



Newscaster

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

June 2000

Wayne's Wireless World

By Wayne, VE4WR

Date: June 12th, 2000
Time: 7:30 p.m.
Place: Sturgeon Creek Regional Secondary School

Other Important Dates:

Articles: Sep 11 - Article Deadline June Newscaster

WARC: Aug. 31 - Memberships Expire - time to renew
Sep. 18 - Meeting

WSC: Sept. 14 - Annual Picnic

ARES: Sept 24 - Parkinson Superwalk

Other: June 18 - Manitoba Marathon
June 24,25 - Field Day
July 7, 8, & 9 - International HamFest
July 20,22 - Central States VHF Conference
Aug 4-6 Camp 807 - Kenora ON.
Aug. - MARM HamFest

NEWS from the Winnipeg Seniors' Radio Club by Gil Frederick, VE4AG

We welcome a new member to our group: Ken Brock, KB0K, 100 Scotswood Dr., WPG R3R 2X9, phone 204-837-4019. Please add Ken to your membership list; and make this address correction change for Irv Cosgrove, VE4UG, who now resides at 403-919 St. Anne's Rd., R2N 4K8. Irv's phone number is 222-3006.

We had a very successful turnout at the May breakfast at the Garden City Inn, almost a record. We had 33 adults and one 5-month-old baby (VE4YU's granddaughter Lauryn, attending with her parents). Service was excellent, the food was great, and the din emanating from the room was so great that staff closed the connecting doors to the main dining area! The next breakfast will take place on Thursday, June 8th, beginning at 9 a.m. at the Garden City Inn. Breakfasts will continue through July and August.

We had our Board meeting in May one day early so that President Ed, VE4YU could attend - he was on his way the next day to the Dayton Hamfest. Sorry to hear that you had car trouble on your way back Ed.

A few of our members, VE4YU, VE4SN and VE4ALN used the callsign VE4RAC during the week in April to celebrate the 75th Anniversary of the International Amateur Radio Union (I.A.R.U.); Gil, VE4AG, used the new callsign VA4RAC. A report can be read of this exercise in an upcoming The Canadian Amateur.

Our next social event will be the Annual Fall Picnic, to be held as usual at the St. Vital Park duck pond site. It will take place on Thursday, September 14. Members, friends and visitors are most welcome to attend. 11 a.m. is a good time to start showing up. A super lunch will be available during the noon hour, including hotdogs, hamburgers, corn on the cob, vegetables, condiments, and beverages. An operating hf and vhf station will be set up, good 'oldies' music will be heard (courtesy of Ed, VE4YU), and Bingo will be played. Let's hope the day is warm and sunny. This picnic takes the place of the usual monthly breakfast.

WARC: Executive for 2000			
Past President	Norm Coull	VE4EH	885-1692
President	Darcy Wilson	VE4DDW	783-0421
Vice-Pres./ PR	Tom Mills	VE4SE	837-6915
Secretary	Ruth Mills	VE4XYL	837-6915
Treasurer	Sue Collings	VE4SYM	694-1525
Membership	Mariska Maguire	VE4MMG	256-3143
Program	Tom Mills	VE4SE	837-6915
Goodwill	Vern Dutton	VE4VQ	256-5346

In late August or early September, the next edition of the 'Sparks' will be available, with a mailing to every member - if not picked up at the clubroom. George, VE4GNG, advises that the May issue of the 'Blips n' Blurbs' is the last one to be published until September. Both Gil and George solicit news and articles for their respective publications, and members can leave material at the clubrooms during the summer months.

The Clubrooms will continue to be open throughout the summer - from 9 a.m. until approx. 3:00 p.m. We welcome visitors for a cup of coffee, a chat, to take the tour of the station facilities, and for licensed Hams to operate VE4WSC. Members are also encouraged to make use of the clubrooms during the summer.

So, until the VE4WSC News appears again in the Newscaster in the fall - everybody have a great summer-time!



The 37th International HamFest

the International Peace Garden on
July 7 - 8 - 9, 2000 at the US Lodge.
For inf. contact Dave, VE4XN
dsnydal@mb.sympatico.ca
(204)728-2463

Industry Canada Amateur Centre
Voice 1-888-780-3333 (toll-free)
Fax: 1-613-991-5575
Email: spectrum.amateur@ic.gc.ca
Web: <http://strategis.ic.gc.ca/spectrum>

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- full page \$75.00
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- ¼ page \$20.00
- bus.card \$10.00

For more information or to place an ad please contact Tom, VE4SE or e-mail ve4se@rac.ca

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Comments or if you just want to reach us :

Newscaster Editor
Winnipeg Amateur Radio Club
C/O VE4WSC
598 St. Mary's Road
Winnipeg, MB R2M 3L5
<http://www.freenet.mb.ca/amradio>

MINUTES for W.A.R.C. May 8th, 2000 Submitted by Ruth, VE4XYL

Darcy VE4DDW welcomed all those attending followed by introductions. There were 53 in attendance.

