

March 81

Vol 7#5

# Food Back

## VE3OSR

146.34 - 146-94



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**Harvey Smith, VE3FOT**

**Vice. Pres:**

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**Sec.-Treas:**

**Jack Avis, VE3DTS**

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**Jim Harron, VE3BFV**

**Technical Director: Don Richards VE3IDS**

Send Feedback correspondence to- Georgian Bay Amateur Radio Club  
General Delivery, Owen Sound.

The President's Message

Sorry I was late getting copy in to the Editor from my part-time QTH in Timmins for the February issue, so any comments I may have had about the January meeting would now be ancient history, except to say it was another good meeting, in part, thanks to the continued good attendance of the members.

The February meeting was again well attended. Unfortunately, the video machine at the school was the wrong size and type for the tape that Dick VE3BIS was going to present, but a good time was had by all with a good eyeball between members. The V.P. was in the chair and in spite of the foul-ups, kept the meeting on track.

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Moe, VE3LPT tells me we have a good meeting scheduled for this month. It has been suggested that the 19th is a bad choice for the meeting, due to the elections on the same day. The conflict had occurred to me but in thinking about it, I felt that there were few of us directly affected by the political process; habif, being what it is, we have tried to keep the meetings scheduled for the same night every month.

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The snowmobile rallies were reported to be a complete success, no thanks to yours truly. I was sorry to have missed them. They have become the highlights of the winter season, and I am sure that all our members who took part in them had a lot of fun, in spite of those characters in the race who use a gas-alcohol mixture; (gas in the machine, alcohol in themselves) and disappear between checkpoints.

See you at the meeting!

VE3FOT.

Our Program Director Moe, VE3LPT has arranged for a talk by the Emergency Measures Organization co-ordinator for Grey County, Mr. Bill Hewitt to talk to us at the March meeting. Dick, VE3BIS will also try to get his video tape shown. At the April meeting Mr. Mitch Powell, the President of the CRRL will address the GBARC group. The covers for FEEDBACK have been donated by Walter Walls, VE3IYW

MINUTES

The meeting of THE GEORGIAN BAY AMATEUR RADIO CLUB was held on Jan.19th in the OSCVI in OWEN SOUND,ONT.The meeting convened at 2000 hours. Vice President Laverne,VE3LFD, chaired the meeting. Minutes of the previous meeting were discussed and accepted on a motion by VE3IDS,Don,and seconded by Terry,VE3LPK. There was no unfinished business to discuss. Don,VE3IDS, notified those who are building the GBARC POWER SUPPLY that he had some of the parts. The custom made cabinets looked first class. On a motion from Dick,VE3BIS,and seconded by Don,VE3IDS,the "COMMUNICATIONS BY GEORGIAN BAY AMATEUR RADIO CLUB"cards would be sold at 50 cents each to cover the costs. Dick,VE3BIS,gave a report on the snowmobile rally out of Southampton which was quite a success.

Fred,VE3KPK, brought greetings from MIAMISBURG<sup>A</sup> amateurs and requested more GBARC members participate in the Sunday morning schedule on 7.225 khz.at 1000hours.

Jim,VE3BFV,asked members for any corrections to the membership list that was in the February issue of FEEDBACK.

Harvey,VE3FOT,who has been away for a few weeks reported on the meeting at South Porcupine of the Timmins Amateur Radio Club.They operate two repeaters :one with an antennae on the CTV tower:right in townVE3TIS on 146.34/94;and another one on the tower of the concentrator building of Texas Gulf at Kidd Creek about 15 miles east of Timmins ,VE3TIR 146.460 147.060.The one in town is a  $\frac{1}{2}$  wave ground plane but the location is excellent with upwards of 800 feet available.

The 50/50 draw was won by Ed,VE3GVL.

Due to technical difficulties the scheduled video tape could not be shown. Dick,VE3BIS,has the "COMMUNICATION"cards for sale.

There were 19 members present and one visitor,Walter,VE3LPL,from Meaford. At 2100 hours the meeting adjourned to the A&W for coffee.

submitted by Jack,VE3DTS.

Announcements

The next meeting is on March 19th(election day) at the OSCVI at 2000 hours. The Space Centre Amateur Radio Club at Cape Canaveral will operate a station WB4ICJ to commemorate the Space Shuttle Launch.The station will operate from April 1st to April 15th and from launch to splashdown for sure.Frequencies are 7.280,14.285,and 21.380.QSL's for this operation go to AA4MI for special certificates.

