

Feedback

Monthly bulletin of

The Georgian Bay
Amateur Radio Club



GBARC

The Georgian Bay Amateur Radio Club (GBARC) is based in Grey and Bruce Counties and meets at 8 p.m. sharp on the third Thursday of each month, except July and August, downstairs in the Grey-Bruce Tourist Information Centre at Springmount, just west of Owen Sound.

The club marks its tenth anniversary this fall and winter. It was formed in late 1973 by a core of area amateurs consisting of Dick Shave, VE3BIS; Jim Vamplew, VE3CRV; Jack Avis, VE3DTS and Bill Hardie, VE3EFX.

Since then, the club has grown to about 60 resident and non-resident members.

The Georgian Bay Club operates a 2-metre FM repeater on 146.34 (in) - 146.94 (out) at 1200 feet ASL at Woodford, just east of Owen Sound. VE3OSR is an 'open' repeater and covers the area roughly from Collingwood to Southampton and from Durham to the Bruce Peninsula. Autopatch facilities are available.

The GBARC net meets every Sunday at 0930 local on 3.783 MHz with a rotating schedule of net controllers. Any amateur is invited to check in on phone or CW.

Club officers for 1983-1984

President	Bill Kohlman, VE3NMG
Vice-President	Jack Avis, VE3DTS
Secretary-Treasurer	Jim Harron, VE3BFV
Membership Secretary	Moe Hurlbut, VE3LPT
Program Directors	Don Finlayson, VE3JUO Harvey Smith, VE3FOT
Net Manager	Dave Dixon, VE3DXO
Feedback Editor	Rob Ludlow, VE3AQT
Coffee	Jack Barrett, VE3AUB

Past Presidents

1973-74-75	Jim Vamplew, VE3CRV
1975-76	Dick Shave, VE3BIS
1976-77	Dave Dixon, VE3DXO
1977-78	Ian Trenholm, VE3HIP
1978-79	Ian Sutherland, VE3HXX
1979-80	Don Richards, VE3IDS
1980-81	Harvey Smith, VE3FOT
1981-82	Laverne Wyville, VE3LPD
1982-83	Moe Hurlbut, VE3LPT

Dues

Annual dues for full club membership including a subscription to *Feedback* are \$10.00.

Feedback

Feedback, the monthly bulletin of the Georgian Bay Amateur Radio Club is published monthly and mailed to reach members prior to each regular meeting. Contributions, articles and letters are encouraged and should be sent to Rob Ludlow, VE3AQT, 847 15th Street East, Owen Sound, Ontario, N4K 1X7. Phone 371-1692. Deadline is the first Thursday of each month.

Information

More information on club activities may be obtained from the Secretary-Treasurer, Jim Harron, VE3BFV, RR2 Kemble, Ontario, N0H 1S0 or from the Membership Secretary, Moe Hurlbut, VE3LPT, Leith, Ontario, N0H 1V0, or from any other club official.

Crests

Club crests are designed by and available from Fred Koepke, VE3WF for \$2.00 each.

President's Report

Message from The Tall One.

Senator Barry Goldwater's recent 2-metre teleconference was the first one that I have listened in on and I found it very interesting.

Does Ontario have a similar teleconference? If anyone knows of a hookup, please let me know. If there isn't one, then it would be a great idea for a Sunday afternoon. A thought for our repeater, too.

Senator Goldwater's talk was not very long but he mentioned that ham operators have always been leaders in communications as well as providing a service for the communities in which we live.

Through computers and satellites, as he said: "We haven't seen anything yet." They are the future and the challenge in ham radio today. Indeed, they are the new frontier.

In the September issue of QST, more information is available on the FCC's new proposal to expand the phone bands downwards for U.S. operators.

They plan to expand 10, 15 and 80 metres. Just recently, they moved down 50 kHz on 20 metres. The CRRL has sent a short submission to the FCC but I wonder how effective it will be.

The proposed FCC allocations are as follows:

80 metres

- expand the existing U.S. phone sub-band from 3.775 to 3.75

40 metres

- no change . . . yet. But they are planning expansion here for the state of Hawaii only from 7.1 down to 7.075.

15 metres

- extend bottom of current U.S. phone band from 21.25 to 21.2

10 metres

- extend bottom of current U.S. phone band from 28.5 to 28.3

The CRRL has asked for comment from clubs on this subject, so be prepared to discuss it. The proposal of a DOC counter move to a 3.65 to 3.7 MHz Canadian sub-band is a step in the right direction.

On Labour Day the APES members provided communications for the parade in Port Elgin. VE3EFX and his better half VE3HIP were the main organizers and did a very fine job. VE3KPT, VE3NEG, VE3HXX, VE3BIS, VE3FOT and VE3KOI provided assistance.

73s to all and keep an eye and an ear open on this new FCC expansion proposal.

Secretary-Treasurer's Report

The monthly GBARC meeting was held at the Grey-Bruce Tourist Information Centre on September 15. The Treasurer, Jim, VE3BFV, gave the financial statement showing a bank balance of \$827.37 with \$2.86 in petty cash.

Minutes

The meeting was called to order at 2000 EDT by the President, Bill, VE3NEG with 19 members present.

Under new business, moved by Moe, VE3LPT and seconded by Paul, VE3KOI, that Iain Harris, VE3MAE be appointed auditor for 1982-83.

