

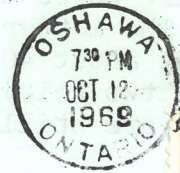
SPARKS

North Shore Radio Club

NEWS

VE3NSR and
VE3OSH - FM
BOX 171,
OSHAWA, Ontario, CANADA

Oct. 1969



GIVE
THE UNITED WAY
UNE SEULE FOIS
PLUSIEUR

Ralph Day,
169 Park Rd. S.,
Oshawa, Ont.

Don't be surprised if you hear what sounds like a field of crickets chirping when you monitor the FM channels because Ham Radio has been given a new mode of transmission. A while ago a number of facsimile machines were released for amateur use but not until recent weeks was there much activity. VE3ADO and VE3BXA started sending test transmissions to each other and enough enthusiasm was generated to interest some of the others and get them on the air. One problem that was encountered was that these machines were not designed to send to each other. They send a negative picture - that is, if the copy is black on white at the sending end, it came out white on black. This hurdle has been overcome along with a synchronizing circuit that puts the picture or message on the right place on the paper rather than having it split in two. Briefly this is how the system operates. At the sending end a strong light is focused on the copy to be sent which is wrapped around a drum which revolves about 3 revs per second. This light is reflected off the paper, goes through a lens and pinhole, through a revolving slotted disk known as a chopper which produces a signal with a frequency about 3 KHz. The more light reflected, the stronger the signal and vice versa. The drum feeds slowly to the left until it hits a switch which returns it to the right and it is ready for the next message. On the receiving end, a piece of specially treated paper with a graphite backing is placed on the empty drum. A small wire known as the stylus is brought to bear on the face of the paper and each time it receives amplified audio voltage between about 50 to 90 volts, the wire burns through the facing of the paper and a black mark appears. Since the drum on the receiving end and sending end do not start at the same time it is necessary to bring them in step. This is done with a synchronizing (sync) signal and sync and the circuit locks up. The result is a true copy of what has been sent appearing at the receiving end. The advantage of such a system is that small circuits and drawings can be sent in a space of about two minutes and those interested can discuss the merits or suggest changes that could be made. There are three machines in this area at the moment owned by VE3RP, FIV and ATI. The latter two are in working order and have been modified to the extent that about 40 wires were removed and six relays and a buzzer reduced to about two relays. At the time of writing the Pliers, Cutters and soldering iron are still active.

PRESIDENT'S REMARKS

The aim of the rules of our Procedure is not to keep us where we are, but to get us where we should go without losing our way. Rules are the expression of principles and help us get things done better. Our Club had by-laws at the beginning, but all except one copy have been lost. The present by-laws that you have been given at the last meeting or sent to you in the mail have been up-dated to give guidance to the Executive and members. They are only three pages long plus one page of Standing Rules, and do not go deep into procedure. As I have said before, these are basic guide lines for a club. At this point, I ask you, do you belong to any other club that does not have by-laws? Think about this, and then come out and vote on the by-laws at the next meeting.

It is my pleasure to be able to thank club members for jobs well done, and a big Thank You goes to Mike and Judy Skinner on having the Club's Corn and Weiner Roast this year. It is the first one we have had in several years and was attended by approximately 45 people.

The Club's display of Amateur Radio in the Oshawa Shopping Centre on September 24, 25, 26 and 27th was the first demonstration the club has been involved in for at least twelve years. I thank all members who helped plan it and also man the display, as well as those who donated equipment.

There will be a review of the event at the Oshawa Airport on October 9th at 8 P.M. All members who were involved in this demonstration please plan to attend.

I hope to see everyone in attendance at the next most important meeting and don't forget to bring your junk for the auction.

Ralph, VE3CRK

EDITOR'S THOUGHTS

Well! That was quite a display of ignorance last meeting, wasn't it. A real show of stupidity. Here we are with an executive that is busting it's ass to strenghten the club operations with something as basic and necessary as a Constitution and one of the idiotic visitors has the gall to rip up two copies of the proposed constitution. What nerve! A paid up member can only rip up one.

After that meeting so much disention was expressed between various people that talk about the formation of a new club has been heard with rules so stringent that the Queen of England herself couldn't get in. Your editor has met with the executive at one executive meeting and discussed running a club social function. After looking over the membership list to find, rather than let the usual half dozen do it, someone who would do the job for us, we couldn't find a solitary sole, because we know we couldn't depend on them to do it.