COMPUTER CORNER

Starting with this issue we will attempt to explain a few things that you may be interested in regarding computers. Since they are now appearing in the home in large numbers and are available at a fairly reasonable price, and the modern automobile is using a microprocessor chip to control certain operations and give a number of readouts on the status of the engine etc., we are all affected by the computer whether we like it or not.

First, as many books will tell you, the computer is stupid - it doesn't know anything except what you tell it, but it is tireless and has the ability to come up with an answer in microseconds. It is also very stubborn. If you decide to try to change it's ways, just like some children, it will sit there and absolutely refuse to budge. If you follow a preset plan, though, it will do your bidding without any hesitation whatsoever, and sit there wondering when you are going to ask it to do something else.

Actually the computer does know something. It understands off and on. Not only as in a switch, but when we refer to off and on in this case we are referring to the fact that it does all its calculating and other operations with only a high and (or) low level which we refer to as "1" or "0". Besides the memory, which is really the largest part of a computer, there are a number of registers in the microprocessor chip, which is the heart and real brains of a computer.

We will actually be dealing with what is called a microcomputer which we can call MC for short. A minicomputer is too expensive for the average person and sometimes people confuse the two. Many MC's have a capacity of 64K bytes of memory, which means 64,000 actual memory locations. A byte is composed of 8 bits in the computer we are going to be interested in, although there are some 16 bit machines.

Since the computer only understands a high or low level (the 1 or 0 mentioned earlier), some sort of order is maintained by dealing with each byte, or 8 bits, as a separate unit and with the various combinations of these bits being high or low we can have 256 different combinations from "00000000" to "11111111". The actual value of a 1 is different depending upon where it is in the line. Starting from the left side of the line, the first value is 128, the second is half that or 64, and so on until the one at the right, which is the same as our decimal system, or "1". The above is called a "binary" system.

More about computers in next month's bulletin, but think about the fact that our decimal system came about because man had ten digits, or fingers and thumbs, and started by counting out pebbles and putting them in piles of ten. The word "calculus" is the latin word for pebble.

Bernie

Editor's note

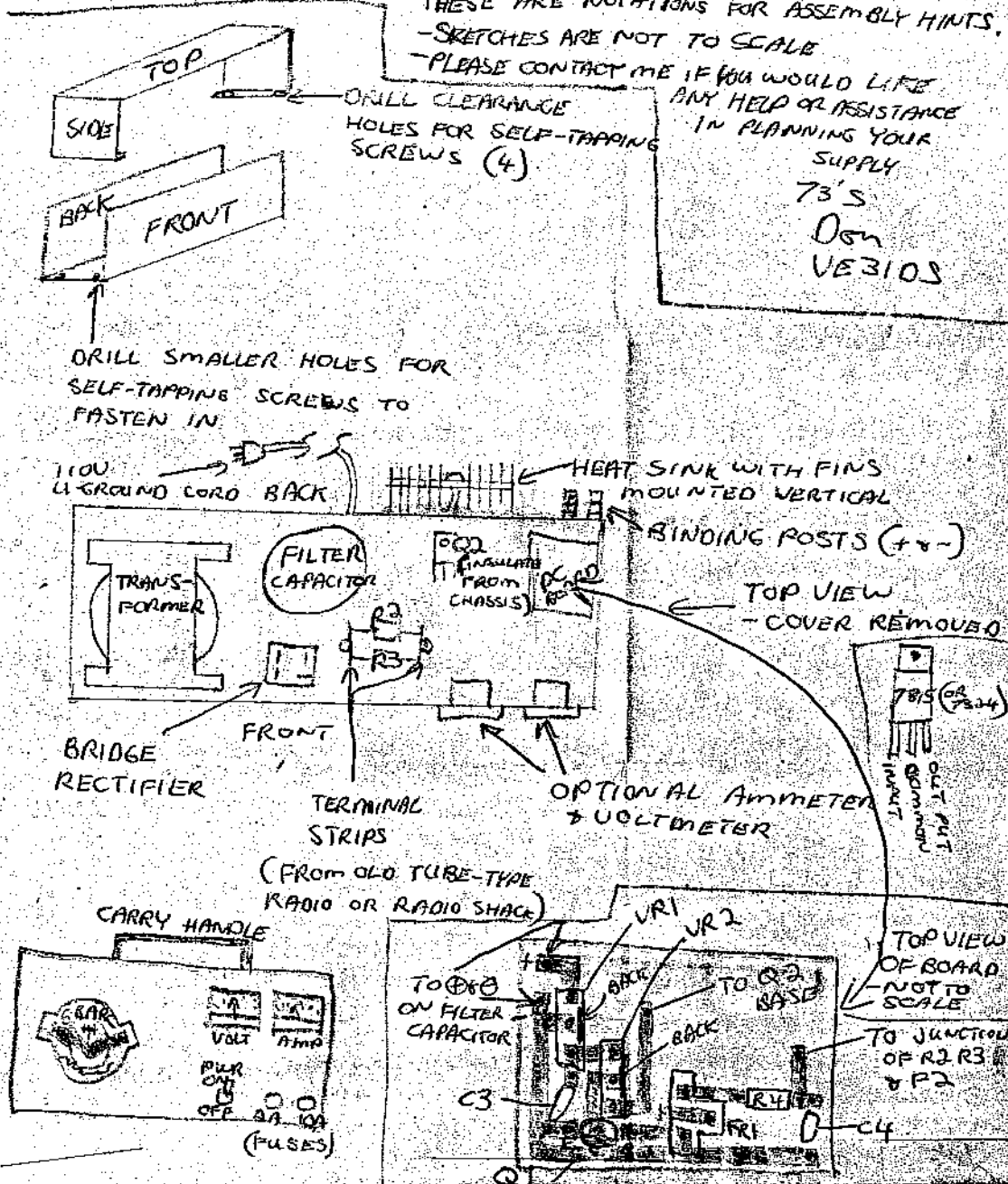
VE3ATI.