A letter of resignation from Paul, VE3KOI, the Technical Director, was read and a call for a volunteer to take his position met with no response. The position is still open.

There was also a call for a club member to volunteer to act as custodian for the meeting hall key and club property such as the club banner, displays and Field Day equipment.

There was a discussion on the proposed downward expansion of the American phone bands. A proposal by Dick, VE3BIS to eliminate the sub-bands with phone and CW operation anywhere met with no response.

It was moved by Harvey, VE3FOT and seconded by Ted, VE3AEO that our club would go along with the CPRL submission regarding the redistribution of the phone bands on 80, 40 and 15 metres. All were in favor.

A discussion on subscribing to Orbit magazine published by AMSAT was introduced by Dick, VE3BIS but not enough interest was evident to pursue it further.

A motion by Laverne, VE3LPD, and seconded by Dick, VE3BIS that we continue with the autopatch at VE3KPK's QTH for another year and reimburse him for the telephone charges was carried.

The meeting adjourned at 2124 hrs. and was followed by coffee and donuts.

Dick, VE3BIS, gave a demonstration on antennae design and measurements.

Jim, VE3BFV

Secretary-Treasurer

Editor's Notes

DUES ARE DUE! Dues for the current club year were payable as of September 1 and must be paid by no later than December 31 or membership and Feedback mailings will cease. Copies of Feedback mailed to members not in good standing by December will have their copies of Feedback stamped with a reminder. Getting paid up early also ensures being included in the new club roster.

There was some discussion at the September meeting that the club year be formalized as being from September 1 to August 31 rather than from Jan. 1 to December 31 as it stands now and that dues be \$10 across the board for everyone with no discount or preferential classes or reduction or increase for late or early payment.

Such changes would require bylaw amendments and will be discussed and perhaps voted upon at the October meeting.

Meanwhile, please clip off and use the form on the back page of this issue to renew or start your GBAPC membership.

Also on the back page is an interim net controllers' sked at AEO's suggestion for those who mislaid the original.

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My apologies for not having this issue out prior to the September meeting . . . I hope the August one tided you all over. Don, LZK, who so kindly reproduces Feedback each month, was away until Sept. 10, leaving little time to get an issue printed and mailed in time for the Sept. 15 meeting. I thought it would be better to wait and compile a more up-to-date September-October issue for the October meeting . . . hope to get back on track with the November issue.

By the way, keep the contributions coming. I had a good outpouring at the September meeting . . . hence the slightly larger-than-usual issue this time.

I appreciate the good, clean copy I have been receiving and I hope those of you who have submitted material won't mind it being subjected to a bit of judicious editing and retyping. I am striving for an overall neat, consistent and uniform appearance to a bulletin that I hope we can be proud of.

I have been sending exchange copies out to other clubs and have spotty response but items of interest from other bulletins have been and will be included each month.

With each of the 10 annual issues of Feedback costing about 50 cents each to print and mail, or about half of our annual dues, we may as well get our money's worth.

If anyone is not receiving Feedback who should be, or if you move, or if your address is incomplete or incorrect in club records, let me or Jim, BFV or Moe, LPT know.

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The perennial issue of OSR's location and general function has come up again. Ian, HXX mentioned at the September meeting that the repeater was virtually useless for members and tourists through much of the summer as a result of a combination of no identifier and frequent inversions that produced interference from 34/94 machines in Sarnia, North Bay, Sault Ste. Marie, Toronto and Michigan.

This led again to discussion of a possible frequency change and also a resurrection of the issue of OSR's location and equipment.

An ad hoc repeater committee composed of Ted, AEO; Dick, BIS and Paul, KOI was formed to further explore the issues and report to the next meeting.

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If anyone owns an ICOM 2AT 2m handheld, I have a technical modification article that will permit extension of coverage from 140-150 MHz or from 150-160 MHz (for monitoring only, of course). Let me know if you want to see it.

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Dick, BIS gave an interesting talk on antennas at the September meeting and his love of antenna experimenting came through as he started with basic theory and reminded us of some of those elemental formulae and concepts of resonance that may have faded into dimness over the years.

Dick touched on the importance of and methods of matching, tower construction, beam mounting tips and propagation.

With "appliance" operating becoming more and more common, dabbling with antennas is one of the increasingly fewer areas left open to experimentation for many amateurs - especially those who are less technically-minded and more limited in time, space and money.

Dick pointed out the importance of good, soldered connections and using the largest diameter conductors possible for feedlines and antennas . . . remember that RF travels on the surface of conductors. Give it room to move!

If you're planning a new antenna or just want some other thoughts, ask Dick or Ted, AEO. They're both a fund of knowledge on getting RF into the ether and having fun trying.

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This month's feature story on pages 12 and 13 is also by Dick, BIS on High Technology in 1944. Dick has more 'light' war stories. Let him or me know if you want more . . . I think you'll find this one interesting.

There must be other club members with similar interesting reminiscences of a generation ago, not just of the war but of radio and electronics as well. You don't have to be a great writer or typist . . . just jot down your thoughts and I'll do the rest.

Bits 'n' Pieces

A Kenwood users net operates on Sunday afternoon at 2000Z on 14.317 MHz. The first 20 callers have their inquiries answered by experts factory-trained by Kenwood. (Tnx to Jim, BFV)

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Each Wednesday at 6 p.m. after ONTARS 75 on 3755 the Ontario Trilliums will hold a half-hour net to discuss Trillium business and especially the QSL bureau.