MINUTES

Moved by Dick VE4HK, seconded by Michael VE4MJM that the minutes be accepted as printed in the newscaster. Carried

TREASURERS REPORT

Susan VE4SYM reported a bank balance as of April 30/00 of \$6612.49. The revenue was \$1879. Expenses were \$172.64. The club jacket bill will be paid this month which will alter the revenues by \$1233.50

RAC REPORT

By Rick VE4OV. As RAC was our topic for the program this evening, Rick just talked a bit about the recent RAC board meeting in Cornwall Ont.

MOVIE "FREQUENCY"

Derek VE4HAY reported that the movie was showing at Silver City in the St. Vital shopping mall. There was an Amateur radio station set up, VE4BB, on May 5,6,7, in the theatre lobby. This was manned with volunteers and brochures about amateur radio were passed out to those interested after seeing the movie. There were 24 stations that called in and the log sheets are in the WARC correspondence file.

MARATHON REPORT

Gord VE4GF did say that Ralph VE4RY is still needing more volunteers for June 18th.

FLEA MARKET

Michael VE4MJM, as the organizer said he was happy to announce that this event went very smoothly and the reports from his sub committees tell him they enjoyed their part of the work as well

FIELD DAY

Ed VE4YU as organizer of this event, which will be held on June 24&25, reported it will be in a group area at Birds Hill Park. The site number is not yet available but the helpers have been assigned and the BBQ will be held on the evening of the 24th.

MEMBERSHIP

Mariska VE4MMG, as membership chairman, reminded everyone that the 2001 membership renewal applications are in your newscaster. Those wishing to receive their newscaster electronically, please notify Mariska.

ELECTIONS

A list of officers for the next fiscal year is need to be in place by the June meeting. Ruth VE4XYL has completed her 3 year term as secretary. As well Tom VE4SE is wearing two hats and would like some one with fresh ideas to take over as the program chairman.

Anyone wishing to volunteer please contact Darcy VE4DDW. If you wish to nominate someone please make sure you have that persons permission that they will stand. We don't want any surprises or embarrassment to the members at the meeting.

JUNE PROGRAM

Wayne Warren VE4WR will make a presentation entitled Wayne's Wireless World.

Meeting adjourned at 20:05hrs.

Winnipeg ARES Report by Jeff, VE4MBQ - Winnipeg EC

Our May meeting featured Randy Hull, City of Winnipeg Emergency Preparedness Coordinator. Randy gave us an overview of the City of Winnipeg Emergency Preparedness Program structure.

CANWARN is active now until 11SEP. We still have open Net Controller Shifts:

DAYS starting 07AUG, 14AUG, 21AUG, 28AUG, 04SEP
EVE starting 31JUL, 07AUG, 28AUG

We plan on running two HF seminars for Basic qualification CANWARN Net Controllers in mid to late June. So far have identified TUE 20JUNE 1900h at PSPC as one of the likely dates.

WPGARES membership dues (\$10) are payable in June, please make your cheque payable to "Winnipeg ARES", we will accept cash but cheques are much easier to handle.

Our next meeting will be Tues 27JUNE 1900h at Sir Wm Stephenson Library 765 Keewatin St. We will have a Weatherwatch Video and a CANWARN Net Controllers Roundtable. We probably will not meet 18JULY unless something pressing comes up - monitor 13 and 16JULY MRS Nets to make sure. After 27JUNE our next scheduled meeting is 15AUG.

Two interesting web-sites:

Weather- From Bob VE4RCJ: Nav Canada Flight Planning has radar and satellite imagery and other neat stuff:
www.navcanada.ca/flight/weather3/index_3E.htm

International Joint Commission - Final report of the International Red River Basin Task Force "The Next Flood: Getting Prepared": www.ijc.org

RAC Bulletins

www.rac.ca/~racnews/othernotices/racbullemail.htm

RAC Bulletin 00-046E

Summary of the 2000 Annual Board Meeting

The Board of Directors of Radio Amateurs of Canada held its annual meeting on April 28 and 29, 2000 at the NAV Canada facilities, Cornwall, Ontario. A brief summary of some of the highlights is provided here to our members.

The Board received reports from members of the Executive, Directors, and Standing and Advisory Committees and dealt with action items arising from the various reports.

The Board approved the following:

Implementation of a four-point program on:

- 1) Membership recruitment whereby Directors will make direct telephone contact with non-members, inviting them to join RAC.
- 2) corporate advertising and sponsorship,
- 3) policy determination on Director expenses and
- 4) five year business plan for RAC.

Life Membership fee increase effective September 1, 2000 to \$1,250.00. Quarterly payments for Life Membership are to be discontinued. All other membership fees remain unchanged.

