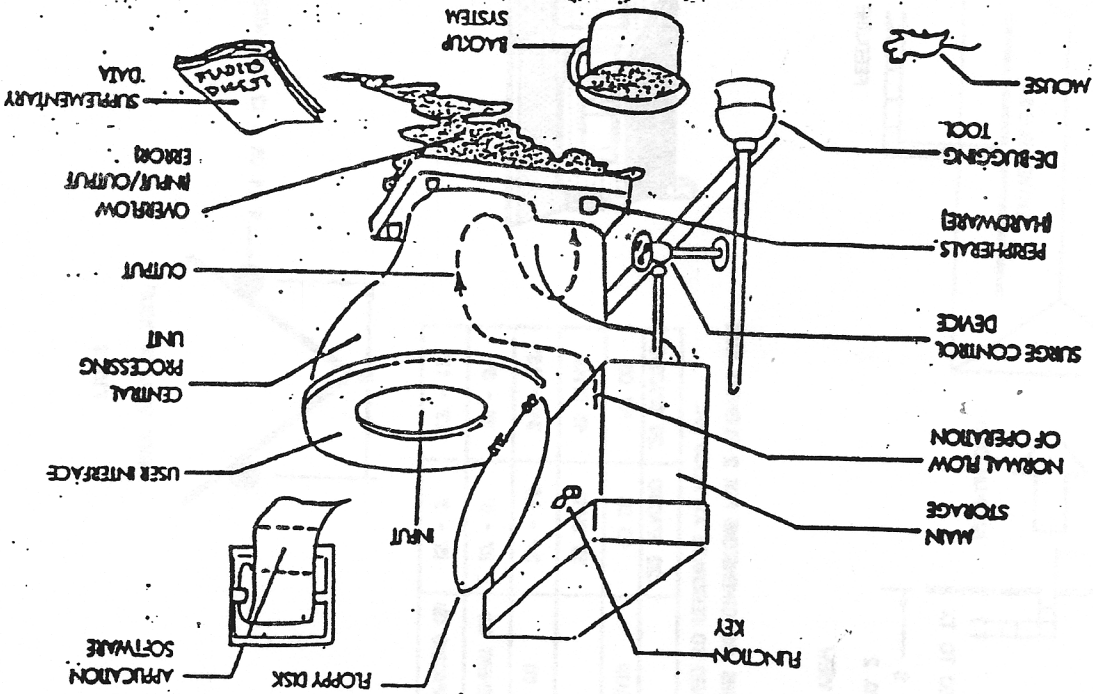


Understanding Computer Technology



The Cellular Mobile Technology

Get Input directly from the expert!

Paul Fleck, VE3HTF

Bell Cellular

Amateur

March 1992

Meeting: 18 March 1992 - 20:00 hrs

(Established 1932)

Nash Auditorium - Hamilton

HARC EXECUTIVE FOR SEPTEMBER 1991/92:

- PRESIDENT: VE3OQG Flore Menga
- PAST PRESIDENT: VE3SON Jim Walsh
- VICE PRESIDENT: VE3GCP Fred Robinson
- SECRETARY: VE3JAI Emery Mitchell
- TREASURER: VE3AMH Mark Gibson
- MEMBERSHIP: VE3LTD Paul Webb

HARC COMMITTEE CHAIRPERSONS FOR 1991/92:

- AWARDS & CONTESTS: Open
- HISTORIAN: VE3BLG George Orndick
- PROPERTY: VE3DWJ Dave Brulon
- BULLETIN EDITOR: VE3SON Jim Walsh
- EDUCATION: VE3ERY Bernie Granby
- EMERGENCY COORD: VE3SMF Stuart Fedak
- FIELD DAY COORDINATOR: VE3OXX Everett Englet
- FLEA MARKET: VE3DKJ Keith Johnson
- HEALTH & WELFARE: VE3GFE Stan Boldvuth
- PROGRAMS: VE3GCP Fred Robinson
- PUBLIC LIASON: VE3GCP Fred Robinson
- HOSPITALITY COORD: VE3OQG Mary Ubersack
- 60th ANNIVERSARY PLAN: VE3GCP Fred Robinson
- SWAP NET CONTROL: VE3TJB Ted Boehlerno
- REPEATER: VE3OCY Don Graziano
- TECHNICAL: VE3OCY Don Graziano
- VE3DC LICENSEE: VE3FHO Glen Gibson
- VE3RCB LICENSEE: VE3OCY Don Graziano
- DESIGNATED EXAMINERS: VE3NYC Paul Hazan
- VE3DKJ Bernie Granby
- VE3GCP Keith Johnson
- VE3SMF Stuart Fedak

- 383-7338
- 383-9808
- 689-6839
- 689-6839
- 527-7175
- 628-4131
- 385-0879
- 529-1603
- 528-4002
- 575-5197
- 575-5197
- 388-8383
- 575-5197
- 578-9266
- 560-1860
- 560-1860
- 385-2786
- 660-1860
- 527-7175
- 528-1603
- 575-5197
- 628-4131

Total Running Time of 7,402 minutes. Number of keyups for the month was 39,145.

To put these figures in perspective, consider that 548 patches works out to over 17 per day, and that the Total Running Time represents one sixth of the number of minutes in January. During our internod problems, there were 79 to 80,000 keyups a month.