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October 19 is the last set of DOC amateur exams based on the old TRC-24 regulations.

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The STS-9 Space Shuttle mission to be launched at the end of this month will offer the first-ever opportunity to work an amateur in space. Owen Garriott, W5LFL will operate 2-metre FM from Columbia about one hour a day and expects to make about 500 contacts. It's a fair guess there'll be a pileup on him.

He will transmit on alternate minutes between 145.51 and 145.77 listening in between on 144.91 and 145.47 moving up in 20 kHz steps. August QST recommends 40 watts to a turnstile antenna. Monitor WIAW bulletins for more details.

The amateur transceiver to be taken aboard Columbia has been selected but it is not made by a major amateur manufacturer! NASA technical requirements are so stringent that no existing amateur equipment made the grade. The radio must meet stiff outgassing standards because in a pressurized cabin containing pure oxygen, extreme care must be taken with plastics.

The selected transceiver is basically a Motorola MX-340HT with an interface box to allow connection of a lightweight crew headset, an antenna and the astronaut's individual tape recorder.

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The DOC has eliminated the need for most amateurs to keep a station log except holders of Amateur certificates applying for 10-metre phone or fast scan TV endorsements. The DOC has also decided to give Amateur certificate holders temporary advanced privileges for one year if he lives in a place remote from an examination centre. The DOC is seeking comment on special consideration for exams for handicapped candidates.

Also up for comment is a plan to require advanced candidates to know figures and punctuation marks for the code test, now only required for the Amateur test. The DOC is also seeking comment, which it will undoubtedly get, on a plan to drop the licensing of scanning receivers - an absurd requirement that not surprisingly has proved to be an unenforceable bureaucratic nightmare.

Future Meetings

Come out to our next meeting on October 20, 1983 and hear Harvey, VE3FOT give an interesting talk on those "Heavenly Bodies" of our universe. Come armed with any questions that you might have and Harvey will be pleased to come up with an informative answer.

If you read Harvey's most interesting and useful contribution to the August Feedback, I am sure you will not want to miss this meeting. So be sure to come and bring a friend with you.

Advance Notice: At our November 17 meeting, Fred, VE3KPK will speak on "Many Interesting Facts About PTTY" so plan to bring along any questions you might like answered.

73, Don, VE3JUO
Program Director

(Bill, VE3NEG, also plans to have on hand a video tape of the space shuttle at future meeting. Ed.)

Coming Events

October 15, 16 - 1983 - ARES Simulated Emergency Test. Contact Bill, VE3EFX in Tiverton for more info.

October 23, 1983 - London Amateur Radio Club Swap 'n' Shop at the Nordon Restaurant and Banquet Hall on Hamilton Rd. at Commissioners Rd. (southeast London). 9 a.m. to 3 p.m. (vendors in at 8 a.m. - \$5 per 8 feet of table in advance or \$7 at the door - includes admission.) General admission \$3 (under 12 free). Free parking, licensed dining lounge, dining room open for breakfast at 8 a.m. Grand prize is gen. coverage rcvr. Hourly door prizes from 10 to 3. Talk-in on .52 simplex or TTT 147.78/.18. For more info contact Ted, VE3BYD, Dorchester, 519-268-3617. Dick, BIS and Bill, NEG are planning to attend.

November 5, 1983 - 7th annual Newmarket Fleamarket sponsored by the York Region APC from 8 a.m. to 2 p.m. at the Newmarket Community Centre. General admission of \$2 includes door prize draw ticket. Children with parents free. Refreshments available at indoor site. Vendors pay general admission plus \$2 per table. Doors open for vendors only at 6:30. Talk-in on 146.52 simplex and on YPC 147.825 in/147.225 out. Reservations and more info from Geoff Smith, VE3KCE, Aurora 416-727-6672 evenings. (Geoff also is NCS on ONTAPS 3.755 Sunday mornings from 10 to 11 while our net is on. Ed.)

Looking Back

This month marks the 10th anniversary of the founding of the Georgian Bay Amateur Radio Club.

Each month from now on, we will run a few highlights from old Feedback magazines on what was going on in club activities 10 years ago.

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In the November 1973 issue of Feedback from the Grey-Bruce-Huron Radio Club, as it was then called, and with Bill, VE3EFX as editor, there was a rundown on the inaugural meeting of the club held at Georgian College in Owen Sound on October 18, 1973.

Of the 18 attending that first meeting, 14 were licensed amateurs, three were CBers and one was an ex-ham.

The original group included current members Dick, BIS; Verne, BSF; Jim, CPV; Jack, DTS; Dave, DXO; Bill, FOF and Harvey, FOT.

Others attending were Fred, AIU; Bill, BFZ; Bill, DIQ; Hans, EEN; Bill, EFX and Bob, GVD.

That pioneer group also included now-silent keys Cy, DQA and Bill Cox, XM45-2720.

VE3CPV was elected president, VE3BIS vice-president and VE3DTS was the first secretary-treasurer. Club meetings were scheduled for the third Thursday of the month and the weekly Sunday morning 75-metre phone net was born with a proposal for 3.783 MHz at 9:30 a.m.

There was discussion regarding a 2-metre repeater and it was made known that a site was available at Woodford. The repeater council had advised the club that it could pick from frequency pairs 25/85, 31/91 or 34/94.