This article has been taken in its entirety from "SPARKS" a publication of the North Shore Amateur Radio Club, Oshawa, Ont., Feb. 1981 issue.

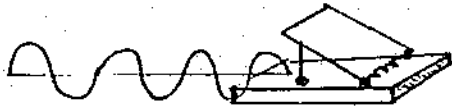
# SUGGESTED ASSEMBLY FOR THE GBARC POWER SUPPLY PROJECT

THESE ARE NOTATIONS FOR ASSEMBLY HINTS.  
-SKETCHES ARE NOT TO SCALE  
-PLEASE CONTACT ME IF YOU WOULD LIKE ANY HELP OR ASSISTANCE IN PLANNING YOUR SUPPLY

73's  
Ogn  
VE310S



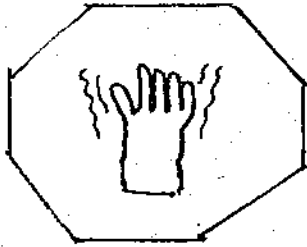
**DISASTER** - Shortly before midnight on March 4th the 1½ storey home of Jim McTaggart, VE3HIZ, of Southampton was totally destroyed by fire. His wife and three pre-school children escaped the flames but all possessions were lost. Those wishing to help the McTaggart family can do so through the Bank of Commerce or the Royal Bank, both in Southampton.



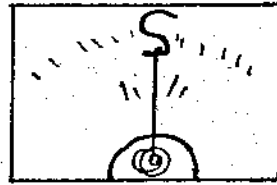
Wave trap



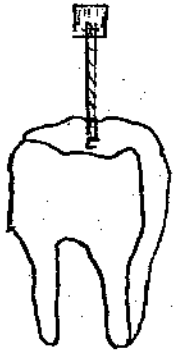
Tunnel diode.



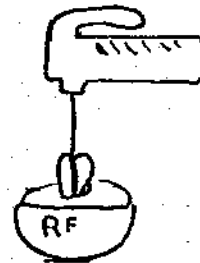
Sine wave.



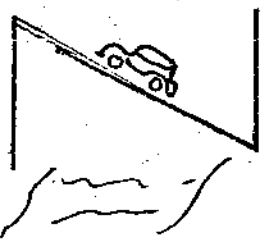
S meter



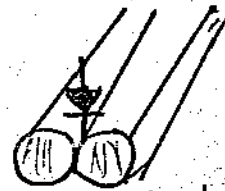
Tuned cavity.



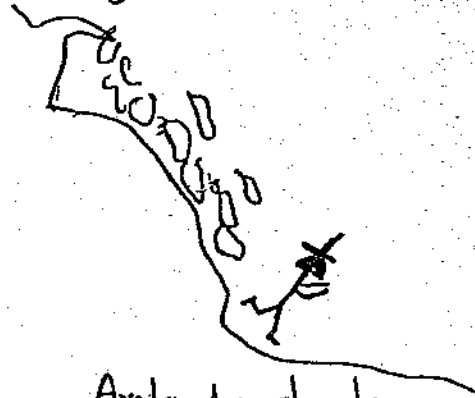
Mixer



Impedance bridge



Gunn diode.



Avalanche diode.



Transceiver.