuner/meter \$199.00
- MFJ-259** - Deluxe antenna analyzer \$319.00
- MFJ-1702B** - 2 position antenna swith. .. \$33.00
- MFJ-105B** - 24 Hour wall clock \$29.00
- MFJ-557** - Code practice oscillator \$37.00
- MFJ-1728B** - 5/8 2M/6M mobile antenna .. \$39.00

- LMR-400** coax cable \$1.35/ft
- DCI 146-4H** - 2 Meter intermod filters ... \$109.00

.....plus many-more in store specials!

(Prices in effect while quantities last!)

(prices are for cash/cheque; VISA, Mastercard add 2%)

**Kenwood * Yaesu * MFJ * Cushcraft * Alinco
* Valor * Sangean * Aor * Uniden * Optoelectronics**

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