For those who haven't heard, Paul is running a repeater of his own on Hamilton mountain. Call sign is (of course) VE3NVC, frequency 146.715 minus offset for input. At present, it's power is 40 watts. It will reach to St Catharines and half-way to Brantford.

CLUB MEMBERSHIP CERTIFICATES AVAILABLE

Membership certificates will be issued on request to current members of the club on a first come first served basis. A request form will be available at the Membership Secretary's desk on regular meeting nights and the certificates will then be available at the following meeting. Requests will NOT be taken by phone.

73 de VE3LTD Paul

HARC MEMBERS

This list is compiled from information available as of 22 February 1992. Please advise the Membership Secretary, VE3LTD Paul of any misspellings, missing call signs or omissions.

VE3AAH	Gordon Barber	VE3BO	George Pope
VE3ACJ	David Sloan	VE3BOB	Robert Ashton
VE3ALQ	Douglas Scherer	VE3BTS	Eugen Pesic
VE3ANB	Richard Leah	VE3BYM	Ralph Tufts
VE3AOZ	Fred Graham	VE3BZE	Don Kouri
VE3ATJ	Linda Ormerod	VE3CBN	Emil Nebesny
VE3ATW	Roger Weiss	VE3CFI	Michael Myatt
VE3BK	Norm Smith	VE3CIG	Jannes Miyasaka
VE3BLG	George Olenick	VE3CKH	Jean Card
VE3BNE	Daryl Sawyer	VE3CNF	John Faber

FROM THE BULLETIN BOARDS . 1

CARF NEWS BULLETIN 03-92 15 February 1992

Issued at CARF Headquarters, P.O. Box 356, Kingston, ON, K7L 4W2
Editor: William (Bill) H. Mason VE3NPFU

ITEM 1. THE GEOLOGICAL SURVEY OF CANADA, is celebrating its 150th Anniversary in 1992. VE3GSC, the Ottawa GSC Amateur Radio Club, is offering a special anniversary QSL card to Hams who make contact with the Club. The club station will be operating on Fridays, from 1700 to 1830 GMT. The station will also be active during international contests. For further information please contact either the custodian of the Club, Alan Goodacre, at (613) 995-5366 (FAX (613) 952-8987) or the 150th Anniversary Office at (613) 996-5763.

ITEM 2. THE SECOND ANNUAL WORKED ALL WINNIPEG AWARD OSO PARTY will be held on Saturday, 11 April, 1992 between 1500Z and 2200Z. Winnipeg Amateurs will be on the following frequencies: 20 metres: 14.150 - 14.165 MHz; 15 metres: 21.330 - MHz; and 10 metres: 28.300 - 28.400 MHz.

We intend to have lots of Hams on that day, to give out contacts toward the Worked All Winnipeg Award. Dick Maguire VE4HK, award Custodian.

ITEM 3. THE GREENWOOD AMATEUR RADIO CLUB is operating the Special Event Station VE1RCAF 1 January - 31 December, 1992 to celebrate the 50th Anniversary of Canadian Forces Base Greenwood, Nova Scotia. The station will be especially active during Remembrance Day, 28 - 31 May, 1992 and ARRL Field Day. For commemorative QSL (and possible certificate) send QSL and SASE (Cnd.) or SA envelope and IRCs to Greenwood ARC, PO Box 63, Greenwood, Nova Scotia, Canada, B0P 1N0. QSLs sent via Bureau will receive QSL card only via Bureau. Lance Peterson, VE1VCL, president Greenwood ARC.

ITEM 4. THE NEXT MEETING OF THE QUARTER CENTURY WIRELESS ASSOCIATION is scheduled for May 9, 1992 at the Mohawk Inn, Campbellville, Ontario, Exit 312, Hwy. 401. Bring a friend.

For application forms and fee information contact: Secretary, Fred Wilkinson, VE2AJW, R.R.#6, Simcoe, Ontario, N3Y 4K5 (519) 582-4814.

ITEM 5. NEW RICs - FREE FROM DOC - RIC-3, Issue 4, 1 December, 1991: Amateur Service; Countries that (1) Forbid Amateur Radio Communications, (2) Permit Third Party Traffic and (3) Reciprocal Privileges. RIC - 66, Issue 6, 1 January 1992: Addresses and Telephone Numbers of Regional and District Offices.

You missed a good one if you missed the FEBRUARY GENERAL MEETING. Sixty-three people, including ten visitors showed up to hear Terry Dwyer from the Mount Hope Weather Office. The technical side of weather recording and prognostication dovetails nicely with our interests - especially the CANWARN system. The Executive has picked up the ball on this CANWARN thing - VE3SON Jim and VE3LTD Paul are going up to see Terry to find out what part the club can play. One warning - anything the Club may undertake in the program will involve an ONGOING RESPONSIBILITY, and only stable, committed people can hope to have any part in it.

While we're talking about the weather, that ONE MAN TORNADO, VE3GCP Fred is planning up a STORM of a meeting for April. Consistent with his positions as Program Coordinator and 60th Anniversary Chairman, Fred has arranged to have the MAYOR OF HAMILTON drop in to the meeting to publicly proclaim that week AMA TEUR RADIO WEEK!! The topic for the April meeting will be Field Day Workshop. There will be a SECRET WEAPON - a visit by the "ULTIMATE FIELD DAY OPERATOR". I have no idea who it is either. VE3OOX Bv has confirmed that the actual Field Day event will again be held at the RBG's beautiful Rock Chapel Sanctuary site.

