

NORTH SHORE AMATEUR RADIO CLUB INC.

P.O. BOX #171, OSHAWA, ONT., L1H 7L1

DIRECTORS

VE3KQE	President	Reno Torresan	668-8760
VE3NIP	Secretary	Frank Lane	434-6657
VE3CEU	Treasurer	Colin Bell	723-7842
VE3OHN	program co-ordinator	Roy Norton	623-7125
VE3KSP	Vice President / Past Pres.	Neil McAlister	668-4161

WHO TO CALL ...

VE3GDF	Registrar	Keith Wyard-Scott	723-5758
VE3IHS	amateur training course	Joe White	623-4069
VE3CRK	special events	Ralph Day	576-8738
VE3ADD	get well cards	Ted Brant	668-3561
VE3AAF	2-meter net	Roy Miller	852-5447
VE3LHZ	membership list & mailing labels	Paul Dale	579-2877
VE3QG	financial auditor	Harry Westwood	683-5104

WANTED SPARKS Editor

CLUB STATION VE3NSR

CLUB REPEATER VE3OSH 147.72 MHz in, 147.12 MHz out.

CLUB NET

The 2-meter net, hosted by Roy, VE3AAF or a stand-in, takes place every Thursday at 19:30 local time, on the Club's repeater, VE3OSH. Great CW code practice is provided by Bernie, VE3ATI, starting at 20:30.

*** * * NOVEMBER ANNIVERSARY BANQUET * * ***

Instead of the usual November meeting, we are having a **40th anniversary banquet** to celebrate NSARC's birthday! We will meet at 19:00 (7 PM) sharp on Tuesday, November 11 (Remembrance Day) at the Tung Hing Restaurant in the new plaza on the west side of Thickson Road, south of Dundas St., in Whitby. (Just opposite the Woolco store, and south of the Toys'R'Us store.) Talk in on the repeater, VE3OSH.

Highlighting this banquet, "Ham of the Year" trophy will be presented.

SWAP SHOP

FOR SALE: Kenwood TS520S HF transceiver in good working order. Built-in power supply. Price negotiable. Phone Bob, VE3NLW, 728-6452.

FOR SALE: Phone Neil, VE3KSP, 668-4161 :

1. Avanti "through-the-glass" 2-meter mobile antenna. \$48.
2. Brand new (never used) low-profile dual-band "Un-Tenna" model CR2/4A. Magnetic mount, mobile antenna for VHF / UHF dual-banders. Includes plastic "radome" cover. (Originally cost \$116)
3. New (uncut, unused) 5/8 whip for Larsen 2-meter mobile antenna. \$5
4. GIVE AWAY: Recent back issues of "PC World" computer magazine.

"SPARKS" NEEDS AN EDITOR

First the bad news: Faced with moving to a new home QTH and a new job that requires a regular schedule of study, the current Editor of SPARKS must resign immediately, with or without a replacement.

Now the good news: Ray, VE3DUB has generously offered to serve as one Co-Editor if a second person will step forward to help him. If you can handle half of this job, and if you've been waiting for an opportunity to get off the sidelines and become actively involved in this club, please contact Ray at 723-2467. This unavoidable change will let someone else inject a different personal style into our club's monthly communication, thereby keeping it fresh and interesting.

MEETING? WHAT MEETING? -- VE3KSP

MOST HUMBLE apologies to everyone who expected to see a travelogue about Africa at the October club meeting. The lethal combination of a long, holiday weekend (that made it feel like a Monday) and a supper-hour medical meeting that carried on into the evening made me forget the club altogether! Wouldn't ya' know it? First meeting I've missed in more than two years, and it would be the one at which I was supposed to speak!

Fortunately, President Reno says that the club made good use of the time to discuss something considerably more important: Our plans for the bigger and better **Durham Region Amateur Radio Flea Market**, that will be held this year -- appropriately enough -- in the Pickering Flea Market Center. With parking for over 5,000 cars, the new QTH will be a considerable improvement over the automotive chaos at the old location.

The hour-and-a-quarter presentation that I had planned would have been much too long, as it turned out. Perhaps my stupidity worked out for the best after all, since the travelogue can now be scheduled for a more convenient time when there is less critical business to consider.

I have informed the rest of the executive that I shall be at the club's service to put on this show at another meeting whenever they want it. But somebody had better phone me the day before, just to make sure that this forgetful speaker shows up!

ELECTIONS IN JANUARY

According to the terms of the NSARC Inc.'s by-laws, three new Directors of the North Shore Amateur Radio Club Inc. are to be elected at the January 1987 meeting. They will replace Roy 'DHN, Colin 'CEU, and Neil 'KSP, all of whom will retire, having served out their two-year terms of office.

If you wish to stand for election, and better still, if you can persuade a friend to run with you, please submit these nominations to one of the current Directors.

GOING "UP" IN THE WORLD?