The Executive positions of Vice President of Government Affairs and Vice President of International Affairs were amalgamated into one position until the end of the term of the current executive, continuing under the direction of Ken Pulfer, VE3PU.

The position of Field Services Manager was moved to an Executive function, to be known as Vice President, Field Services. The Board welcomed Pierre Mainville, VA3PM, as the newest Vice President in the newly created role.

The Board expressed a sincere vote of thanks to all the RAC volunteers, and in particular the people who assist at HQ, with the Website, and with the QSL Bureaus.

Full Minutes of the Board meeting will be posted at a later date on the RAC Web Site and in a future edition of The Canadian Amateur.

RAC Bulletin 00-048E

Semi Annual CARAB meeting in Ottawa

On April 27, 2000, RAC President Ken Oelke, VE6AFO Co-Chaired the 14th Meeting of CARAB. The following were highlights of the meeting.

📻 - Industry Canada is to provide an information document outlining the process for Morse code testing in order that physicians can have a better understanding of what may constitute a disability.

📻 - Industry Canada has asked RAC to prepare a formal proposal, regarding reduction of Morse code speed from 12 wpm to 5 wpm, for the Department's consideration.

📻 - Industry Canada gave an update regarding antenna support structure issues and suggested that RAC continue to liaise with the Federation of Canadian Municipalities.

📻 - The 220-222 MHz sharing agreement with the USA is now signed. A paper interpreting the agreement has been prepared by Graham Ide, VE3BYT, Chair of the RAC VHF/UHF Band Planning Committee, and has been posted to the RAC Web Site.

📻 - RAC's request for a primary allocation on 2.4 GHz and a VLF allocation on 135.7 to 137.8 kHz, is still under review by Industry Canada.

📻 - Although the provisions in Schedule IX of the Contraventions Act apply, Industry Canada agreed to examine the Radiocommunication and Contraventions Act Regulations with a view to clarification of the relevant article relating to address change for amateur stations. As a consequence of this review, it will be determined if the inclusion of a specific contravention will be necessary to address this point.

Amateur Radio Protocol **by Eric, VE4EPC.**

Over the last few Months I have observed a great improvement in the way Amateurs have been conducting their Radio Skills. The use of the Full call sign is being used and is much easier to understand especially now that we have VE4's and VA4's. Also It seems that more people are using Phonetics and are obviously finding that this is the best way to identify a station with out having to ask someone to repeat the Call Sign.

I have also noticed that Acronyms have declined in the use of identification of ones Call Sign. I see no problem with the use of Acronyms as long as they are not used to identify your station or the station you are calling.

The rush hour Pile-ups are slowly declining as more individuals realize that mobile or portable stations are heading home after work and may wish to make a brief call.

I am glad to see people asking if some one requires the repeater and allowing them to contact their party and make arrangements to QSY to an unoccupied frequency .

Some of the things I feel have to be corrected are:

* Excessive use of the call sign of the party you are speaking to. Why are amateurs signing off other amateurs, You have a license to sign on and off with your callsign. Let the other person sign on or off themselves. Its their Call Sign.

* It's Impolite to break into a conversation and carry on a QSO without the consent of all persons involved . Contact your party and make an arrangement or ask if you can make a brief statement.

* If you are acknowledging a break during your conversation with another person , please consider that the person you are talking to may have other things to do and does not have the time to sit and wait while you carry on a QSO with the Breaker. Have consideration to those you are speaking with.

* If you are monitoring a frequency and you hear numerous Kerchunks and or Link codes with out station identification ID your station and indicate that you do not hear any audio from the station transmitting.

* We all have our expertise in certain fields of work or hobbies and most of us are proud of them , but if we consistently use them as our only topic of interest during our conversationsthose individuals monitoring are soon going to get bored and leave the frequency. Try to be more versatile in your conversations !

* Some individuals still feel it is OK to throw a comment into an ongoing conversation with out Station ID and this is no more polite than interfering with a one on one conversation in person. Have some consideration for other people.

If you are within Simplex range of each other, Why not go Simplex! You may be surprised how long you can have a QSO without interruption.

SOMETHING TO CONSIDER.

Some one is always listening, If it's quiet and you want to ragchew ID your station.

If you have words to say about another amateur, do it in person, Not on the air.

Clubs have bylaws and rules, please follow them, they are designed to allow equal communications for all. (Some exceptions may apply, use you own discretion as to which Club you may or may not wish to support.)

Finally do not be intimidated by Amateurs who claim to have years of experience and their way is the best way. They may just have years of doing things their way and its been the wrong way .

You will not find any of my comments in the above article in Official Publications on Radio Protocol and are only my suggestions as to Improving or Acknowledging Radio Protocol.

Please E-Mail me if you have any comments or questions on this article. The address is VE4EPC@escape.ca.

