

Sept 2000

FEEDBACK



The **OFFICIAL** Newsletter
of the
**Georgian Bay
Amateur Radio Club** Inc.

P.O. Box 113, Owen Sound, Ontario N4K 5P1

GBARC Meetings are held
on the 4th Tuesday of every
month except July and
August in our CLUBHOUSE,
Unit 6 Rockford Plaza,
Rockford On. 5km S of Owen
Sound. 7:30 p.m.

Breakfast Anyone?
Any Saturday 9:00 a.m., at
the Rockford Esso.

Nets
80 metre net on Sunday at
9:30 a.m. on 3.783 Mhz.
Two metre net on Thursday
at 9 p.m. on VE3OSR
146.94-Mhz.

Submissions
are always welcome.
Send them to
Tom

This Month

Message from the President

GBARC Picnic

Minutes of the last meeting

Mailbox

President
Bernie
VE3BQM



**Vise-
President**
Bob VE3XOX



Secretary
Susan VE3TLK



Treasurer
Bob VE3LKD





The Presidents Message

Greetings to all radio operators.

I would like to take this opportunity to thank all that joined the GBARC executive to the first BBQ party, this event was a great success on August 13, 2000 at the clubhouse, all that attended enjoyed a beautiful sunny day playing horseshoes, testing the donated 2mt all mode radio for the site and indulging on the HF nets.

I would like to take this time to say thank-you to all that brought food and drinks for every one, making this event the best social yet. We all left with a full stomach, yum yum. Your involvement in asking other Amateur and or friends to join us was very appreciated, new faces were noticed in our clubhouse, the clubs members ultimate goal is to have fun and at the same time increase participation so that we can keep our clubhouse active.

The next event will be the Terry Fox 20th anniversary Run that will be held at Harrison Park again this year on Sunday September 17, 2000, 1pm until 4pm, Gene VE3IJD may be running for this cause, please find it your heart to support him with a pledge. The club was also asked again this year if we would donate our time to provide communication along the route of the run, we will meet in the parking lot at 11am, yes this means we require your help to do this, and the job is simple, members are placed along the route and are there just in case runners have problems and require assistance, allowing us to inform the starting point of the emergency or problem, or just cheer Gene on during this run. Bring a portable radio if you have one, if you have more than one bring it if you wish to loan it to someone without one.

New buddy system program

We are all in communication but when it comes to the internet email not all our members receive our communication, with your help, this can be resolved by adopting a buddy system, meaning, if you receive any email pertaining to club business or activity's, you adopt a member of your choice from the members list without email and contact one of them on the phone or radio and pass the information, keeping them informed.

On September 23-24 Split Rail Festival will require your help to help with the station and giving the public information regarding our hobby, let give Stan VA3ZON a hand with this event again this year. October 21 JOTA, lets have the scouts over to the clubhouse for this event and lets have a 2nd BBQ for all at the same time, stating at noon and the supper at 4:30 pm, no shortage of operators to assist the scouts. More details to come stay tuned.

November 4 is a tentative date for the Telesat tour, more details to come.

CW training will commence soon, Joe VA3JNA will be handling the arrangement and will be commencing this month, dates and time will be presented at the September 26 club meeting.

In the next few meetings we will have presentations from,

September Va3dvp

David Pearce will present Station HCJB in Equador,
then in October Va3pm

Pierre Mainville will present ARES & Traffic Handling.

Let's welcome them to our club.

If you have any activity, projects, or just a get together that you would like to share with others, post it on the daily planner calendar located on the clubhouse wall across from the washroom.

Note: The Clubhouse is rented every First Tuesday evening of the month starting in September.

If you know other organization that can benefit of our meeting room and would like to rent it, contact me, this will also reduce our expenses.

Enjoy what remain's of our nice weather for your antenna projects. 73 VE3 BQM

GBARC PICNIC AUGUST 2000

Sunday, August 13, 2000, The Georgian Bay Amateur Radio Club gathered for a picnic at the Rockford club house. Here are some informal photos of the event.
photos by Bill Dowkes, VE3DIQ









GEORGIAN BAY AMATEUR RADIO CLUB

Minutes of meeting, June 27th, 2000

Meeting was called to order by Bernie VE3 BQM at 7:30 P.M.

Motion to accept minutes as written was made by Joe JNA and seconded by Jack DTS.

Treasurer's report was prepared by Jim CJM and presented by Bob LKD. Bank balance is \$4,917.34. The tent and toilet expenses were taken out before the total.

Old Business

Bernie BQM thanked the members who worked on getting the clubhouse ready for July 1.

Bob XOX asked for ideas to help the clubhouse committee.

Field Day was a great success. The pot luck supper was enjoyed by all. A special thank you to hosts Gene IJD and Randy.

The order for the new crests at \$5.00 each (a reproduction of the old crest) has been delayed until the new crest has been approved. Most members wanted a brighter colour and will consider looking for another supplier. A motion was put forward to put the crest order on hold for the present time. All voted in favour.