If you haven't tuned into UHF yet, you don't know what you're missing -- or what you will be missing as this band develops at an ever-increasing rate. Gone are the days when UHF was "there" but never used. Today this band is definitely the place where all the action is.

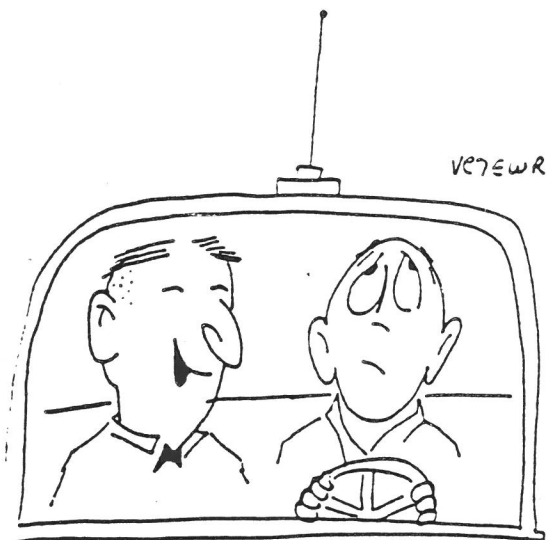
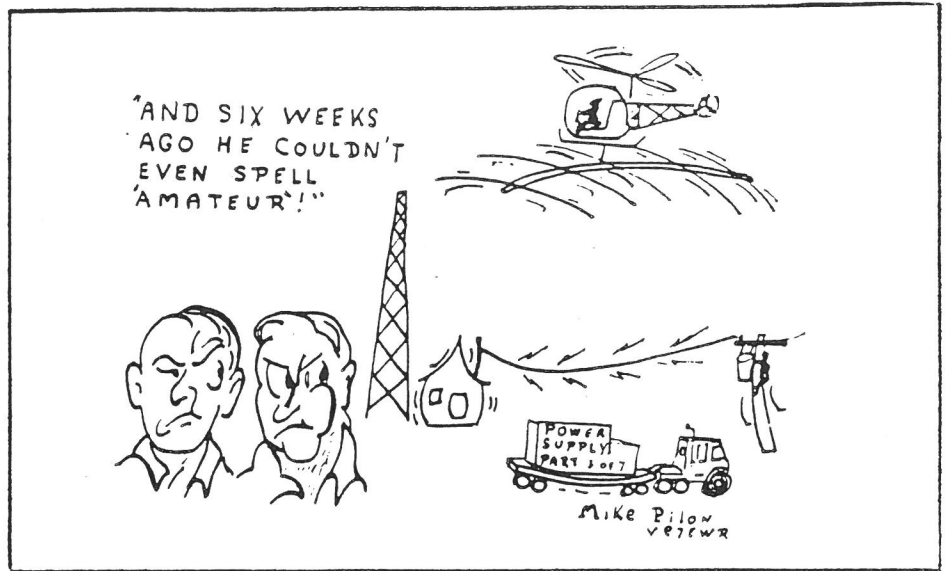
Locally, Rick VE3IFI, says that he intends to install a phone patch on the UHF repeater, VE3NAA, (output 443.000 MHz) sometime within the next year. Use of the autopatch will be restricted to contributing members of that repeater organization. Rick will be soliciting contributions to finance this operation when the time comes.

Interestingly, the sponsor says that 'NAA, which has now been operational for more than two years, received so little use during its first year of life that he seriously had planned to take it down. What a difference a few months make! Now, a growing number of UHF converts in Durham Region and beyond monitor and use this repeater on a more-or-less regular basis.

UHF has important advantages over VHF: cleaner signals with much less intermod; wider coverage; phased, gain antennas for mobile set-ups; small, yet fully-resonant quarter wave antennas for handhelds. By contrast, the lossy 2-meter rubber duck might better be thought of as a "dummy load" rather than an antenna!

If there are going to be new repeaters in the Toronto region, they will be on UHF, since the VHF spectrum is already fully saturated. And of course, it is the new repeaters that have the newest features. They seem to be springing up like mushrooms: I found VE3REC/R in Weston (output 443.350) by accident. It's been on the air for only four weeks.

The business about new features also applies to rigs for personal use. "Dual banders" give you continuing access to all your customary haunts on 2 meters, plus an open door into the expanding universe of UHF, where all the technical innovation is happening these days. A transceiver like the Yaesu FT2700RH offers full duplex, with *simultaneous* transmit and receive using the two different bands. You may occasionally overhear Russ 'ATT or 'KSP engaged in what sounds like a very strange one-sided conversation with themselves: The other half of their discussion is going on on the other band! No more "over" or "back to you", since a QSO is as simple as an ordinary telephone conversation.



HEY! I SEE YOU HAVE A CB IN THE CAR.