Canada Day Contest

Each year on July 1, the anniversary of Canada's Confederation, Radio Amateurs of Canada (RAC) sponsors the Canada Day Contest. Amateurs all over the world are invited to Canada's Birthday Party on the air.

Contest Period: 0000 UTC to 2359 UTC July 1.

Bands and Modes: 160, 80, 40, 20, 15, 10, 6 and 2 metres, CW and phone (SSB, FM, AM, etc.) Suggested frequencies: CW - 25 kHz up from the band edge; SSB - 1850, 3775, 7075, 7225, 14175, 21250, 28500 kHz. Check for CW activity on the half-hour.

Exchange: Stations in Canada send RS(T) and province or territory. VEØs and stations outside Canada send RS(T) and a serial number.

QSOs: Contacts with stations in Canada or VEØs are worth 10 points. Contacts with stations outside Canada are worth 2 points. Contacts with RAC official stations are worth 20 points. RAC official stations are: VA2RAC, VA3RAC, VE1RAC, VE4RAC, VE5RAC, VE6RAC, VE7RAC, VE8RAC, VE9RAC, VO1RAC, VO2RAC, VY0RAC, VY1RAC and VY2RAC. You may work any station once on each of the two modes, on each of the eight contest bands. It is prohibited to make CW contacts in the conventional phone sub-bands, phone contacts in the conventional CW sub-bands, or to make or solicit contest QSOs through a repeater during the contest period.

Multipliers: Canada's 10 provinces and three territories, and may be counted once on each mode on each of the eight contest bands. The multipliers, with their postal abbreviations and prefixes are: Nova Scotia [NS] (VE1, CY9, CYØ); Quebec [QC] (VE2, VA2); Ontario [ON] (VE3, VA3); Manitoba [MB] (VE4); Saskatchewan [SK] (VE5); Alberta [AB] (VE6); British Columbia [BC] (VE7); Northwest Territories [NT] (VE8); New Brunswick [NB] (VE9); Newfoundland and Labrador [NF] (VO1, VO2); Nunavut [NT] (VY0); Yukon [YT] (VY1); and Prince Edward Island [PE] (VY2).

Final Score: Total your QSO points from all bands, and multiply by the total multiplier points from all bands.

Categories:

- Single Operator All Bands;
- Single Operator Low Power (max. 100 W output);
- Single Operator QRP (max. 5 W output);
- Single Operator Single Band;
- Multi-operator.

Single operators who receive assistance from a DX spotting system or PacketCluster network during the contest must classify themselves as Multi-ops. There are no single-mode categories. Multi-operator stations may operate on several bands simultaneously.

Awards: Plaques will be awarded to the top-scoring entrants in each category. Thanks to the following for their sponsorship: Single Operator All Bands - Radioworld

Single Operator Low Power - Durham Radio Sales and Service

Single Operator Single Band - Elkel Products

Single operator QRP - QRP Canada

Top Scoring Foreign Entrant - Alan Goodacre VE3HX

Multi-operator - Radioworld

Certificates will be awarded to the top-scoring entrant in each category in each province, territory, US call area, and DXCC country.

Results: Will be published in the November issue of The Canadian Amateur and will be sent to certificate winners.

Entries: Send entries by July 31 to:

Radio Amateurs of Canada

720 Belfast Road, Suite 217

Ottawa Ontario Canada

K1G 0Z5

Entries can also be sent by e-mail to Gord Kosmenko, RAC Canada Day Contest Manager, gkosmenko@arrowspeed.com

Entries must contain a summary sheet showing score calculation, a dupe sheet listing calls worked on each mode on each band, a multiplier check sheet and log sheets. Logs sheets must show time, band, mode, call of station worked, exchanges sent and received and points claimed for each QSO. New multipliers must be clearly marked in the log.

Hints & Kinks de Ralph, VE4RY

I recently had a problem with a loose connection in an IC socket. This was one of those cheap type sockets, and by wiggling the IC, the resistance of the connection to the pins varied, resulting in an erratic condition.

I knew the socket should be replaced, but being a ham, I tried something cheap and easy. To make a better connection I applied a thin film of solder to each of the chip's pins, and forced it back into the socket. The connection now was solid!

I don't think all chips would like heat directly applied to their leads, but in this case [an LM3909], no damage resulted. [As with all semiconductors, you should always allow them to cool down after soldering before applying power.] This solder film technique should also work with other similar applications, and may offer at least a temporary fix, or at least help diagnose an intermittent problem.

Radio News

Events to watch for:

During July, the Caseros Radio Club (Buenos Aires, Argentina) celebrate its first anniversary in the new headquarters offering a one-contact special award. They also will raffle an Astron A35 power supply among those who contact the official station. This Radio Club will surrender only 999 awards beginning next May 6 up to July 7 on 80, 40, 10 and 2 meters.

