

The Hamilton Amateur

MEETING JANUARY 18, 1995
 NASH AUDITORIUM, CHEDOKE HOSPITAL
 8.00 pm
 SPEAKER: DAVE OF IBM OS/2 TEAM
 SUBJECT: NEW OS/2 WARC OPERATING SYSTEM

EXECUTIVE 94-95

PRESIDENT	Lorraine MacPherson	VA3NZ	389-7653
PAST PRESIDENT	David Bruton	VE3DWJ	383-9808
VICE PRESIDENT	Bob Tenty	VE3TOK	385-4817
VICE PRESIDENT	Fiore Manga	VE3OQG	578-1789
SECRETARY	Jason Clarke	VE3ZYD	544-9970
TREASURER	Joe Urbanski	VE3OCD	388-8383
MEMBERSHIP	Jeff Smallwood	VE3NVY	545-6788

HARC COMMITTEE CHAIRPERSONS

HISTORICAL:	VA3GO	George Olenick	383-7338
BULLETIN EDITOR:	VE3SON	Jim Walsh	689-6839
EDUCATION:	VE3EKY	Bernie Granby	527-7175
HEALTH AND WELFARE:	SWL	Ellen Reinke	522-8909
STATION MANAGER	VE3PFT	Paul Coppin	627-5672
HOSPITALITY CO-ORD:	VE3OGQ	Mary Urbanski	388-8383
SWAP NET CONTROL:	VE3JWJ	John Johnston	578-4275
REPEATER:	VE3OCY	Don Graziano	
EMERGENCY CO-ORD:	VE3EIK	Pat Brennan	561-5413
VE3DC Licencee:	VE3FHQ	Glen Gibson	385-2786
VE3NCF Licencee:	VE3MWH	Mark Gibson	389-4308
VE3RCB Licencee:	VE3EIK	Pat Brennan	561-5413
DELEGATED EXAMINERS:			
	VE3EKY	Bernie Granby	527-7175
	VA3NZ	Lorraine Macpherson	389-7653
FIELD DAY CO-ORD:	VE3PFT	Paul Coppin	627-5672
FLEAMARKET 95:	VE3WVC	Bill Court	572-3755
PROPERTY:	VE3NVY	Jeff Smallwood	545-6788
PUBLIC LIASONS:	VE3PFT	Paul Coppin	627-5672
AWARDS & CONTESTS:	VE3DWJ	David Bruton	383-9808
TECHNICAL:	VA3SP	Mike Spenuk	304-0980

Order of the Gavel CW Operating Award Competition

Purpose: To promote the art of CW operating within the club. HARC members are to contact as many other amateurs as possible. All CW contacts with fixed or mobile licensed amateur radio stations around the world count.

Rules:

1. The competition runs annually from January 1 to December 31 and is open to all HARC members except previous trophy winners.
2. Valid contacts include all CW QSO's in which RST, name and QTH are exchanged. Contest type QSO.s are not valid unless they contain this information.
3. Contacts may take place on any band that you are authorized to use.
4. **Points:**
 - a) contacts made using less than 10 watts input power,
W/VE QSO's count 5 points each;
DX QSO,s count 25 points each.
 - b) contacts made using less than 200 watts input power'
W/VE QSO,s count 2 points each;
DX QSO,s count 4 points each.
 - c) contacts made using 200 watts or more input power,
all QSO,s count 1 point each.Total points equals the sum of above.
5. **Experience equalizer:** In order to give newly licensed Hams an advantage over the high speed experienced Hams, the following adjustment is applied to the above final point tally:
A Ham licensed for three years or more will subtract 25% from his score.
A Ham licensed for under three years but more than two will subtract 15% from his score.
A Ham licensed for two years will subtract 10% from his score.
A ham licensed for 1 year or less will use total score above.
6. **Deadline:** A summary sheet must be mailed in to HARC not later than 30 days after the contest ends.
7. The trophy will be awarded to the highest scoring station at the February meeting.