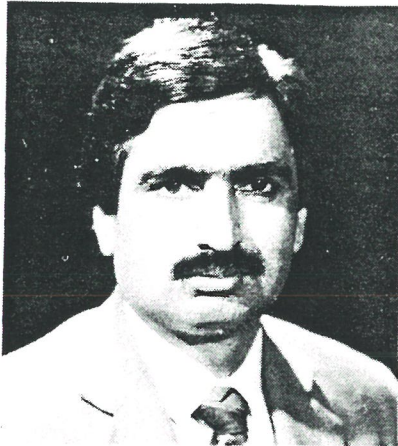


LET THE CHIPS FALL WHERE THEY MAY ...

A short while ago, the Russians were boasting that Soviet ingenuity had invented the "world's largest microchip" -- until someone pointed out to them that microchips are supposed to be small !

AP2KD

Had there been a prize for the Amateur who had come the longest



distance to attend the recent flea market in Pickering, AP2KD Parvez would undoubtedly have been the winner. Parvez, whose homeland boasts less than 80 active Amateurs, was completely at home at Pickering High School in a friendly crowd many times that number. AP2KD, one of a small group of management trainees of the Pakistan Government Railways attending training classes under the auspices of CNR and CNCP, availed himself of the opportunity to attend a Canadian flea market with VE3CRL. He also tried out our 2-metre repeaters (there are no 2 metre repeaters in AP-land) and contacted Jean VE3DGG via his first phone patch. Note: Parvez took sample copies of *TCA* home with him and is interested in associate membership in CARF. —VE3CRL.

The Canadian Amateur Radio Magazine 09/86

We read in *The Canadian Amateur* that our Durham Region Amateur Radio Flea Market has now become world famous.

If hams came from as far away as Pakistan to see us last year, even before our move to the bigger and better QTH at the Flea Market Center in Pickering, what more can we look for next year?

Today the world! Tomorrow the universe?

AMATEUR RADIO STATISTICS:—

Communicating and recording of incidents of susceptibility to the Amateur Service are sparse unless radio communication devices are involved i.e. radio or television reception. Some cases of which I have personal knowledge or which have been brought to my attention by correspondents follow below. It is becoming more and more apparent that no satisfactory recording process is made of problems related to audio rectification or lack of immunity in control systems or domestic appliances. This is not surprising because TO WHOM DOES THE OWNER COMPLAIN? DOC has no mandate to become involved in problems which do not involve radio communicating devices; yet who is more qualified and better prepared and knowledgeable of problems relating to management of the electromagnetic spectrum?

A very few representative examples of immunity problems involving Amateurs are as follows:

Ottawa Ont.— Electronic furnace controller, microprocessor controlled, malfunctioned from operation of nearby transmitter. Discussion with designer revealed problem was common and due to single conductor sense line and use of a floating ground. Problem resolved in second generation by changing to a more standard microprocessor configuration.

Intravenous pump at local hospital returned to a 'reset' mode when walkie-talkie of VHF variety used in same room as pump.

VCR and mantle radio generate objectionable noises when NOT powered. Local transmitter is close to exposed TV cable drop.

Heart monitors in hospital displayed incorrect information due to hospital wireless paging system.

Nepean, Ont.— Garage door opener operated when nearby transmitter keyed.

Recent increase in power by local transmitter caused operation of railway signals and rash of complaints of unusable telephones in immediate area. (non-Amateur)

Installed domestic paging system useless due to broadcast transmitter located four miles away. All 8 paging stations affected.

Consumer receives objectionable noises on quality stereo system, electronic organ, television and clock radio from VHF transmitter. Television found to be defective (just serviced). Clock radio speaker activated with set turned off. Audio volume louder as frequency of transmitter quadrupled. (i.e. 144-432 MHz).

Contempra type phone unusable when local transmitter used. Music from local transmitter and time station (NRC transmitter) heard in phone continuously.

Local AM broadcast stations heard on unused TV channel. VCR displays video interference in playback mode. Local transmitter is cause.

Programmable outdoor light controller malfunctions when local transmitter operates. Three separate units failed. Neighbours have no problem.

Amateur Radio operators and clubs are earnestly requested to briefly summarize any instances of susceptibility or lack of immunity to domestic or industrial appliances and control equipment. It appears the case must be made that these problems are not a figment of one's imagination. If your club or association is aware of situations where radiosensitive devices have malfunctioned due to a compatibility problem, make us aware.

It is only necessary to provide a call sign and brief description of effect and device affected. Send your input to VE3BBM, 30 St. Remy Dr., Nepean, Ont. K2J 1A3. SPEAK UP! There is no other way incidents of this nature will be visible. You don't need to be licensed to become a statistic. Cases will be published and circulated. We need statistics to counter the excuses EMC is not a real problem.

Although statistics such as these can easily be buried, Amateurs are going to have to ensure that their local politicians are aware of some of these problems. The case for potential life threatening problems in the 'wired home' of the future is a distinct reality unless lack of immunity problems are addressed responsibly. We should seek realistic and achievable immunity levels and not 'high' levels as has been suggested.

Now let's hear a cheer for implementation of sound engineering practice.