Further info to email lu1dcj@interar.com.ar

Key Lightning Facts

By Telematic

<http://www.lightning-protection.com/reference/ref-main.htm>

Lightning is one of the most powerful and ever-mysterious forces on earth. To safeguard buildings, equipment, and personnel, Telematic has raised lightning protection to a science. As an introduction to the subject, here are some interesting and educational facts about lightning. Please visit the Solutions and Products sections of this web site to see how Telematic lightning protection and surge protection devices can help your company.

✎ Most lightning (70-80%) is actually between clouds. The only significant effect is crackles and bangs audible on car radios and TV interference.

✎ As many as 42 repeat strokes have been recorded as forming one discharge, giving lightning its flickering effect. What we are seeing is a number of different strokes, all taking slightly different paths.

✎ Insurance companies in the US reported 307,000 separate lightning claims totalling \$332 million annually and make around 5% of all paid insurance claims.

✎ Even where no obvious damage has occurred, the life of electronic equipment can be significantly reduced following a lightning surge. Failure of equipment may not happen immediately but may take months to happen.

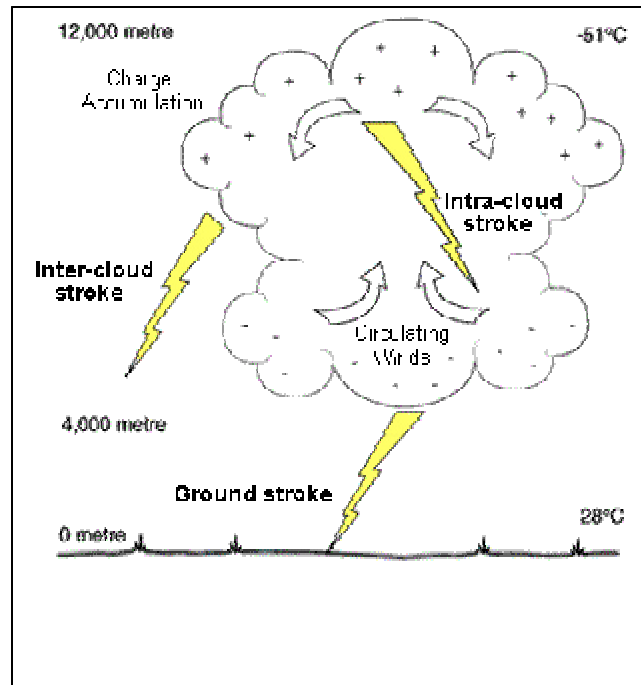
✎ Lightning is one of the leading weather-related cause of deaths and injuries. 85% of lightning victims are children and men aged 10 to 35 engaged in recreation or work. 20% of victims die and 70% of victims suffer serious long term after effects.

✎ Psychological effects of lightning incidents include memory loss, depression, headaches, confusion and inability to work.

How Lightning is Generated

Updraughts and downdraughts of air are fairly common events experienced by most of us and, indeed, used by glider pilots and balloonists to further their flights or bring them to a premature end. Such movements of air may be generated by heat coming from hillsides in full sun or by cold air masses pushing underneath warmer air in a frontal weather system. As the warm air rises, it progressively cools and forms a cloud consisting of water droplets and, at greater heights, ice crystals. A 'thunder cloud' is a system of this type in which the air velocities are much greater than normal. The diagram below shows the wind, temperature and water (or ice) distribution in a thundercloud. The violent updraughts and downdraughts in the cloud centre generate static charges, the exact mechanism by which this occurs being still unknown. The observed result, however, is that the cloud accumulates positively charged ice crystals in the upper region and negatively charged water droplets in the lower region.

In undisturbed fine weather, the earth carries a negative



charge with the corresponding positive charge in the upper atmosphere. By convention, this results in a positive (downwards) field of typically 100V/m. Immediately below the thundercloud charge centre, the electric field may exceed 20kV/m. Fields of such magnitude can lead to point discharges taking place from sharp objects such as the tips of radio masts and flagpoles. These objects are essentially conductors short-circuiting part of the vertical field and hence producing an intense field concentration at the tip.

In maritime terminology these discharges are called 'St Elmo's Fire' when they are seen on ships' masts, etc. Natural objects can also promote point discharges, particularly in mountainous areas where physical elevation further intensifies the field. Climbers often experience the phenomenon of hair standing on end in thunderstorm conditions and point discharges from the tips of out stretched hands have been reported. The discharges themselves are of no great magnitude and are thus relatively harmless, but they serve as a timely reminder that true lightning discharges may be imminent.

The great majority of earth's lightning takes place within a cloud or cloud system. Cloud-to-cloud discharges can generate radio interference often heard as clicks and bangs from nearby storms, or whistles and howls from storms on the other side of the planet. Approximately 15% are cloud-to-ground discharges, these being responsible for the bulk of damaging effects. The importance of this is emphasised by evidence which suggests that the frequency of thunderstorms and related lightning strikes is currently on the increase Globally.