The original rather cumbersome name was changed to the current Georgian Bay Amateur Radio Club.

And just in passing . . . 10 years ago PSO membership was \$5. It is now \$15, a 300 per cent increase.

GBARC membership was \$3. It is now \$10, a 333 per cent increase.

It cost six cents to mail Feedback then and 32 cents now, a 533 per cent increase.

How much has your income gone up . . . or down in 10 years?

73, Bob, VE3AQT

With old Feedbacks
courtesy of VE3BIS

Outings

GBAPC and the Flesherton Split Rail Festival

by Dave Dixon, VE3DXO

An interesting discovery can be made by looking back through early issues of our monthly publication "Feedback", and talking to one or two club members.

The year 1973 was memorable in that the late Bill Cox, VE3HCQ suggested to Stan Guzonas that amateur gear be displayed in a booth at the Split Rail Festival along with CB, TV and radio equipment.

That year saw the inauguration of both the Georgian Bay Amateur Radio Club and the Flesherton Split Rail Festival.

We have had a similar showing at each succeeding Flesherton event. The club has a shelf-model "split rail" adorned with all the yearly plaques since they were issued.

The display last month marked the 10th anniversary of the club's existence and its participation at the Festival.

All roads lead to Flesherton on the last weekend in September. A parade, fowl supper, road race, quilt auction, square dancing and turkey shoot are just some of the events that took place.

The arena was crammed full of vendors showing off their antiques, crafts of all kinds, paintings, steam engines and exotic goodies for all tastes.

The large crowds each day attested to the interest that was generated by the "something for everyone" promotion.

Our radio station was active. However, more time was spent in dispensing information to would-be amateurs and talking with licensed visitors from other parts of the province. Two who made their presence known were Dorothy, VE3LEM and Burt, VE3NCN.

Sincere appreciation is extended to those who set up the display in the persons of Stan; Walter, FFN; Alex, FTW, and Walter, IYW. They were also on hand to operate the rig or answer questions along with Dick, BIS; Laverne, LPD and Harv, FOT.

Ken Dixon was there with his radio-controlled model car.

Thanks to one and all . . . see you at the Festival next year.

73, Dave, VE3DXO



Photo from the FLESHERTON ADVANCE

Stan Guzonas (left) and Walter Stoyko, VE3FFN at display.

Feature

High Technology - 1944

By Dick Shave, VE3BIS

The Allied armies in Europe were all waiting for the invasion. The 2nd Canadian R.C.E.M.E. unit of which I was a telecommunications technician, was doing its waiting in the most southerly point of the English mainland at Folkestone, a lovely old town where the German gunners on the French side of the Channel dumped their artillery shells from day to day.

The wind off the Channel never seemed to stop blowing. Apart from that, it was a nice little place to get all the vehicles which make up a mobile army maintenance support unit, ready to land on a hostile beachhead.

Many were the problems that go with making the vehicles fit to drive off a landing craft into three or four feet of water on an unknown beach against any kind of weather, as well as an unfriendly host.

The daily routine was up by seven, clean our room in the commandeered hotel, and down to the trucks to check and re-check the complement of materials.

As always, the Army doesn't mind what you do - just as long as you look busy when the C.O. arrives!

Part of our day was spent plugging holes in the vehicles through which sea water would flow when we landed. For every hole we plugged, there were two more waiting to be done.

So, it was very, very nice to break for any reason from this monotony. From time to time the sirens would sound. Why, I don't know . . . we had no place to go.

We had orders to sandbag the truck wheels and a few times we ducked in between the rear axles of the semi.

One advantage of being two miles north of the town was that we missed the cross-channel shelling. But it was also a long walk back from the pubs.

Well, you may ask, what has all this to do with high technology? Let me fill you in on the scope of our unit's purpose.

R.C.E.M.E. stands for Royal Canadian Electrical Mechanical Engineers. The unit was comprised of an armament section (maintenance on artillery guns), a small arms section (maintenance on rifles and handguns), an instrument section (maintenance on observations equipment - binoculars, sighting devices etc.), a recover section (picking up disabled vehicles in action) and last but not least, except in our case, the telecommunications section. We had the finest craftsmen available except in one case - Cpl. Shave, R.A. . . . Oh well, somebody had to have me!

So much for what we are, the prime mover for most of us was the English girls who thought we were all tall and rangy (rangy?).

The prime purpose was far as the C.O. was concerned was to make sure the Brigadier-General's caravan was equipped befitting his rank.

To get on with the story, as winter turned into spring, the German high tech buzz bombs started coming across overhead on the way to London and cities of southeast England.

It was OK to ignore them except when the motor stopped its steady bangity-bang-bang. That meant the bombs were heading for earth and an even bigger bang. This was no fun for the people on the receiving end of these unmanned missiles.

Enter Uncle Sam! With much shouting and good-natured cussing, the U.S. Army added another ack-ack gun installation to the hundreds which peppered the fast-flying rockets every day.

For all appearances, for those of you who may be too young to have heard, the German VI buzz bomb or 'doodlebug' was like a small aircraft with a cylindrical object above the fuselage. The cylindrical object was, in fact, the ram jet engine.

The thing was launched from places like the occupied coasts of France and the Netherlands. The destination was programmed into the guidance system and off it went. At the end of its boarded fuel load it simply dived into the ground and exploded.

I don't know what the explosive load was that they carried but it was enough! The explosive force of these things was tremendous.