ENDS AND ODDS

FEBRUARY 4, 1995 Niagara Peninsula ARC Fleamarket at St. Catharines.

The proposed trip to the 1000 islands this summer will be discussed at this meeting.

Change notice: The exam night for Amateur Radio has been changed to the second Wednesday of the month.

A Word About Hail

Randy Mawson
Environment Canada

Hail isn't frequent in Southern Ontario, and when we get it, it's usually rather small, pea-sized. Plants like tomatoes and tobacco however, are extremely susceptible to hail and can be ruined in 20-30 seconds as the missiles of ice do their damage. The tomato fruit, once bruised by the stones are worthless. Tobacco leaves riddled by hail cannot be harvested and sold.

Hail is, in almost every case, associated with mature thunderstorms which by definition usually have updrafts and downdrafts strong enough to support the weight of large hailstones. The stones start off as rain drops which are carried by updrafts to altitudes as high as 14 km., then freeze as temperatures drop to -45 to -50. Downdrafts then carry the stone to the lower levels where rain covers the small but already frozen stone. Here the process starts all over again and in fact it may occur ten or twenty more times before finally being expelled by the mature storm. If you could saw a hailstone in half, you'd find growth rings not unlike those you would find on the trunk of a tree.

When the rock of ice becomes too heavy for the updrafts to support its weight, it will fall out usually just ahead of the heaviest rain. It may also be expelled at the top of the cloud near the anvil and fall well ahead of the approaching storm. Many cases have been reported when hail has fallen well before an approaching thunderhead with the sun still shining.

To this day, I can still remember my father pushing my sister and I under the seats of our wooden boat when we were caught in the path of an approaching hail storm. At age six, I was fascinated by the sound of the stones bouncing off the deck of the boat and was puzzled by the quantities of ice floating in the lake immediately afterwards. After all, it was mid summer...how could it snow? I don't remember my father complaining, but it must have been rather painful to have endured the deluge of hailstones for what seemed several minutes.

Hail, while not exclusive to any particular place in Canada, is quite common. In Southern Ontario, the average fall is about 1-2 days per year with the highest frequencies coming during months from May to July. Nearly three quarters of all hailfalls occur between noon and the dinner hour. The average hailfall usually lasts from 6 to 10 minutes.

Likely everyone can remember a time when hail has fallen and everybody has their favourite story. While my own recollections of large hail come from childhood, I still remember the hail that fell in southern Essex County on May 30th, 1985. That was the precursor to the Barrie tornado which happened the very next day. Nearly every farmer in the southern half of the county reported some damage to greenhouses with many losing every single pane of glass. I recall touring through Collisantes greenhouses near Kingsville and finding hail 18 inches deep inside the greenhouses the following day. Fruit crops were badly damaged, buildings destroyed and crops were flattened...damage estimates were \$30-\$40 million. The table on the following page (Courtesy of Environment Canada) shows some of the more notable hailstorms in Canada.

Reports of hailstorms go back in history for many years, centuries in fact. I came across one example of a hailstorm from the 17th century.

On March 25th, 1635, a hailstorm broke in King's County in Ireland and this is the story as set down and preserved in the British Museum. "...evry stone of it was the size of four inches in circumference. A hen was killed in Ballykilmurry, and her two legs were broken by one piece of it. Two scaldcrows were killed by it in Baile Chodag. Every stone went two inches into the earth, and what fell in the water went to the bottom like a natural stone. And some of them at the time of the shower struck a woman on the head, even from under her hood, and wounded her, and her head was sore for a week from it. And a peasant whose feet were struck by the stones became covered with blisters".

Perhaps the largest hailstone on record which has been accepted as a real fact is one that fell at Potter, Nebraska, July 6, 1928. It was as large as a grapefruit. It was weighed, measured and photographed immediately after falling. It measured 17 inches around and it weighed 1.5 pounds. When cut open, it was found to have the typical layers of ice proving it was a single stone and not two or three stuck together. The weather observer at Potter, who witnessed that hailstorm, wrote that "the monster chunks of ice could be heard hissing through the air, and when they hit in soft or ploughed ground completely buried themselves, and sank half-way in on prairie ground."