VE3GCP Fred is planning on having VE3HTF Paul Fleck speak at the March meeting on Cellular Technology. Paul works at Bell Cellular so we can look forward to an excellent talk.

We gained TWO NEW MEMBERS and ONE RENEWAL at the February meeting. Welcome Rick Blythe and VE3HTS John Kaphein as new members. John hasn't been to the Club for half a dozen years, so we consider him new. Rick seems like a personable guy, lets make him feel welcome and give him any answers he needs. Also, Rolly Norton VE3MWG is back in the fold.

Those good folks planning the annual HAM BOOTH OPERATING VE3CNE are in the final planning stages - hats off to VE3IND Evan et al. Our club will no doubt have a couple of days to operate again this year. The executive voted to support this annual event with a donation of \$50.

VE3LTD Paul has arranged to provide ATTRACTIVE CLUB MEMBERSHIP CERTIFICATES. These are SUITABLE FOR FRAMING. In researching lettering options, we found out that one of VE3ANB Richard's many talents is calligraphy - he will be doing the lettering. To cut down on costs, current members are entitled to one certificate ON REQUEST to be picked up at the General Meeting. These have to be seen to be appreciated.

ITEM 11. The Frequency Allocation Committee at WARC 92, according to our delegation's first report, has agreed that the incompatibility of the Amateur and HF broadcasting services should be considered in order to avoid difficult sharing conditions. At last, WARC 92 has recognized the interference broadcasting creates in our 40m band and may do something to resolve it.

Why not go out on a limb? Isn't that where the fruit is?

ITEM 12. A DELEGATE ISSUE

The question of the lack of an amateur to serve on the Canadian delegation to WARC-92 threatens to scuttle the negotiations for the proposed single national amateur radio organization. Hopefully, senior heads in CARF and CRRL will prevail and will continue to meet to map out the final stages of the merger program. However, Canada's amateurs have a right to know CARF's position on this issue.

To put it all in a nutshell, DOC asked CARF and CRRL to jointly nominate one amateur to the delegation. The key word is "jointly". The idea is to work together in a mature and responsible manner. In discussions with key CRRL executives over the past year CARF suggested three respected WARC experienced candidates.

Each is an active amateur! Each is a prominent and experienced career professional in spectrum management matters. Two of these candidates had already served as joint CRRL/CARF CCR Study Group representatives. As was the case with the late Bud Punchard VE3UD, who represented Canada's amateurs at WARC-79, each could be trusted to act in a nonpartisan manner.

CRRL refused to accept any of these ITU/WARC experienced professionals and acted unilaterally insisting to CARF and the DOC that their candidate VE3CDM was the only suitable person to represent Canada's amateurs because of his IARU affiliation. It was "Agree with us or else!"

Without telling CARF, CRRL unilaterally nominated Mr. Atkins VE3CDM in a letter to the DOC. This was ratified by the CRRL Board the day before the historic joint merger meeting at Cobourg, Ontario. CARF was never notified. CRRL sat with us, talked with us, fashioned a merger agreement with us, lunched with us and never once mentioned their action to bypass our right to share in a "joint" nomination to the DOC.

Next, CARF was informed by CRRL that the DARF Fund was created to send Mr.

- VE3ISZ FRED, (416)827-8425
- 3 10MHZ-40GHZ SPECTRUM ANALYZER, MANUALS, SCHEMATICS, SERVICE DATA \$400
- o GEMINI 15X PRINTER W TABLE, SERVICE MANUAL, SPARE PRINTER PARTS \$85
- o 2-DIGITAL SWR WATTMETER KITS LIKE ONE IN 1990 ARRL HANDBOOK. ALL PARTS..NO CABINET \$60 EA.
- o RADIO SHACK BENCH VOLTMETER \$60 OR TRADE FOR ITEM OF EQUAL VALUE
- o QUANTITY OF FLOPPY DRIVES AND PAIR OF NON-WORKING HARD DRIVES

- VE3PKY CHRIS, (416)547-3169
- 2 12V GEL CEL CHARGERS \$6 EA.

- VE3FBE EARL, (519)428-2020
- 2 MFJ VERSA TUNER II, 300W W METER \$75
- o ICOM IC3200A DUALBAND RIG 25W W DUALBAND MAGMOUNT \$475

- SWL BRAD, (416)385-6661
- 1 40CH AM CB RIG \$75

The Swap Shop: Wanted.

To list items: VE3NCF (146.76) Tuesdays 8 pm, OR Call Ted (VE3TJB) 578-9266 or Ralph (VE3BYM) 388-6146 or Rich (VE3ANB) 547-8192, OR Leave message on the VE3DC Packet BBS (145.590 MHz) or via modem on BBS at 575-4745 (pick your password) to Ted Boertamp.