I've seen many demolish a whole block of houses. The flying speed was about 400 mph so any allied aircraft that tried to intercept them had to generally be in a position to dive on the craft in order to gain speed.

At our vantage point in the Folkestone 'shooting gallery' we saw many attempts by Typhoon aircraft pilots to shoot them down and I often wondered about this because the concussion felt by the pilots must have been severe.

On a number of occasions the blast from a hit which seemed to us to be no more than black smoke and an orange flash about half a mile away would bowl us off our feet.

The ram jet is a different technique to the jets we see today and used compressed oxygen and fuel. As a matter of fact, I think the jet was a British invention.

I saw both jet bombs and jet aircraft used as a weapon first by the Germans. Maybe we used them too somewhere but I didn't see them. I do remember seeing what we said were 'unusual' planes flying around Farnborough, the British aircraft test centre.

"What do these Johnny-come-Latelys think they can do that the local fireworks crew haven't tried?" We didn't have long to wait.

"Here they come!" The first of the evening barrage. Five hundred feet off the water coming pretty well straight at us.

Lots of shouting from the Yank gun crew. We waited. On came the bomb - about 1000 yards out. "When are they going to fire?"

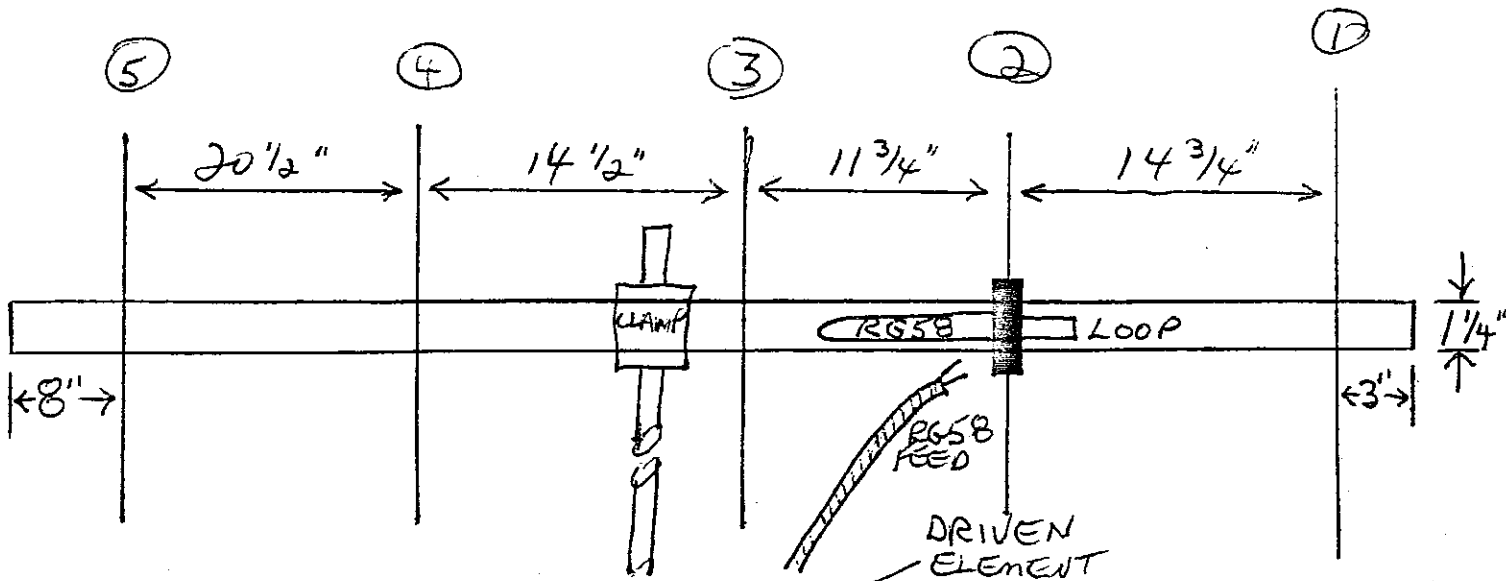
"Kaboom!" The Yanks let fly and lo and behold the buzz bomb disappeared in a big orange blast, first shot. Holy Mackerel! They can't do that again! But by God they did - time after time.

We were in a high technology world of 1944, using shells equipped with proximity fuses, radar and echo detector firing mechanisms. When a shell got close to its target, close enough to inflict a kill, the shell exploded.