New Business

Gene said that Field Day was a success and suggested the money paid by members for the rental of the tent be returned to them and the cost be paid by the club. A motion was made by Bert VA3 AEG and seconded by Dieter DST. The motion passed all in favour.

The Cyclone Bike Tour is coming to town Saturday July 1. They may request our help.

Bob XOX thanked the ladies for turning out to participate on Field Day. Two new members joined Field Day. Welcome to Mary VAE 1LT and Tex VE3 USI.

There will be a Canada Day Contest set up at the clubhouse using an HF Rig. It will be from 8:00 P.M. Friday June 30 to 8:00 P.M Saturday July 1.

It was suggested for next Field Day that a meeting be held at that time rather than 2 days later.

A thank you letter will be sent to the Sydenham Sportsmen for use of the trailer.

For those members who don't have Email, they will be phoned or notified in some other manner about upcoming events. Suggestions were given to provide lessons on using email and accessing the computers at the library, community computer services in some schools or set up a BBS system at the clubhouse.

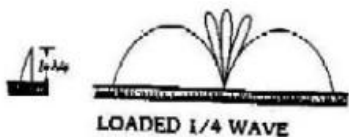
The 50/50 Draw was won by Henry UWD - \$18.00. He donated his winnings back to the club. Thank you!

Moved to terminate the meeting by Jack DTS and seconded by Henry UWD at 8:00 P.M.

ELECTRICAL TYPES

To determine the best mobile antenna type to use in a particular installation, you should first be acquainted with all the electrical types available. Keep in mind that not all types are available in all mechanical configurations and frequencies.

Loaded 1/4 wave (NLA, NMO & PO series)



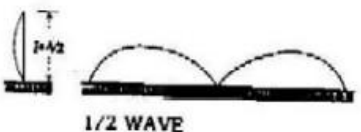
The loaded 1/4 wave type antenna is electrically a 1/4 wave, while being shorter than a full size 1/4 wave antenna. This is accomplished with a loading coil that places a portion of the electrical length of the antenna in a coil located at the base of the radiating element. The efficiency of the antenna depends on how much of the electrical length is inside the coil (and therefore not radiating). Typical gain is comparable to a full 1/4 wave where the full 1/4 wave is mounted on the fender and the loaded 1/4 wave is mounted on the roof. Typical length at lowest recommended frequency is 49".

Full 1/4 wave (all series except KG)



The 1/4 wave is a single radiating element 1/4 wavelength long. It is the simplest and least expensive type of antenna. Length varies from 54" long at 66 MHz to 3" long at 800 MHz. The 1/4 wavelength antenna requires no loading or matching coil. Typical gain is 0 dBd when mounted on a suitable ground plane.

1/2 wave (KG, MHW, NLA, NMO, OM & PHW series)



The 1/2 wave antenna is a single radiating element 1/2 wavelength long. Because the end fed impedance of the antenna is not suitable for matching the radio, an impedance matching transformer is used at the base of the radiating element. Length varies from 49" at 120 MHz to 12" at 450 MHz. The 1/2 wave antenna is suitable for use where no ground plane exists. The gain with no ground plane is 0 dBd. Gain with suitable ground plane is 2.4 dBd.

5/8 wave (LA, LM, NLA, NMO & PO series)



The 5/8 wave antenna is a single radiating element 5/8 wavelength long. In single element antennas the 5/8 wave antenna has the best performance (3 dBd) when mounted on a suitable ground plane. Element length varies from 54" at 136 MHz to 32" at 220 MHz. Since the end fed impedance of a 5/8 wave antenna is unsuitable for interface with a radio, an impedance transformer is used at the base of the rod. The antenna must be mounted on a suitable ground plane.

Collinear 5/8 over 1/2 wave (all series) Collinear 5/8 over 1/4 wave (all series)



These collinear designs have two elements separated by a phasing coil. The top element is a 5/8 wave and the bottom element is either a 1/2 wave or 1/4 wave. Gain is typically 5 dBd for the 1/2 wave lower element and 3-4 dBd with the 1/4 wave lower element when mounted on a suitable ground plane. Antenna length is 23" to 29" at 450 MHz depending on the lower element. The end fed impedance matches the transmitter's impedance, so no transformer is used.

Collinear 5/8 over 5/8 wave (MHW, NLA, NMO, OM & PHW series)



This collinear design has two elements separated by a phasing coil. Both top and bottom elements are 5/8 wavelengths. Gain is typically 5 dBd when mounted with or without ground plane. Collinear element length is 33" at 450 MHz. The end fed impedance does not match the transmitter's impedance, so a transformer is used.

From The Mailbox

THE **BRUCE AMATEUR RADIO CLUB NEWSLETTER**

IS NOW POSTED 73 DE JIM COVERLEY VE3OVV

<http://www.brucearc.on.ca>

THE **RADIO H.F. INTERNET NEWSLETTER**

<http://www.anarc.org/cidx/radiohf/index.html>