26 FEB 1992

- VE3GVG CAM, (416)662-1184
- 3 COMPOSITE COLOR MONITOR OR RGB TYPE MONITOR

- VE3LMS GRANT, (416)544-4151
- 2 DC-DC CONVERTER FOR YAESU FT411
- o 100 FT OF 5 CONDUCTOR ROTOR CABLE

- VE3JC JILLARD, (416)632-0627
- 2 PAIR OF MCCOY 9MHZ CRYSTAL FILTERS

- VE3OZY RICK, (416)544-3253
- 2 MANUAL FOR AMSTRAD PPC-640D COMPUTER CGA MONITOR

HARC Members (Continued)

- | | | | |
|--------|-----------------|---------|--------------------|
| VE3CNW | Glenn Sawyer | VE3HTA | Gilbert Griffiths |
| VE3COX | Craig Harding | VE3HTC | Dave Rypma |
| VE3DJ | Jock McArthur | VE3HTD | Henry Wile |
| VE3DKJ | Keith Johnson | VE3HTS | John Kapphein |
| VE3DMD | Doug Dorsey | VE3HTU | Richard Hutchinson |
| VE3DNB | Ron Hawkes | VE3IBP | Brian Provost |
| VE3DOU | Peter Goodson | VE3IGF | Robert Fairburn |
| VE3DPC | Frank Gue | VE3ISX | Barry Lisaweki |
| VE3DQU | Alex Lawrie | VE3JAI | Emsley Mitchell |
| VE3DSP | Glenn Simpson | VE3JCJ | Jerry Johnson |
| VE3DTV | Peter Blockland | VE3JCO | John Constant |
| VE3DVV | John VandenBerg | VE3JIO | James Ormond |
| VE3DWF | Dave Brunton | VE3JSJ | Gordon Murray |
| VE3EBT | David Tilley | VE3JSO | Jerry Osborn |
| VE3BGL | Ken Leighton | VE3JTO | Mike Spennik |
| VE3BGT | Les Tohicoe | VE3JTR | Jack Heywood |
| VE3BHI | David Lander | VE3KFE | Leif Thomsen |
| VE3BIK | Pat Brennan | VE3KOT | Mort Paterson |
| VE3BEK | Bernie Granby | VE3KSC | Sue Calpu |
| VE3BFD | John Kassay | VE3KSN | Kelvin Mangaroo |
| VE3BEZ | Peter Walton | VE3KTR | Ken Thrower |
| VE3FHQ | Glenn Gibson | VE3KTV | Spiro Hazaras |
| VE3FMG | Michael Patrick | VE3LMS | Grant Sewell |
| VE3FRJ | Robert James | VE3LOI | Louise Lagace |
| VE3FVK | Frank Krsulich | VE3LSL | Leslea Sewell |
| VE3FYQ | Ward Gilson | VE3LTD | Paul Webb |
| VE3GCP | Fred Robinson | VE3LWD | Wayne Staat |
| VE3GFE | Stan Bollbruch | VE3MIL | Norm Millward |
| VE3GKI | Charles Kerel | VE3MJK | Matt Kunhegyi |
| VE3GKP | Harv Powell | VE3MMC | Ken Gibson |
| VE3GLH | Larry Huggins | VE3MTWG | Roland Norton |
| VE3GVE | Chris Davino | VE3MWH | Mark Gibson |
| VE3GVG | Cameron Hall | VE3NCK | Bill Sawyer |
| VE3HKQ | Doug Bryce | VE3NCM | Ken Mangaroo |
| VE3HLJ | Gerry Goldberg | VE3NYC | Paul Hazen |
| VE3HNG | Al Barker | VE3NYN | Mike Walsh |
| VE3HOD | Bill Nichols | VE3NYX | Renzo Conz |
| VE3HPD | Vic Forde | VE3OCD | Joseph Urtanski |

VE3DKJ Keith gave the fleamarket report. Icom, Kenwood and Yaesu are being invited to attend. Most of the captains have been assigned.

The field day report was given by VE3OOX Everett. He reported that the Rock Chapel site has been acquired for the event. It was decided that a field day workshop will be held on April 15 in lieu of a speaker.

For the education report Bernie Granby VE3EKY reported that the spring session of Basic Qualification classes will begin in two weeks, and that another student sat for and passed the Basic Qualification examination. He commented on the overall high calibre of students in the last class and mentioned one candidate who attained high marks although he was self-taught.

Public relations report: Fred VE3GCP reminded the club members of upcoming events such as the Around the Bay Road Race on March 22, Salvation Army's Red Shield Drive on May 4th. He urged club members to start volunteering for these events immediately. City Hall has been contacted about proclaiming Amateur Radio Week in Hamilton. Fred VE3GCP is asking club members to suggest suitable dates for this proclamation. Negotiations for space in the Wentworth Seniors Center continues. VE3GCP Fred will report to the club on this subject sometime in the future.

Flore presented gifts to the speakers at the last club meeting and thanked a number of people for the fine work they are doing for the club.

VE3OZY Rick Danby announced that he is entering the 160 meter contest and will be using the club call sign VE3DC.

Motion for adjournment was made by VE3EKY Bernie and seconded by VE3GCP Fred. Carried. The meeting ended at 10:25 pm.

E.A. Mitchell VE3JAI
Secretary

DESIGN AND BUILD AN INVISIBLE 20 METER BEAM

by DON KOURI, VE3BZE

This project will show the reader how to design and build a 20 meter 2 element wide spaced parasitic yagi antenna for under \$5.00. The antenna has a forward gain of 4.5 dB, good front to back ratio, 52 ohm impedance, full size elements, broadbanded, and doesn't require a tower or rotor.

Typical construction of a 2 element yagi is shown in fig 2. The antenna consists of two elements - a driven element for feedline attachment and a reflector. The two elements are separated by a distance of .22 of a full wavelength. Commercial yagi manufacturers install a boom on their yagis to obtain the necessary separation between the elements.