The magnitudes of lightning discharges around the world have been measured from 2000A to more than

200,000A, with rise times to peak current of less than 10 μ s. The variation in magnitude and rise times follows the 'log-normal' distribution typical of many natural phenomena. BS6651 gives the following data:

- 1% of strokes exceed 200kA
- 10% of strokes exceed 80kA
- 50% of strokes exceed 28kA
- 90% of strokes exceed 8kA
- 99% of strokes exceed 3kA

Lightning discharges rarely consist of one stroke only, although the human eye runs together multiple strokes into one persistent image. The process begins with a stepped leader discharge making its way to ground via pockets of charge in the atmosphere, giving rise to the typical strongly branched appearance. As it nears the ground, local charge concentrations tend to be greatest at high or sharp points so the initial stroke is most likely to hit tall objects such as masts, towers, trees, etc. Often a point discharge from the tall object reaches up to make contact with the downward travelling leader stroke. Once the ionised channel between cloud and ground is complete, a conducting path is formed, short-circuiting the charge centres. The main current or return stroke can flow so as to neutralise the charge imbalance.

Thunderclouds are normally positive at the top and negative at the bottom with a positive charge shadow induced on the ground. Thus, the negative charge close to the ground moves down the channel to be neutralised by the positive charge in the earth. By convention, the current therefore moves upward and this initial return stroke has usually the highest magnitude of the multiple stroke series. The heating effect of this current on the atmosphere produces the violent air expansion which we recognize as a thunder-clap.

The initial leader stroke and main return stroke are generally followed by subsequent leaders and return strokes in rapid succession. Up to 42 separate strokes have been recorded as forming one discharge. Stroke spacing is in tens of milliseconds and, physically, each follows the initial leader track unless heavy winds or other disturbances can move the channel.

Some 95% of ground strokes are negative strokes with respect to ground. When positive strokes do occur, they are

usually at the end of the active life of a particular thundercloud, and a single stroke may discharge the whole of the upper positive cloud charge centre in a stroke of exceptional severity.

34th Annual Central States Conference Agenda July 20 - 22, 2000, Winnipeg , Manitoba

Thursday July 20

- 15:00- 17:00 Registration & Informal Get Together
- 19:00- 21:00 Registration & Informal Get Together

Friday July 21

- 07:30- 17:00 Registration (Court Yard)
- 08:00- 12:00 Antenna Measurements 144 MHz- 24 GHz
- 12:00- 13:00 Lunch Break (On Your Own)
- 13:00- 13:15 Welcome -Barry Malowanchuk CSVHF Pres
- 13:15- 13:45 "Building Towers & Marriage Preservation"
- 13:45- 14:15 "Introduction to Tropospheric Propagation"
- 14:15- 14:45 "Multipurpose Control Panel for a VHF/UHF"
- 14:45- 15:00 2m Ionospheric Scatter@, by Jay,K5JL
- 15:00- 15:15 Break
- 15:15- 15:30 "New Data Modes & Weak Signal VHF"
- 15:30- 16:00 VHF/UHF RF Power Measurement
- 16:00- 16:30 American Samoa 6 Meter DXpedition
- 16:30-17:00 Practical Aspects Towers,Antennas,Cables
- 19:00- ? Flea Market & Noise Figure/ Spectrum Analyser/ Sweeper Testing

Saturday July 21

- 08:30-09:00 "Distributed Processing Goes Galactic 09:00-09:45 Arctic Propagation at VHF", by W3EP
- 09:45- 10:00 Break
- 10:00- 10:15 Be Competitive in VHF/ UHF Contests
- 10:30- 11:00 Receiver Dynamic Range by Al W5LUA
- 11:00- 11:45 "50 MHz F2 Propagation Mechanisms"
- 11:45- 13:00? Lunch Break (On Your Own)
- 12:45- 13:15 "Recent Beacon PIC Applications"
- 13:15- 13:30 New Oscar Update & Requirements
- 13:30- 14:15 Intermodulation Causes & Cures
- 14:15- 15:00 2m EME - the Past and Present
- 15:00- 15:15 Break
- 15:15- 16:30 CSVHFS Membership Meeting
- 18:00- 19:00 Social Hour (Cash Bar) in the Court Yard
- 19:00- ? Banquet, Dinner Speaker, Prize Draws

Sunday July 22

- 08:00- 09:00 6 Metre Breakfast Buffet
- 09:00- 11:00 Informal 6M Sessions

Costs - General Program

- | | |
|---|---------|
| Society Dues (2000-2001,each attendee must pay dues to attend the conference) | \$ 7.50 |
| Conference Fee (includes copy of Proceedings) | \$37.50 |
| Extra Proceedings (each copy, p/u at the conference) | \$18.00 |
| Saturday Banquet (per person) | \$28.00 |