There was a rather informal gathering at the airport on Sunday, Sept. 22nd where everyone aired their beefs, and one thing is certain, many of the people who are the movers behind the club won't be there next year.

There will probably be a North Shore Amateur Radio Club next year but there will be more activity at Oshawa Home for the Aged. The Club will be attended only by those who don't operate, for such reasons as laziness or lack of interest and hasn't heard from his buddies for a month. Come, come gentlemen, this is a radio club for those interested in amateur radio, not a social club for those who want to reminisce about the good old days.

It was the belief of the editor that if the bulletin was sent to area hams who were not members it would spark some interest in them and bring them out to club meetings, not just so we could brag about the size of our club to others; but to increase the interest in amateur radio in our area. Wrong again, wasn't I, so after this edition, No pay, No read.

FOR SALE

1 heath HR 10 rcvr	\$ 80.
1 heath xmtr DX 60 A	60.
1 Hammarlund Super pro (sp 400)	40.
1 " HQ 110 with clock	--
1 Sten Pro quad 20 15 10 meters	20.
1 APX6 and SCR502 tx andrx (2 meter) as is	----

phone Bill McPherson, VE3CMM 839-1437
1066 Finch Ave.,
Pickering.

WANTED

1 SB 400 xmtr or equivalent

phone Pete Solly, VE3DFD 668-6013

Field Day is over and done with for another year and I think all who attended had a good time. There were a few problems, such as interaction between 80 CW and 75 Fone. Also 20 Meters and 2 Meters had a runaway generator, but these problems were overcome with customary dispatch, and along with perfect weather things moved smoothly. Now we wait --- for QST to show our official scoring and standing. Claude VE3WQ did an excellent job as Field Day Manager. So to him and those who worked with him a vote of thanks from the Club for a fine effort.

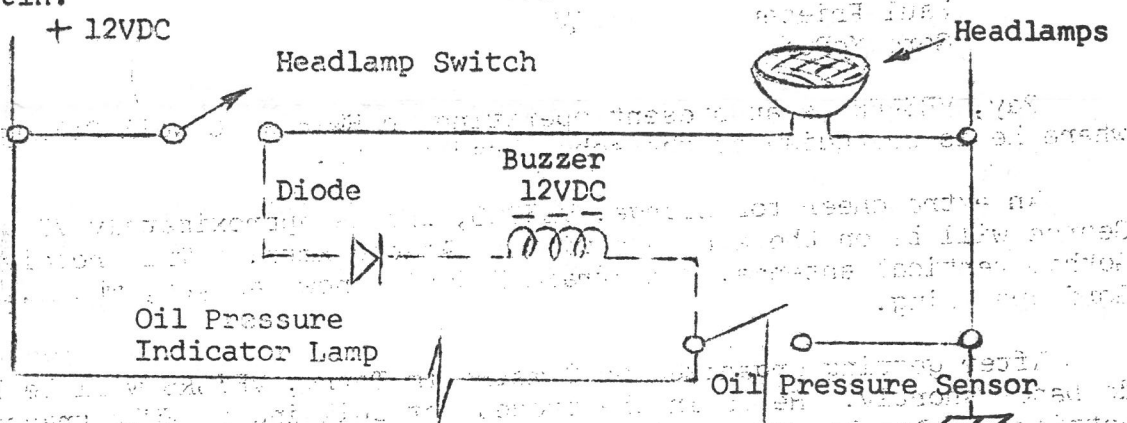
Speaking about Claude, check page 53 July QST and see how he rates in the early results of the ARRL DX Contest.

W1AW announces they will transmit code practice sessions at 1300 GMT (9 a.m. EDT) in addition to their regular evening transmissions so look for them on the usual frequencies.

We are pleased to note that the ARRL Phonetic Alphabet has been given the axe in favour of the International (I.C.A.O.) Phonetic Alphabet.

TECHNICAL TOPICS

Here's a handy gadget for you mobile! How many times have you been through a rain storm, foggy day or subway and accidentally left your headlights on? Well here is a simple method of setting off a buzzer alarm should this occur and it has an interesting bonus. The circuit was submitted by Jack VE3ABV taken from a KWARC Bulletin.