Since the majority of homes have a pitched roof, the pitch can be used to full advantage towards the construction of a fixed beam. The spacing (S) between the elements can be obtained as shown in fig. 3 by installing the elements between the roof peak. The #14 awg insulated wire elements are simply run across the flat of the roof as shown in fig. 1 with each of the ends drawn taut and fastened to the face boards on each side of the house. A multiple of a 1/2 wave of 52 ohm feedline is attached to the driven element and run into the shack. All specifications and dimensions are shown in the accompanying chart. (SEE LAST PAGE)

DESIGN CALCULATIONS FOR 2 ELEMENT WIDE SPACED 20 M BEAM

Calculate the length of driven element (dimension D) for a resonant frequency of 14.150 MHz.

$$\text{Length D} = (468 / 14.150) / 2 = 16' 6''$$

Calculate the length of reflector (dimension R). A reflector is usually cut 5% longer than the driven element and resonated for the lowest frequency of operation. The reflector is to be resonant at 14.125 MHz.

$$\text{Length R} = (468 * 1.05) / 14.125 = 34' 9.5''$$

Calculate spacing between elements for .22 wavelength (dimension S).

$$\text{Spacing S} = (984 * .22) / 14.150 = 15' 3''$$

Calculate length of 52 ohm feedline.

Feedline length (each 1/2 wavelength) = $(492 * VF) / 14.150$

The antenna can also be fed with 450 ohm ladder line to a tuner for maximum efficiency.

VE3EKY BERNARD GRANBY AWARDED ORDER OF MERIT

In recognition of his dedication and prodigious effort in training and bringing new amateurs into the fraternity, Bernie Granby VE3EKY has been awarded the prestigious Order of Merit by the Hamilton Amateur Radio Club.

The new members and new hams who have taken Bernie's amateur radio licence course need no explanation of his effort - many of them signed a letter to the President expressing thanks for Bernie's dedication. For the others who may not know, he has organized and taught many students in several courses over the past two years. He created the course outline himself and spent countless hours of his spare time finding out where his students needed to concentrate. He personally guided them through the process of learning the material. If local telephone calls were chargeable, his course fees wouldn't cover the cost of his conversations to students. An indication of his dedication is the fact that he has arranged to come to the meeting hall an hour early on General Meeting nights to teach anyone willing Morse Code. He is arranging for an Advanced course, probably to start in the fall.

The result of his work has been at least a 25% increase in club membership (his graduates), and many well-prepared, mostly young, new amateurs. Bernie has positively influenced Amateur Radio in a tangible way.

MINUTES - HAMILTON AMATEUR RADIO CLUB GENERAL MEETING

19 FEBRUARY 1992

The regular monthly meeting of the Hamilton Amateur Radio Club (HARC) was held at the Nash Auditorium at Chedoke Hospital. The meeting began at 8:11 with Fiore Manga VE3OQG presiding. Fred Robinson VE3GCP introduced the guest speaker, Terry Dwyer whose topic was "Modern technology in weather forecasting".

Mr Dwyer began his presentation with a slide show of all the instrumentation used in the collection of weather data at the Mount Hope weather station. A detailed explanation was given of the construction and function of each of these instruments, and how weather reports are processed. Terry then showed a video which described the activities of CANWARN. Canwarn as the name implies is an early warning system for severe weather conditions, tornadoes for example. Volunteer Ham radio operators act as spotters over a prescribed area and call in information about a severe weather condition to a central net. This facilitates tracking of the weather disturbance and early warning for residents of that area. The HARC was urged by Terry to become involved in this project. The presentation concluded with a question and answer session. There were a number of pamphlets on various subjects relating to the weather that were available at the front of the room. Two weather balloon radio transmitters were passed around the audience for scrutiny.

Fred Robinson VE3GCP thanked Mr Dwyer for his presentation and the meeting broke for coffee at 9:20 pm.

The meeting was called to order by Fiore VE3OQG at 9:47 pm. He welcomed the members, visitors and old friends from Burlington to the meeting.

OLD BUSINESS

The minutes of the previous meeting were read by Emsley VE3JAL. This was followed by the Financial report given by the treasurer Mark Gibson VE3MWH.

Mark VE3MWH reported that there was \$6,334.84 in the club's account as of February 11, 1992 with \$360.85 in outstanding cheques.

NEW BUSINESS

VE3SON Jim reported that a new source of envelopes has been found. These envelopes are large enough to accommodate the bulletin without being folded.

Fiore mentioned that two members of the club, Robert Clarke VE3ANW and Bill Sawyer VE3NCK were not well at this time and wished for them a very speedy recovery. The club will send get-well cards to both members.

Membership report was given by VE3DKJ Keith on behalf of the membership chairperson VE3LTD Paul. Keith reported that there are currently 168 members (including family members). Two new members and one renewal were taken tonight.