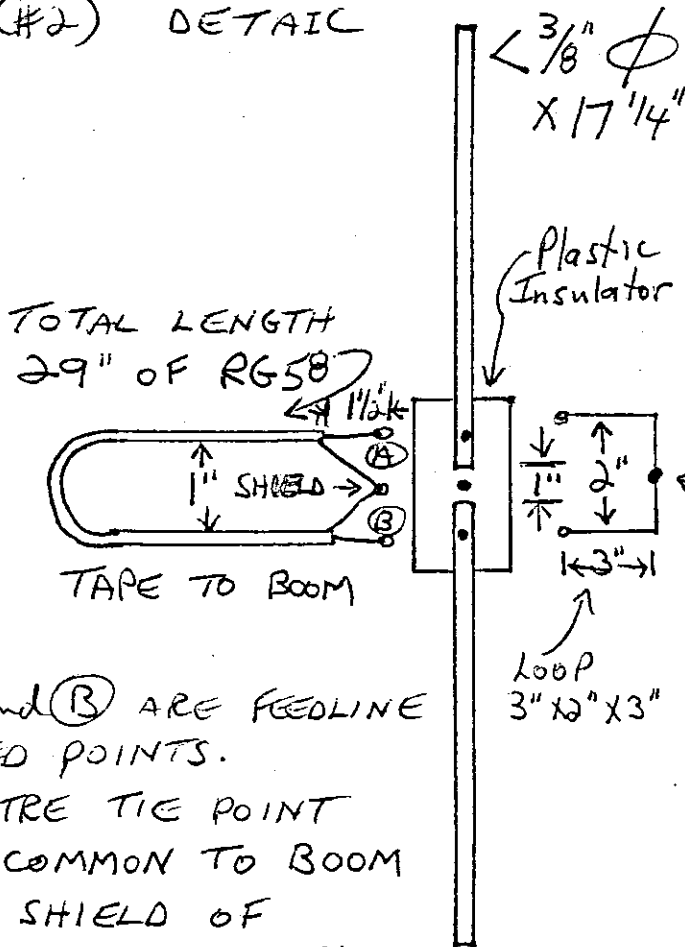
It was high technology which made it all possible - way back in 1944. What a shooting gallery!

V77

A HOMEBREW 2-METRE BEAM by LAVERNE, VE3LPL



DRIVEN ELEMENT (#2) DETAIL



DIMENSIONS and DETAILS

- BOOM 72 1/2"
- ELEMENT #1 40 1/2"
- #2 See Detail at left
- #3 35 1/2"
- #4 35 3/4"
- #5 35"

- 1, 3, 4 + 5 are 3/16" rod
 2 rs 3/8" tube
 Height - 25 feet
 mounted 19" from tower.

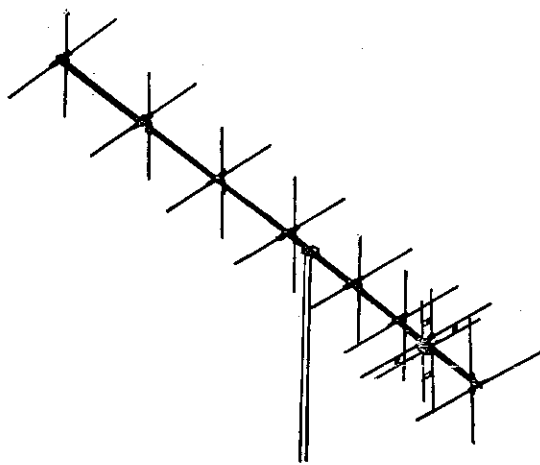
- VSWR = 1.2 : 1
- Back rejection excellent
- Forward gain re 5/8 vertical:
- Meaford to Kemble 18 miles over hills - Reports from VE3BFV and VE3KPK
- 5/8 at 10 watts - S2
- beam at 10 watts - S6
- beam at 20 watts - S8

(A) and (B) ARE FEEDLINE FEED POINTS.

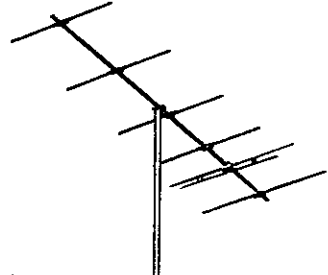
- CENTRE TIE POINT IS COMMON TO BOOM AND SHIELD OF MATCHING NETWORK.
- ALSO FASTEN DRIVEN ELEMENT TO BOOM.

2-METRE ANTENNAS AVAILABLE

Lindsay Specialty Products has dead stock antennas (1978 manufacture) which we can obtain rather inexpensively.



16C-144/150 - CIRCULAR POLARIZED ANTENNA.	
Gain *	10 dB
VSWR	1.3
Polarization	circular
Front to Back Ratio	22 dB
Impedance	50 ohms
Power rating	150 watt
Boom	135" long, 1" OD, .040" wall
Elements	3/8" OD, .035" wall
Antenna weight	15 Lbs



6A-144 - 6 element 2 meter yagis.	
Gain *	9 dB
VSWR	1.3:1
Beamwidth	50°
F/B Ratio	20 dB
Impedance	50 ohms
Power rating	150 watt
Boom	82" long, 1" OD, .040" wall
Elements	3/8" OD, .035" wall
Antenna weight	8 Lbs

The 16C-144/150, a domestic grade antenna, is \$49.95.

The 6A-144 is a commercial grade antenna at \$55.00.

If anyone wishes to obtain either or wants to see about HF verticals, they can contact me at 371-9499.