There have been many experts, Canadian, American and Russian who have delved into the science of hail suppression with some limited success. It's my believe that Mother Nature can whip up a storm with more fury than our technology is capable of dealing with right now. In the meantime, keep an eye out for those big thunderheads in the distance and until next time...keep a weather watch.

FROM LONDON ARC BULLETIN

TUESDAY NITE SWAPSHOP HELD ON CLUB REPEATER VE3NCF 146.760(-600)
NET CONTROLLER VE3JWJ JOHN (905)578-4275
ALL ITEMS ARE LISTED ON THE SWAPSHOP FOR 4 WEEKS
LIST AVAILABLE ON PAKET AND PHONE BBS 905-575-4745

SWAP LISTING FOR DECEMBER 20/94

VE3BLE, BLAKE (905)529-4415

1- OPTO ELECTRONICS H.H. DIGITAL FREQ COUNTER \$175.00

VE3PKY, CHRIS (905)547-3169

1- LAFAYETT HE25 TRANSCVR. AM,CW 150 WATTS, VFO 80-6METERS
MANUAL, SPARE TUBES \$50.00

VE3CCF, CHRIS (905)847-0090

1- RG-213 COAX 192 FEET WILL SPLIT 100/92, LIKE NEW MILSPEC 17 .63 CENTS A
FOOT

1- CUSHCRAFT R7 HF ANTENA, 3 MONTHS OLD, MANUAL \$375.00

VE3ETK, BILL (519)576-3578

4- EPSON LX800 DOT MATRIX PRINTER \$130

4- SONY TC353D, 3HD, 4TRACK REEL TO REAL TAPERECORDER \$65.00

VE3OUA, RUDY, (416)496-1695

4- TENTEC ARGOSY 2 10-80MTR SSB,CW. PWR/SUPLY, 914 MFJ TUNER, REFLECT PWR
METER FOR VISUALLY IMPAIRED, FREQ COUNTER VOICE SYNTH, CW KEY \$650.00

4- CUSHCRAFT AB5 5 BAND VERTICAL ANT. \$150.00 TAKE BOTH FOR \$750.00

VA3LRL, LARRY, (905)574-1805

4- HOTWATER 101, SB600 SPKER PWR/SUPLY MANUAL AND MIC \$175.00

VE3WP, GEOFF (905)648-4980

4- 2 MTR SWISS QUAD \$30.00

4- HEATH DUMMY LOAD \$20.00

4- TT PAD FOR TRANSMITTER \$10.00

4- SLOWSCAN CONVERTER WITH CAMERA AND SCREEN \$125.00

4- RCA VACUM TUBE VOLTMETER MODEL WV97A \$60.00

4- HEATH CAPACITOR CHECKER MODEL IT-11 \$50.00

4- HEATH HAM SCANNER MODEL HO-12 \$60.00

4- EICO AUDIO GENERATOR MODEL 37 \$65.00

VE3HRJ, JACK (905)335-0073

4- 3 TRS80 COMPUTERS, DOUBLE DISK DRIVES, DISK CONTROLLER, DISKDRIVE,
JOYSTICKS, ZENITH DATA SYSTEMS CABLES AND MONITORS, MODEMS

9600 INTERFACE, SOFTWARE FOR PACKET TERMINAL ALL FOR \$100.00

4- KNWD 9R59D GENERAL COVERAGE RECEIVER \$50.00

VE3LJY, VIC 765-4510

4- 1.2 FLOPPY DRIVE \$35.00

SWL, TAMMY (905)545-9432

2- DIAMOND RH951 ANTENA FOR HANDHELD OR SCANNER \$50.00

2- AR1000 H.H. SCANNER .500 TO 1300 , CASE, MANUAL, CHARGR, BATT \$500.