HARC Members (Continued)

VE3OCM Odile Mangaroo	VE3TYM Mike Reeve-Newson
VE3OCY Don Graziano	VE3VEH Arie Verhoog
VE3OGQ Mary Urbanski	VE3VFR Norm Sanger
VE3OIN Ken Redfern	VE3WAG Jack Campbell
VE3OIW Max VanderLubbe	VE3WOW Wally Owsianik
VE3OIX Lea Leslie	VE3WRG Greg Wood
VE3OIZ William Leslie	VE3WVC Bill Court
VE3OKA Carl Frohman	VE3WWJ Bill Watson
VE3OKT Dave Burla	VE3XCR James Smith
VE3OQG Fiore Manga	VE3YAG Richard Appleyard
VE3OQX Everett Englert	VE3YOC Mary Graziano
VE3OZE Wade Buzanko	VE3YOH Yohann Calpu
VE3OZH Leonard Elise	VE3YUM Erin Hall
VE3OZY Rick Danby	VE3ZF Ed Charlesworth
VE3PKL Patrick Kaine	VE3ZKO Norm McDonald
VE3PRM Don Dawson	VE3ZNB Norm Bdinka
VE3PTJ Paul Julie	VE3??? Harry Jowett
VE3PUJ Kurt Vogel	VE3??? John Hosszu
VE3RBH Ruth Hawkes	VE3??? Neil Galloway
VE3RKK Robert Komarniski	VE3??? Ole Magnusen
VE3RMA Ron Moore	VE3??? Sam Isram
VE3ROJ Russell Wilson	VE3??? Zenon Holadyk
VE3RW John Card	VE3??? Andy Deli
VE3RZF Ron Shepherd	Tony Manga
VE3SBP Steve Mandula	George Bridges
VE3SCH Konrad Schmoll	Arthur Swayze
VE3SDY Lou Divincenzo	Vera Gibson
VE3SDZ William Reynolds	Sheran Devotta
VE3S JL Nick Spanjevic	Vic Spafford
VE3SMF Stuart Fedak	Wil Mewes
VE3SSON Jim Walsh	Bernie Gelber
VE3TEJ James Thomas	Jean Mahoney
VE3TJB Ted Boerkamp	Vito Delviccio
VE3TNW Tony Wallace	Rick Blythe
VE3TOW Don Blain	Kenneth Johnson
VE3TTH Scott Hamilton	Greg Stopelli
VE3TTO Gary Notto	

To list items:

VE3NCF (146.76) Tuesdays 8 pm. OR Call Ted (VE3TJB) 578-9266 or Ralph (VE3BYM) 388-6146 or Rich (VE3ANB) 547-8192, OR leave message on the VE3DC Packet BBS (145.590 MHz) or via modem on BBS at 575-4745 (pick your password) to Ted Boerkamp.

Items accepted should be related to the enjoyment of our common hobby, Amateur Radio - this has been interpreted to include also computer equipment, C.B. and other electronic gear that can be used or converted to Amateur Radio use. All prices are negotiable unless otherwise stated. Listings are read over the air for four weeks, published once in The Hamilton Amateur, and posted on the packet and computer BBS VE3DC (sysop VE3JSJ Gord) 145.890 and 575-4745. The Swap Shop meets every Tuesday evening, except the summer months at 8:00 p.m. on VE3NCF 146.760. During the swap shop, a telephone number is usually provided for those without 2 meter capabilities (SML's, new hams) to provide access to the net. Number in front of listing is number of weeks already on.

26 FEB 1992

VE3JIS JACK, (416)648-6443

1 UNIDEN 2510 10M RIG \$325

o HALLICRAFTERS SW500 HAM BAND + SHORTWAVE RECEIVER \$75

o DRAKE TH22C 2M MOBILE RIG, 12CH, XTALS FOR LOCAL RPTRS, MIC, MANUAL \$95

o D104 MIC \$60

o CHANNEL MASTER ROTOR AND CONTROL \$60

VE3LMS GRANT, (416)544-4151

1 COMPUTER PWR SPLY BY CONDOR, 120 WATTS, HAS +5VDC +24VDC AND -12VDC OUTPUTS, BRAND NEW IN BOX \$30 O.B.O.

VE3ANB RICH, (416)546-4734 WORK# OR AUTODIAL 10

3 KNWD PC1 PHONE PATCH, 4 PIN TYPE \$55

VE3OZY RICK, (416)544-3253

2 YAESU FT101ZD HF RIG, 500HZ CW FILTER, FAN, MIC, MANUAL \$600

VE3VEH ARIE, (416)389-9259

3 DUALBAND J-POLE ANTENNA 2M/70CM HOMEBREW \$20

o DIAMOND X500 DUALBAND 2M/70CM VERTICAL BASE ANT. \$200

VE3WVC BILL, (416)662-8808

3 DRAKE 550 COMMUNICATIONS TERMINAL, SEND/REC MORSE CODE, REC RTTY + BAUDOT, COMES WITH MONOCHROME MONITOR, BENCHER PADDLES, ALL MANUALS \$250

THE PRESIDENT'S MESSAGE

The February 1992 meeting came as a surprise for change, most executives received a pat on the back for the way the meetings have been done, we like this very much. The attendance has been growing steadily and working together is a pleasure, I hope to have all the seats sold out by June of this year. Your executives are working hard for the preparation, or maybe its the guest speaker of the month.

At the Red Cross on February 26 the chairpersons were acclaimed by applause for their time and effort spent on the club. Paul Webb was quoted in saying "Flore you always say thank-you,". Mary VE3OQG I must say is a great chef. Mr Granby VE3EKY also received applause after two letters written by his students were read, special thanks go out to them as well. Thanks also go out to Terry Dwyer for the presentation at the February Meeting as well as the Mount Hope weather office.

Participants to the Clubs activities should give Fred Robinson a call for the Around the Bay road race to be held in March. I will try to ease the work of Fred Robinson by being appointed to the upcoming Salvation Army event in May.

Where are all the new licence members out there, I need to add more names to my list, please give me a call.

Stay in touch for more events coming up at the March meeting.