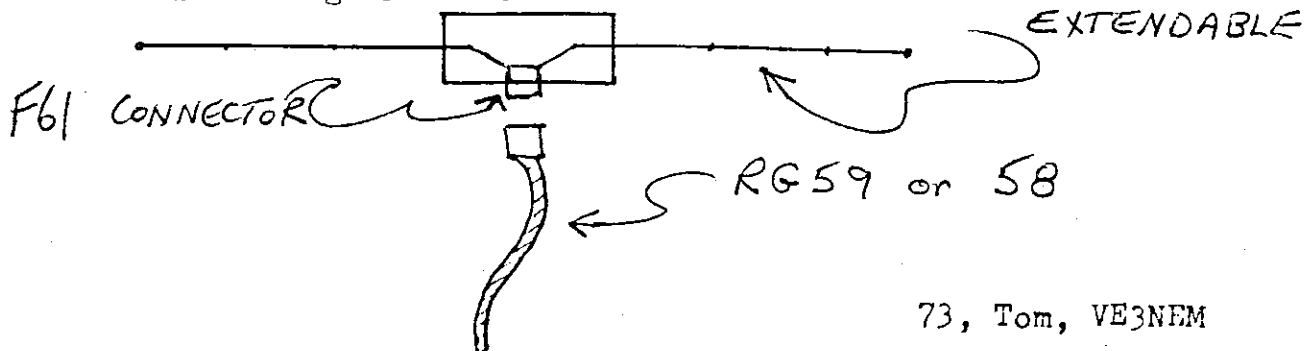
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Also, I made a nice little 1/2 wave dipole for my handheld from a Sony TV rabbit ear set. It's handy because it folds up and the cable can be disconnected easily and put in a backpack etc.

I used RG59 with F59s and an F61 mounted on the plastic base of the dipole. I got a 1.2:1 match so I guess it's working well.

I simply marked the antenna so I can extend it to the proper wavelength when in use. If anyone wishes to obtain connectors etc. I will obtain them at cost.

I can also obtain usable RG59 copper braid and centre conductor in modest lengths free.



73, Tom, VE3NEM

Trading Post

For Sale:

Power supply for bench and battery charging. 5v. to 15v. @ 1 amp. Has panel meter for V and I. \$18.00

Tone Alerts (five-digit number) in black plastic cases. All have individual personal calling plus "one-digit" emergency calling feature. \$67.00

All-band trap dipole for 10, 15, 20, 40 and 80. Only 80 feet long. May be used as straight dipole or inverted vee. \$45.00

50-foot guyed tower. Five 10-foot sections. \$10.00 per section.

Sundry transformers, relays, tubes, components. If you're looking for an item, let me know. I'm cutting down on my inventory.

Repairs to or building of any electronic equipment. If you're short of time, drop me a line. Use your parts or mine. No deal too small to discuss. Xcvrs, power supplies, antennas, beams.

Dick, VE3BIS
797-2401 - Southampton

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Patrolman 3-band VHF/UHF receiver. Radio Shack PR3. Good offer not refused.

Wilson handheld 2-metre xcvr plus touchtone. \$100.00

Drake twins. R4B rcvr/ T4XB xmtr w/ power supply. Good offer not refused.

Drake MN2000 1 kw. matchbox. \$200.00

80w UHF xcvr suitable for UHF repeater. Solid state. \$100.00

50w low band suitable for 10m FM xcvr. 2 channels. Good offer not refused.

GE Prog. Line. 90w. Was a repeater. \$100.00

Walter, VE3FFN
923-3544 - Proton Station

Technical Notes

In non-amateur but nevertheless fascinating technology developments, there is currently a winner-take-all scramble on in Canada for commercial "cellular radio" licences with an Oct. 14 application deadline.

Cellular radio is a technology, also being set up in the U.S., that uses a complex computer-based radio system in the 800 MHz band linked to the telephone system to enable truly portable telephone operation that can be used in cars, by pedestrians or in rural areas not served by the wired telephone network.

Each control station gathers signals from its "cell", an area defined by a specific radius that can be as wide as 40 km.

As the telephone moves from one cell to another, the capture of the signal is automatically switched or handed off from one control station to another. The switching is inaudible to the user.

The system has several advantages over traditional mobile telephones:

- the user dials directly
- simultaneous two-way conversation is standard - there is no need for a send/receive switch
- thousands can use the system . . . current mobile telephone technology is restricted by bandwidths
- calls are made on private frequencies
- the transmission is as clear as if it had been made along standard telephone lines

After watching the pioneering U.S. experience, the DOC has changed its initial plan of awarding separate licences in 23 cities to one of permitting the single winning applicant to serve all the cities. While this will lead to concerns over monopoly and concentration of influence, on the other hand the DOC hopes it will provide a stronger, national and more unified integrated consumer service in the long run.

Cellular radio is expected to be rather pricey initially, especially for individuals, and will therefore not too adversely affect the increasingly concerned radio common carrier industry which now provides mobile telephone and paging services.

The mobile devices may be priced as low as \$1400 by 1985. One firm is already discussing with an automobile maker pre-wiring vehicles for inclusion of cellular radios as a standard option.

Within five years, 70,000 units are expected to be in service in Canada and the potential market is estimated to be worth \$500 million by 1989.

Condensed from the Globe and Mail
Report on Business, Sept. 30, 1983

by Rob, VE3AQT

DX'ing

That great summer may be fading but there's always consolation in the bleak weather ahead for us hams . . . as summer's QRN fades, the season for improved DX and quieter band conditions approaches.

While some of the following information may be up two months old, some of it may still be valid.

Several Turkish stations have been reported on the bands, among them, listen for TA1UA on 21.017. His QSLs go to Box 78, Istanbul.

Also, TA1BO has been sighted on 14.187 at 0100 UTC. His cards should be sent to Box 356, Istanbul. Warning: Make no mention of amateur radio on the envelopes.

J5HTL in Guinea Bissau can be found irregularly on 21.348 at about 1800 UTC. QSL via AM3CXS. (Westlink Report)

FB8ZP on Amsterdam Island can be found daily near 14.22 from 1100 UTC on. QSL via F6KNO. (Report from VE3FPA via Windsor club bulletin).