SWL, RON (905)388-7906

2- GE 5AMP PWR/SPLY MOD 715A \$45.00

VA3WS, BILL (905)312-0428
3- HUSTLER HF ANTENA SYSTEM 10-80 MTRS VERTICAL AND HORIZONTAL BAR \$100.00

VE3NYX, RENZO (905)521-1064
1- AEA HF ANTENA TUNER MINT, CROSS NEEDLE MANUAL 300 WATT + \$145.00
1- UNIDEN HR2600 10 MTR RIG, MANUAL \$250.00
1- EXTERNAL 2400 BAUD MODEM FOR PC \$25.00

VE3JVJ, MARK (905)574-4370
3- DELHI 72 FOOT SELF SUPPORTING TOWER, 9 SECTIONS WITH BASE.. \$450.00

VE3WTE WHITY (905)547-0515
2- IBM MONO VIDEO CARD \$15.00
2- OAK COLOUR CARD \$25.00
2- YAESU FT-11R 2 HH DIGITAL \$400.00
2- STARTEC ATH15 FREQ COUNTER \$200.00
2- SHURE MICS 2 OF EM \$ 40. EACH ONE BASE ONE BOOM.
2- TOKYO HIPOWER HF CONVERTER 80/40/20/15/10 METER BANDS \$200.00

VE3MPO MIKE (905)332-6365
2- PHILIPS ELECTRONIC ANALOG MULTIMETER, BENCHTYPE MOD-PM2401 \$25.00
2- MFJ-304 SHORTWAVE CONVERTER FOR CAR FM/AM RADIO
19-25-31-49 METER BANDS \$30.00
2- 6JB6A TUBE \$10.00

VE3JIS JACK (905)648-6443
1- ALLIANCE ROTOR WITH CONTR. \$55.00
1- CHANNEL MASTER ROTOR WITH CONTR. \$55.00
1- SUPERIOR ROTOR WITH CONTR. \$50.00
1- TURNER +3B MIC \$45.00

WANTED

VE3URI, JIM (416)783-3036
1- ICOM 27H WANTED IN WORKING ORDER OR NOT...FOR PARTS..

VE3TRK, JERRY, (905)227-8774
2- BEARCAT 100 PARTS WANTED mainly knobs and case..

VE3BNF, DAVE (905)578-0186
2- BATTERY PACK FOR KNWD 26-AT WANTED

VE3EKY, BERNIE, (905)527-7175
4- MANAUL OR SCHEMATIC FOR KNWD TH28-AT WANTED

VE3JIS, JACK, (905)648-6443
4- 2 11MTR SSB RADIOS WANTED

VE3ZUL, SPANKY, (905)227-7953
4- HOTWATER 2036A MANUAL WANTED

WL, BART (905)574-9004
1- PRO 2005 OR 2006 SCANNER WANTED

VE3SE, JOE (905)6801211
1- HUSTLER SUPER COIL FOR 80M ANTENA WANTED
1- PRE-AMP 1.2 GIG 30-50 DB WANTED

Spell Chequing

As an added service I am going to put this column in the Spilling Chequer, where I trust it will sale through will flying colons. In this modern ear, it is simply inexplicable to ask readers to expose themselves to misspelled swords when they have bitter things to do. And with all the other timesaving features on my new work processor, it is in realty it is very easy to pit together a colon like this one and get it tight. For instants, if there is a work that is wrong, I just put the curse on it, press the delete quay and it's well sometimes it deletes to the end of the lion or worst yet to the end of the whole rage. For bigger problems there is the cat and paste option. If there is some test where you wish it were somewhere else, you just put the curse at both ends and wash it disappear. When you decide where you can to put it you just curse on that spot and their it is. Sometimes it brings in the Cat that was pasted yesterday but usually it comes out as planed or better. If it doesn't, there are other easy to lose options one of which is bound to do exactly what you want. In no time at all you will be turning out perfect artifacts like this one.

So join the marsh of progress. Hitch your wagon to a stair. When you become adept at world processing there is no end in sigh. On the other end, maybe not. But, without a doubt, Spill Chequing is hear to stay, trust me.