73, VE3OQG Flore Manga,
President, Hamilton Amateur Radio Club

BITS AND PIECES

A lot of new amateurs have hit the airwaves in the last year due to the prodigious single-handed effort of VE3EKY Bernie. As if teaching the Basic Course wasn't enough, Bernie is now planning CODE PRACTICE SESSIONS on club General Meeting nights, before the meetings. Everyone knows the meetings are the third Wednesday of the month at 8:00 pm. Bernie is trying to get the building at 7:00, so all these new Basic operators can UPGRADE their privileges. EVEN MORE AMBITIOUS, Bernie plans to arrange for an ADVANCED COURSE in conjunction with the School Board, perhaps at Sir John A MacDonald highschool. If I sound like the guy on TV selling Ginsu knives when I talk about what Bernie does for the Club and Amateur Radio in general, it is because I AM REALLY IMPRESSED with the POSITIVE EFFECT this one person has.

Atkins to WARC-92 as a resource person for the DOC. This was news to us! What happened to the idea that it was to fund the amateur selected to serve? CARF was also informed by CRRL that if DOC chose a CARF supported person, then monies from the DARF Fund may be denied to that person. Not nice at all! CARF was a faithful supporter of the Fund but had no say in its creation or in its management. CRRL did!

The head of the Canadian government delegation to WARC-92 assured CARF that there were experienced and knowledgeable amateurs on the delegation who would look after amateur radio interests at the WARC. While we appreciate the DOC's help and assurances, it left little comfort. Our need and our pride demanded a "jointly" selected amateur for Canada's delegation.

We in CARF apologize for this nonsense! However, we did try very hard for a reasonable compromise! In the end, VE3CDM went to WARC-92 with the IARU headquarters delegation anyway, and Canada's amateurs were denied a WARC experienced career professional on their national delegation at the big event in Spain.

We must not end on a negative note! WARC-92 will soon be history. The creation of a single national organization is long overdue. We must devote all our energies to the problems of the real world and most certainly not spin our wheels over issues which could divide us for years to come.

J. Farrell Hopwood VE7RD, President

If you do something important there will always be critics. If you don't like critics, don't do anything important.

73 de VE3VCA Steve VE3GRS at the keyboard

FROM THE BULLETIN BOARDS - 2

ITEM 6. AS PART OF OUR SERVICE TO CANADIAN AMATEURS, The Canadian Amateur magazine is happy to publish, at no charge, club social events and special events, subject to space limitations. Please give a minimum of two months notice. Thanks.

ITEM 7. CONGRATULATIONS TO GEORGE S. WILSON W4OYI the new president of the American Radio Relay League who was elected to office on 17 January, 1992. Mr. Wilson replaces Dr. Larry E. Price, W4RA, who had served since 1984.

Headquartered in Newington, CT., the not-for-profit ARRL is the largest organization of Amateur radio operators, with approximately 160,000 members, in the U.S.A.

ITEM 8. THE NEW JERSEY, U.S.A. SCANNER LAW making it a crime to have in an automobile most 2 metre radios that were capable of receiving police, fire and other emergency services has been repealed. However, any information intercepted must not be used to interfere with any emergency services or in criminal activities. Kentucky is now the only state with a scanner law that restricts Ham operation. Credit W5YI Report.

ITEM 9. WANTED - CARF is planning a listing of Canadian Nets, coast to coast. This information will be used as a CARF Aid and will be printed in The Canadian Amateur magazine and also will be available as hand-outs. Information is needed on the frequencies and times of all nets, swap shops, voice, CW, packet, RTTY, QRP, in fact Nets of every sort. Please send this information to: Roy Kerr, VE3ALK, R.R.#1, PARRY SOUND, ONTARIO, P2A 2W7, who has kindly volunteered to do this for CARF.

SOME DOC NEWS from VE3NR, W. Wilson

ITEM 10. IT WILL BE LATE SUMMER before we know what DOC has to say about the future of the 220 - 225 MHz Band. We are told that it will be included in their forthcoming policy proposals paper on the 30-890 MHz part of the Spectrum. This paper will be concentrating on possible solutions to commercial land mobile congestion in the VHF and UHF bands. DOC will probably mention what has been going on in the States regarding the 220 - 225 MHz band.

Amateurs should certainly expect that this will result in proposals being made by commercial interests that the 220 - 225 MHz band be reallocated to the land mobile service in Canada.

Notes from HARC - 3

VE3OQG Fiore is in charge of the Salvation Army Red Shield Appeal mobile flying squad this year. This event requires a two meter mobile rig, a car to put it in and a driver with both Amateur and driver's licences who is free for the evening. Get hold of Fiore to see if he needs any help.

It's sad to hear that Fred Hammond VE3HC has been laid up for a couple of weeks. Anyone who knows or has met this man realizes he is best described as a living legend. We wish him well.

On an upbeat note, VE3BOJ John Holland will be celebrating his 92nd birthday this April. John is still shovelling his own driveway (thank goodness for a light winter) and walks several blocks every day from his home on West 3rd to the Plaza for his newspaper. John was a radio operator in the First World War, and was torpedoed in the Mediterranean Sea in 1917. John worked as a radio supervisor with high speed Morse for Trans-Atlantic Radio in Drummondville, Quebec, a company later swallowed up by Teleglobe Canada. It's nice to have hams around who were there when code was THE mode of operation. And the question in my mind is: are we actually sending any more useful information via Teleglobe's megabaud rate satellites than we did back then with a hand key?

Best 73 to VE3BOJ John.