Only two parts and some wire are needed---and a little probing under the dash to attach them to the car's electrical system. Here's how it works: "When the engine has stopped or is not running, and the Headlamp Switch is closed, the lack of oil pressure allows the Sensor Switch to close. The Diode becomes forward biased and now conducts to energize the buzzer. By turning off the lights the 12-volt source is removed OR starting the car's engine gives oil pressure to interrupt the ground path for the buzzer coil to stop the alarm. The circuit provides an additional on oil pressure also because if it gets low whenever the lights go on so does the alarm."

Make sure the Diode is rated high enough to carry the buzzer current. Any old cheap door buzzer will do fine. (If and when you try this circuit, let us know how it works and what components you use...ED.)

Below the main text, there are several columns of faint, illegible text, possibly bleed-through from the reverse side of the page or a list of names and addresses.

TUNING AROUND

A letter to Bill Smith, K4AYo, editor of The World Above 50 m.h.z. from Mike Sherba, VE3DKW.

Dear Bill:

Though I'd drop you a line and mention the terrific opening we had on 432, July 15, 1969. It all started at 2150 edst when I heard W9WCD on the back corner of my beam. After turning the beam towards Ill. I worked the following - W9WCD, WA9NKT, WA9HUV, W9AAG, W0DRL Kans., K9CNN, W9UNN, K0DOK Mo., W9DCN, K9HDE. I came back on the band at 0600 edst and W9WCD was still coming in S9I and worked W9UNN again. W0DRL was S9 at times and K0DOK was readable on A.M. phone. My distance to W0DRL is approximately 940 miles.

On July 16th the band opened towards the east and worked K3EAV/I in Newport R.I.; this gave me state #12 on 432 mhz.

The equipment here is a coaxial tank 4CX250B at 100 watts output to a 32 element expanded extended collinear, 2N3478 preamp, tapetone converter and a 75A2A receiver.

Congratulations to the following on having obtained their ham licenses:

- Ray Plante - VE3DEN
- George Brittain - VE3DCQ
- Paul Friesen - VE3AQV
- Gord McDuff

Ray, VE3DEN is at present operating an HW16 at O'Neil Collegiate in Oshawa where he is Custodian of the school radio club.

An extra cheer for George, VE3DCQ, who is approximately 70 years old. George will be on the air soon with an Apaghe xmtr, a Trio receiver and a Gotham vertical antenna. I'm afraid I don't know, as yet, what gear Paul and Gord are using.

After getting organized on 2 metre fm Terry, VE3GRS will be back on the dc bands shortly. He is in the process of building an HW32 transceiver and getting his Apache on the air. To operate the HW32 he has to get his advanced ticket which leads us to the subject of advanced code and theory.

As far as we know now advanced code will be held at Peter's VE3DFD house at 7:30 P.M. I guess we could discuss theory then too.

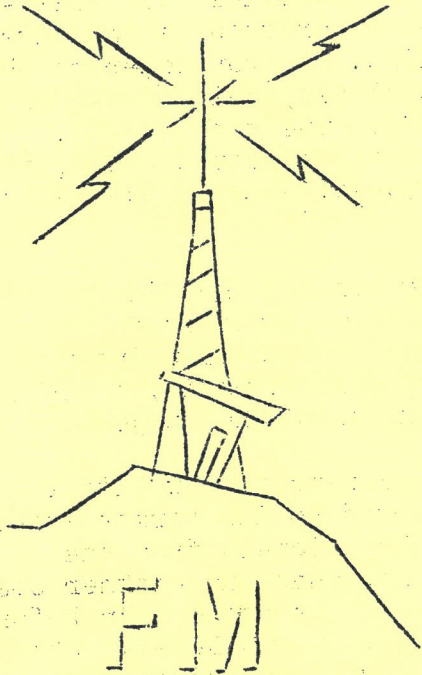
Good luck to Bud, VE3BIC, upon his entry into the real estate field.

Have any of you missed hearing the dulcet tones of Harry, VE3QC on 2 meters lately? Well, there is a good reason for it; he has been on holidays in B.C.

VE0 calls for Canadian armed force ships -

- | | | | | | |
|-------|------|-------------|--------|------|------------|
| VE0NA | HMCS | Restigouche | VE0NT | HMCS | Provider |
| VE0NE | HMCS | Bonaventure | VE0NU | HMCS | Terra Nova |
| VE0NK | HMCS | St. Laurent | VE0NEA | HMCS | Thunder |
| VE0NF | HMCS | Margaree | VE0NEB | HMCS | Skeena |
| VE0NL | HMCS | Nipigon | VE0NEC | HMCS | Saguenay |

VE3OSH - Input on Channel "C" - 146.400 MHZ
Output on Channel "N" - 147.120 MHZ



Field Day in 1969 found VE3OSH and FM virtually non-existent BUT other groups found it useful to operate in the FM portion of the band. Therefore we must consider using an FM station in future FD's. After all the basic premise behind this day is to exercise the local capability for emergency communications, a role which FM has been performing successfully and continuously for many years, in the Oshawa area.