From the bulletins of the Guelph Amateur Radio Club and the Ottawa Amateur Radio Club.



YOU'LL BE GLAD TO KNOW YOUR TOWER NOW CONFORMS TO THE COMMUNITY'S MAXIMUM HEIGHT LIMITS - WHAT IS IT YOU HAMS SAY. "HAPPY DX-ING?"



I FINALLY GOT OUR NEIGHBOR TO GET RID OF THAT OLD STYLE TV THAT I'VE BEEN BOTHERING ON 15 METERS!

NOTE TO ALL MEMBERS AND NON-MEMBERS OF -NCF

If there is any member ****AND/OR**** Non-member that has anything to discuss about the VE3NCF repeaters, please show up at the January 18th, 1995 meeting at Chedoke-McMaster. If YOU do not show up for the meeting, then you do have a problem.

*****But remember...*****

If you have a problem and you do not show up for the meeting, then it is nobody's fault for that problem not being solved.

Executive

Entry form for The Gavel CW Operating Award

Fill in the applicable blanks below to compute your score.

- | | | |
|--|----------|------------|
| 1. No. of QSO's under 10 watts {non DX} | -----x5 | = ----pts. |
| 2. No. of QSO's under 110 watts DX | -----x25 | = ----pts. |
| 3. No. of QSO's under 200 watts {non DX} | -----x2 | = ----pts. |
| 4. No. of QSO's under 200 watts DX | -----x4 | = ----pts. |
| 5. No. of QSO's 200 watts & over | -----x1 | = ----pts. |
| 6. Total of above | | = ----pts. |

Now use one of the equalizers to compute your score.

- | | |
|--|------------|
| 7. Licensed 3 years or more reduce #6 by 25% | = ----pts. |
| 8. Licensed 3 years & more than 2 reduce #6 by 15% | = ----pts. |
| 9. Licensed 2 years & more than 1 reduce #6 by 10% | = ----pts. |
| 10. Licensed 1 year or less no reduction | = ----pts. |

Date of license ----- This is considered the date of your first QSO.

Name -----Address -----phone -----

Station call ----- Score claimed {one of 7 to 10} = ----pts.

Events for 1994/95

Feb The order of the Gavel CW Operating Award
Mar Around the Bay Race
May Home brew night - The Crawford Trophy
June Elections
Field Day

Presidents Report for December, 1994

The Festive Season Dinner held at Burbanks was attended by 40 members and guests. The evening was made possible by the efforts of Stan and the many people who gave freely of their time taking him to pickup the extraordinary number of door prizes. Mary and her desert tray, the suggestions and help on that evening of the members in attending. My sincere thanks to all who helped making this a very pleasant evening.

The applicants for the scholarship should be in the mail by now. Paul will be looking for people to help with the Red Shield appeal, Field Day and Around the Bay Race.

The UHF repeater is on the air and being tested checked and otherwise watched for any problems that may occur.

January will have the meeting days and times the same as last year, changes will be in the bulletin or announced on the Tuesday night check in if time does not permit. Hopefully moving to Mohawk will be soon.

Lorraine, VA3NZ

This list contains the business that contributed door prizes for our Christmas party.

Norham Radio Inc.,
Marval Jewellers,
Howard Williams Ltd(Grant VE3LW),
Fred Gregory Florist,
Swiss Chalet,
Provincial Coin Co Ltd,
Marys Flower shop,
Ed Charlsworth, VE3ZF,
Doncaster Home Health Care Centre,
Andre's Wines,
Home Hardware King E Hamilton,
James Radio,
VE3ZH
Artzy Phartzzy

Wallaces Ladies Wear,
Carl Okimi's,
Ratelle Battery Pak,
E.D. Smith,
Bell Arte Camera,
Punjab Food Mart,
The Redwood Inn,
Manga Fire Service,
Martha Smith London Wines,
Whitley Flowers,
Wentworth Decorating,
Sterling Print and
Pick & Print
Thank you everyone.