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Contest Calendar

June

03-04	0000-1600	CW W W South America Contest
03-04	1500-1500	CW IARU Region 1 Fieldday
10	0000-2400	SSB Portugal Day Contest
10-11	0000-2400	RTTY ANARTS WW RTTY Contest
10-11	1200-1200	SSB TOEC WW Grid Contest
11	1100-1300	SSB Asia-Pacific Sprint
11	1800-2400	CW/SSB West Virginia QSO Party
17-18	0000-2400	CW All Asian DX Contest
18	1800-2400	SSB Kid's Day Operating Event
24-25	1200-1200	CW SP QRP Contest
24-25	1400-1400	CW Marconi Memorial Contest
24-25	1800-2100	CW/SSB ARRL Field Day

July

01	0000-2400	CW/SSB RAC Canada Day Contest
04-05	2300-0300	CW Fourth of July CW Sprint
01-02	0000-2400	SSB Venezuela DX Contest
01-02	1500-1500	CW Original - QRP - Contest
02	0500-1300	CW/SSB DIE (Spanish Island) Cont
08-09	1200-1200	CW/SSB IARU HF Championship
09	2000-2400	CW QRP ARCI Summer Homebrew
15-16	0000-2400	CW SEANET Contest
15	0700-2330	CW/SSB South Pacific 160m Contest
15-16	1500-1500	CW AGCW-DL QRP Summer Cont
15-16	1800-0600	RTTY North America QSO Party
16	0000-2400	CW/SSB Colombian Independence Da
16	2000-2200	CW The Great Colorado Gold Rush
16	2 periods	CW RSGB Low Power Field Day
22-23	0000-2400	CW Venezuela DX Contest
29-30	0000-2400	RTTY Russian RTTY WW Contest
29-30	1200-1200	CW/SSB IOTA Contest

August

31-01	1600-2359	CW/SSB W/VE Islands Contest
31-01	2 periods	CW/SSB Georgia QSO Party
01	0000-2000	CW/SSB YO DX Contest
07-08	0001-2400	SSB Ten-Ten Summer QSO
07	1000-2200	CW/SSB EU HF
07-08	1800-0600	CW North America QSO Party
08	0100-0300	CW Inernet CW Sprint Contest
14-15	0000-2400	CW WAE DX Contest
14-15	2 periods	CW/SSB Maryland-DC QSO Party
21-22	1200-1200	CW Keyman's Club of Japan Contest
21-22	Multi period	RTTY SARTG RTTY
21-22	0000-2400	SSB SEANET Contest
21-22	1800-0600	SSB North America QSO Party
21-23	2 periods	CW/SSB New Jersey QSO Party
22	1800-2359	CW/SSB CQC Summer QSO Party
28-29	1200-1200	CW TOEC WW Grid Contest
28-29	1200-1200	RTTY SCC RTTY Championship
28-29	1600-0400	CW/SSB Ohio QSO Party
28-29	1600-2200	CW/SSB Hawaii QSO Party
28-29	1600-2200	CW/SSB South Dakota QSO Party

September

04-05	0000-2400	SSB All Asian Contest
04	0000-2359	PSK PSK 31 Contest
04	1300-1600	CW AGCW Straight Key Party
04-05	1500-1500	SSB IARU Region 1 Fieldday
05	0000-0359	CW North America 'Sprint'
05	0000-2400	SSB Panama Anniversary Contest
06-07	2300-0300	CW Labor Day QRP CW Sprint
08-10	1400-0200	CW/SSB YLRL Howdy Days Contest
11-12	0000-2400	SSB WAE DX Contest
12	0000-0359	SSB North America 'Sprint'
18-19	0001-2359	CW/SSB Air Force Anniver QSO Part
18-19	Periods	CW/SSB Washington Salmon Run
19	0000-2400	SSB Atlantic QSO Party
19-20	1800-0100	CW/SSB Tennessee QSO Party
25-26	0000-2400	RTTY CQ WW RTTY DX Cont
30-01	2 periods	CW/SSB Texas QSO Party

Manitoba Marathon 2000

By Kay, VE4YF

Hi, fellow hams! The time is near! Charge those ni-cads, dust off the HT and prepare for that surge of "Marathon Fever". The Big Day is Father's Day, June 18th. The race starts at 7AM and we're all done by noon. The closer stations shut down even earlier. Mile 6, for example usually closes at 9AM or so. Volunteering may not require much of your time. We still have room for more volunteers. Even if you just got your license, not to worry. We carefully consider the location assignments and make every effort to place our volunteers at spots that they will enjoy. If we get enough people, we try to have two amateurs at each location.