ZL1AMO plans to be on Niue Island until Oct. 15 with the special callsign ZK9RW. QSL via his callbook address.

OA4PQ in Peru has been on 14.050 CW at 0230 UTC. QSYs to 14.085 from 0300-0500 UTC with PTTY and ASCII. QSL to his callbook address.

XU1SS is active in Cambodia. Propagation is often poor to this neck of the woods but the JA boys have reported him as being on both 15 and 20 metres. Try 21.095 around 0315 UTC, 14.025 around 0800 UTC and 21.025 around 0000 UTC. (Report from VE3BX via Chatham club bulletin).

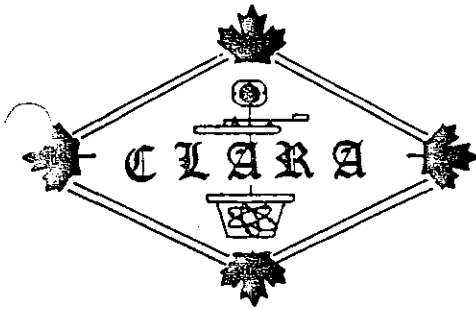
* * * If you have any up-to-date tips, sources of information or experiences with DX, please submit them to Feedback for this column for the benefit of DX hounds and those who just like to listen a lot.

Compiled by Rob, VE3AQT

* LATE FLASH * . . . it's here because there's no room anywhere else!

Tom, NEM, and Norm, MTV, have started a CW net for those who want to get regular practice with regular fellows. It's 3.7 MHz on Mondays at both 7 a.m. and 8 p.m., whichever is more convenient.

Contests



Canadian Ladies' Amateur Radio Association

1983 CLARA AC-DC CONTEST.

Sponsored by the Canadian Ladies Amateur Radio Association.

STARTS: 1800Z SATURDAY OCTOBER 22, 1983

ENDS: 1800Z SUNDAY OCTOBER 23, 1983

The AC-DC Contest is open to all YL and OM Amateurs. Each station may be worked twice, either once on CW and once on phone, or on two different bands. Exchange signal reports, QTH and name. Bonus stations will operate in each province and will identify. Suggested frequencies: PHONE -

28.488 28.588 21.300 14.160 14.280 7.150 3.775 3.900

Suggested frequencies: CW -

28.035 21.035 14.035 7.035 3.690

CLARA MEMBERS score 1 point per contact with non-members, 2 points per contact with CLARA members, and 3 points per Bonus station. Multiply by two for contacts made on CW. (ie., Bonus station contact on CW counts as 6 points) Multiply total of the above by the number of Canadian provinces/territories worked for total score. NON-MEMBERS count points the same EXCEPT only CLARA member contacts are to be counted.

AWARDS: CLARA winners:
1st place, "CLARA CUP" and certificate.
2nd and 3rd place, certificates.
NON-CLARA winners:
1st place, Plaque and certificate.
2nd and 3rd place, certificates.

All logs submitted are eligible for the Mini prize draw.

Mail all logs and scores with your name, call, address and postal code, by DECEMBER 15, 1983 to:

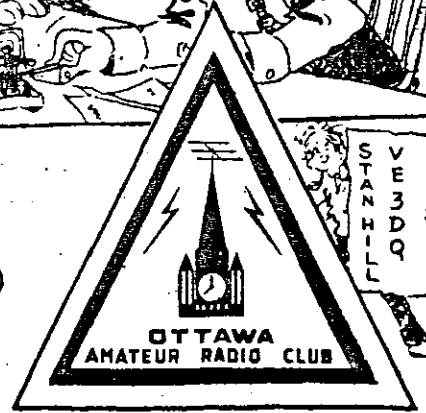
Muriel Foisy - VE3LQH
Box 122
JANETVILLE, Ontario
Canada. LØB 1KØ

How's this for a fancy bulletin cover?

The Official Bulletin of the OTTAWA AMATEUR RADIO CLUB INC.

Box 8873, Ottawa, Ont. K1G 3J2

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VE3DQ
STAN HILL

Net Control Schedule

You may have mislaid your last copy of Feedback with the full net control schedule in it, so, as a result of a sensible suggestion from Ted, AEO, here is the current rotation of net controllers until the November issue comes out. Changes or deletions should be co-ordinated through Dave, DXO.

Oct. 16	LPT	Moe
23	BFV	Jim
30	AEO	Ted
Nov. 6	IDS	Don
13	HXX	Ian
20	LPG	Mal

* * * *

DUES ARE DUE!

Just a reminder that dues for this club year were payable as of September 1, and memberships carried over from last year as well as Feedback mailings will cease if payment is not received by December 31.

Membership for the Georgian Bay Amateur Radio Club is \$10 per year. Please fill out the form below to make bookkeeping easier for the secretary-treasurer, to ensure the accuracy of club records and to make sure you get Feedback each month.

Forms and dues can be mailed to the secretary-treasurer, Jim Harron, VE3BFV, RR2 Kemble, NOH 1S0 or brought to the next meeting.

Renew early to ensure inclusion in the new club roster in January.

GEORGIAN BAY AMATEUR RADIO CLUB

1983/84 Membership Form

NAME (please print) CALL

ADDRESS TOWN

POSTAL CODE ADVANCED AMATEUR SWL

TELEPHONE PHONE PATCH: YES NO 2m