OPEN HOUSE at VE3OSH, Raglan, Tuesday, July 8th was a huge success. Sorry if we did not get notice to you on time, but those that were able to come (somewhere between 30 and 40) enjoyed themselves. It was sort of a "rag chew" and bar evening with the latter activity receiving a good deal of attention. The technical group responsible for installing and maintaining VE3OSH on the air is justifiably proud of its efforts, so if you did not have an opportunity to make it this time watch for future Raglan events! The only incident to mar the event was the scramble to leave the "hill" just at dusk at which time our friend the mosquito invaded the area and made further activity somewhat less enjoyable.

CRYSTAL ORDERING - You may order crystals for your FM gear through VE3BIC, Bud Clark, 1543 Lakefield Street, Oshawa, Ontario either through the mail or by "on-the-air" contact. We also supply other than FM rock if you so desire but in either case give as much of the following information as possible: (a) Crystal Frequency (b) Operating Frequency or Channel (c) Model number of the Set (d) Manufacturer's Name (e) Description or Type of Oven if used (f) Pin size (g) Envelope description (h) Any modifications that may have been made to the Oscillator portion for the I.F. stages (enclose diagrams). If the equipment is not considered standard or is of unusual make please supply the manufacturer's part numbers and specifications with your initial order. The foregoing is NOT presented to make crystal ordering a complicated process, merely to expedite. Requests become bogged down at the plant when they cannot be properly identified. You cannot overdo it!!!

Several new calls have appeared in the Channel since our last Bulletin, therefore let us welcome Glenn VE3AEQ, Mike VE3DKW, Chuck VE3KQ. They cannot of course be considered officially initiated until they have consumed a 3-quart jug at our "South End" headquarters (without stopping).

Activity on Channel "N" has slowed down during the holiday period, but we are glad to see the noon time activity is becoming popular (must be the nice weather). Don't be a LISTENER!! Too often mobiles and base stations will monitor the channel without ever letting us know they are listening---waiting for something to happen. BE A HAPPENING!

We're still getting a lot of activity in the channel from Ohio mobiles through K8VFL Repeater. We hope to be in touch with them soon, that is directly on Channel "C".

Annual Folk Festival Parade, July 1st - We were a little disappointed with the lack of response to the request for volunteer mobiles to handle the parade (a total of one). It was therefore necessary to turn over the responsibility to the local EMO. For this reason the August 2nd Parade in Whitby was also covered by EMO mobiles. The difference between EMO Radio and Amateur FM is that the former group is not averse to getting off its collective PRAT and doing something. As for coverage the Repeater offers a much more efficient method and completely solid coverage. This was the ONLY reason for considering Amateur FM in the first place. It is unlikely they will ask again! If you would like to see amateur radio die out in this area -- please continue sitting on your prat! - you'll get your wish.

C L I N I C In response to requests, the Thursday evening meeting at the Oshawa Airport will continue in September. This is an opportunity to talk about FM with others whose main interest is FM. Actual clinical activity has become a rarity at these meetings but they still are a good source of information on the subject.

V E 3 R P T The latter part of July marked the beginning of new life for the Toronto repeater which has been moved to its former location at Dagmar. Latest reports indicate that signals from the station approach their former coverage and that new antennas and another small move of the equipment will affect even better signals it is hoped than before. For those of you who had the foresight to include Transmit and Receive Xtals with the original purchase the luxury of two stations will be appreciated immediately and FM should prove more interesting from now on. RPT is located approximately 8 miles south of Uxbridge on a promontory which measures 1325 feet above mean sea level. The station is presently not quite at the top of the hill but future moves are aimed at getting as close to the peak as possible. This particular location commands a spectacular view of the countryside in every direction and is considered one of the most ideal sites for a wide coverage on VHF. Congratulations go to Paul, VE3BDW and Van, VE3ARV for their efforts in getting the new site (or the old site back) and to other members of the Toronto FM Association who have contributed towards this end.