WARC - Field Day June 24-25 Birds Hill Park

Details to follow at the monthly meeting

Listen to the MRS 2 mtr net and next months newsletter for more information

If you want to help out with the organization, please contact Ed, VE4YU



That being said, if you would like to be included in this fun and rewarding event, please give us a call and we'll be glad to fill you in. MARATHON MEETING NOTICE - The pre-marathon meeting is at 7PM, Tuesday, June 13th at the Manitoba Sports Federation, 200 Main Street...the usual spot. [Signed-up volunteers only, please.]

73, and thanks .. Ralph, VE4RY @ 663-8894 Kay, VE4YF @ 669-5077

Editors Ramblings
By Derek, VE4HAY

Well, it's way past the deadline for the putting together this newsletter, and I am still waiting for the Presidents article. He must be out of town again, because my e-mails, telephone messages and calls on the radio go unanswered.

So what would he like to write about. Other than all the functions that will be happening in the next few months.. Check the front page and the framed boxes throughout the newsletter for some of these functions. Also Elections will be coming up, and if you would like to put something back into the club for everything that it has given you, well this is

MARMFEST 6 FRI/SAT AUG 18/19, 2000
MB AG MUSEUM, AUSTIN, MB

REGISTRATION - \$6.00 PER PERSON
 FRI NIGHT BONFIRE/SINGSONG
 FLEA MARKET OPENS SAT AT NOON \$5.00 PER TABLE
 LADIES ACTIVITIES
 SUPPER - SAT 5:00 PM - ADULTS \$8:00
 8 & UNDER \$4.00
 FREE DANCE 9:00 PM SAT NIGHT BYOB/MUNCHIES
 CAMPING - ELECT \$12 - UNSERVICED \$10

FURTHER INF. FROM DAVE SNYDAL VE4XN
 PHONE 204-728-2463

25 QUEENS CRESCENT BRANDON, MB R7B 1G1
 e-mail dsnydal@mb.sympatico.ca
 TALK-IN - MARM RPTR 146.91-

TALLY-HO TRANSPORTATION WILL BE PROVIDED TO/FROM DINING HALL/HERITAGE BLDG.



your chance. Or you feel that you do not like the direction the club is taking, you can change that also, All it takes is to volunteer for a position on the executive. The work is not terribly hard. Have a meeting once a month (usually the Monday evening prior to the General Meeting. I'm sure you can handle that. If you are interested in joining the Executive, please give anyone of them a call and find out what is involved, and ask them to put your name on the Election nomination.

Have you checked out the <http://www.ve4.net> web site lately. Bob, VE4ZAP has been doing a great job on this site. If you have a personal site that you would like to add to this site, or if you know of an interesting link that Bob has not put on the site. Please let him know ve4net@canada.com

Remember the Marathon that is coming up on Fathers Day. This is a great chance to get over the fear of operating in a closed net environment. It will also aid in developing your Emergency traffic handling skills. So why not give Kay, VE4YF a call and volunteer to help out.

The summer is here and I know that everyone would like to spend it all outside. But when the mosquitoes get to severe in the evenings and you venture down into the shack

to check if the bands are open. Why not think about writing an article for the newscaster. You have almost three months to put something together. And I promise that it will be printed for all to enjoy and be informed.

Lastly please remember the CSVHF conference that is being held in Winnipeg this year. Please help out and welcome any foreign calls you may happen to hear on 2meters this summer.

Camp 807

Aug 4-6, 2000

hosted by the Lake of the Woods
Amateur Radio Society

at Kenora's municipal camp ground, Anicinabe Park.
The club has promised to forward the details and itinerary
to the web site
<http://members.xoom.com/camp807/>

WARC MEMBERSHIP APPLICATION

Callsign _____ New _____ Renewal _____
 Name _____
 Address _____ City _____ Prov. _____ Postal Code _____
 Phone Number _____ E-mail _____
 Class of Member: Regular _____ Associate _____ Club _____
 Licence Class (please circle) Advanced or Basic HF Endorsement + 5 or + 12
 Payment of \$15.00 by Cheque Cash Money Order For the Fiscal year ending Sept. 30, 2001.
 Do you wish to receive your Newscaster by e-mail? YES NO (If YES, please provide e-mail above)

1. Come to any WARC meeting, held on the second Monday of each month September to June except where the Monday falls on a Statutory holiday then the meeting is held on the third Monday of the month. Meetings are at the Sturgeon Creek Regional Secondary School at 1930 hrs.
2. Send a cheque for \$15.00 for your annual dues to
 WARC Membership
 c/o VE4WSC
 598 St. Mary's Road
 Winnipeg, MB. R2M 3L5
3. Please remember to include your callsign (if applicable) and your complete mailing address, as membership entitles you to 10 monthly issues of The Newscaster, the clubs newsletter which will help keep you up-to-date on all the happenings.