TESTING REPORT

The 1 Feb 1992 special testing session produced nine new amateurs: Michael Myatt, Ole Magnussen, Zenon Holadyk, Neil Galloway, Leslea Sewell, John Hosszu, Leif Thomsen, Harry Jowett and Sam Isram. The 12 Feb 1992 testing session produced two new amateurs, Andrew Deil and Patrick Kaine VE3PKL, and one upgrade to advanced, Norm McDonald VE3ZKO.

VE3NCF STATISTICS

We received the following information just in time to be late for the February bulletin. (We welcome articles and information from our members on local affairs such as what follows. Please get the information to VE3DKJ Keith 529 1603 or VE3SON Jim 689 6839 before our deadline of the fourth Wednesday).

VE3NYC Paul has been doing some research on the club VE3NCF repeater. For the period 1 January to 31 January 1992, there were 33 Messages, 548 Patches and :

THE HAMILTON AMATEUR RADIO CLUB

BOX 91215 Effort Square Postal Outlet, Hamilton Ontario Canada L8N 4G4

CLUB MEETINGS:

8:00pm on the 3rd Wednesday of each month except for July & August (special arrangements are often made for the December meeting as well), in the Nash Auditorium, Chedoke Hospital. Non-members & friends are welcome - coffee and donuts on the house!

EXECUTIVE:

Meets at 1930 on the fourth Wednesday of the month, except June & July, in the Radio Room, Red Cross, 400 King Street East.

STATION:

An emergency radio station is maintained in the RED CROSS, HAMILTON BRANCH (400 King East).

MEMBERSHIP:

\$25.00 per year with a common renewal date of September 1. Included is a subscription to the club bulletin. Additional Family Memberships (no bulletin) \$1.

EDUCATION:

Call Bernie (VE3EKY) or Stan (VE3GPB) for information on Amateur Radio training opportunities. Phone numbers are on the front cover. Licence testing on the 2nd Wednesday of the month (with appointment).

REPEATER:

VE3NCF. Located on the Hamilton escarpment it is available for use by any amateur. Input: 146.16 Mhz. Output: 146.76 Mhz. Part of the VE3RPT Link system. Contact a member of the Club Executive for information concerning Emergency use, Autopatch, Mail-boxes, Links etc.

FIELD-DAY:

HARC operates a multi-station site during Field-Day. Contact coordinator Ev Englett, VE3OQX, for information. His number can be found on the front page.

SWAP-NET:

Every Tuesday at 8.00 pm on VE3NCF (146.76/16) except July & August. Contact Ted, VE3TJB if you have items to buy or sell. Swap Shop listings are also available on the club's packet bulletin board station VE3DC operated by VE3JSJ on 145.590 FM.

FLEA-MARKET:

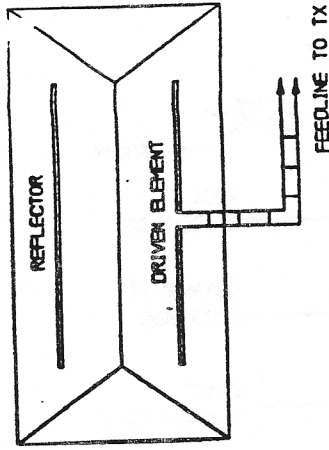
Held during September each year at the Ancaster Fair Grounds. Note that the flea market has both indoor and outdoor sales facilities. Call to reserve tables/power.

BULLETIN:

"The Hamilton Amateur", the official news bulletin of the club, is published 10 times a year and sent to all full club members (family members share a bulletin) during the first 2 weeks of the month (except July and August).

FIG. 1

ROOF OF HOUSE TOP VIEW



DIMENSIONS FOR 2 ELEMENT YAGI

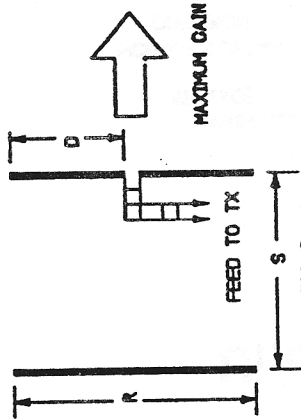


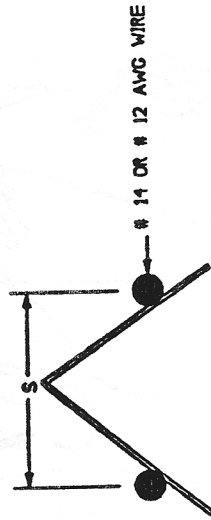
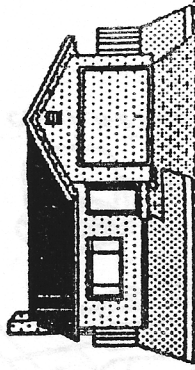
FIG. 2

TOP VIEW

SPECIFICATIONS AND DIMENSIONS FOR 2 ELEMENT YAGI

DESIGNED TO RESONATE AT 14.158 MHz

	22 SPACING	28 SPACING	4.7 DB
FORWARD GAIN	4.5 DB	4.7 DB	
IMPEDANCE	52 OHMS	45 OHMS	
REFLECTOR (R)	3' - 8.5"	3' - 8.5"	
DRIVEN ELEMENT (D)	10' - 6"	10' - 6"	
ELEMENT SPACING (S)	15' - 3"	13' - 11"	



SIDE VIEW OF ROOF

FIG. 3