

NORTH SHORE AMATEUR RADIO CLUB

N.S.A.R.C. EXECUTIVE FOR 1994

**APRIL
"SPARKS"**

President	Robert A. O'Toole	VE3VKM 905-576-4264
Vice President	Casey Coley	VE3NGT 905-623-0264
Treasurer	Laird Solomon	VE3LKS 905-434-7339
Secretary	George Day	VE3UEH 905-432-1368
Program Dir.	Peter Johns	VE3WWZ 905-723-9049

CLUB COORDINATORS

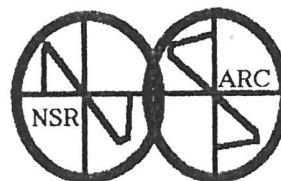
A.R.E.S. Coordinator	Margaret Jeffery	VE3BNN	905-725-1238
Special Events Coordinator	Ralph Day	VE3CRK	905-576-8738
Bulletin Editor	Victor Doty	VE3LNX	905-983-5831
Bulletin Publisher	Glen Goslin	VE3LIZ	905-725-1545
Club Historian	Mike Sherba	VE3DKW	905-723-7674
2 Meter Net Control	Roy Miller	VE3AAF	905-852-5447
Registrar	Keith Wyard-Scott	VE3GDF	905-723-5758
Get Well Cards	Ann Jones	VE3KWI	705-324-0638
Nonquon Canoe Races	Glen Goslin	VE3LIZ	905-725-1545
Field Day	Tom Rogers	VE3BTR	905-640-5549
Instruction Coordinator	John Nicholls	VE3SII	905-683-2495
Auditor	Rick Gibson	VE3ASH	905-434-2886
Lists and Labels	Paul Dale	VE3LHZ	905-434-6741
Jamboree On The Air	Tom Rogers	VE3BTR	905-640-5549
Club Inventory	Victor Doty	VE3LNX	905-983-5831
Ride For The Handicapped	Ralph Day	VE3CRK	905-576-8738

Meetings are normally on the 2nd Monday of the month at 19:30 SHARP at the Arts & Resources Center in Oshawa on Queen Street.

The Thu. night net convenes at 19:30 hr's, & CW practice at 20:30 to 21:30 hr's.

There will be no speaker for this month as there is too much business to be handled.

North Shore Amateur
Radio Club Inc.
P.O. Box 171, Oshawa
Ontario L1H 7L1



Trivia Answer

To make a zener diode a variable zener diode in an over voltage protection circuit requires a variable resistor in the circuit to raise the trip point of the diode to what you want the circuit to trip out at. [I will in a future issue include this circuit for anyone who wishes to add this to their existing supply if it doesn't already have one.] (Editor)

Just Ask The Janitor

In around 1950, an aircraft manufacturer was ready to test a new design of fighter. After many months of design, testing and assembly, they were ready for the maiden flight. This new aircraft could do mach 3, and easily pull 10g out of a dive (at least on paper!) Well after the plane took-off, it did it's circuit around the test facility, and sure enough, exceeded mach 3. The final test of the aircraft's ability was to reach an altitude of 70,000 feet and go into a dive, then pull out to a maximum of 10 g's. Everything went well until the plane started to pull out of the dive and reached 6 g's, when, suddenly, the wings folded and the plane crashed into the earth! (the pilot ejected to safety). After retrieving the aircraft and analyzing the remains, they couldn't find the problem. So they built another and it also ended in Murphy's capable hands. It looked like the plane was to meet a quick death. A couple days later, the head engineer of the project was in the john talking to the janitor of the building. He told the janitor about the problems they were having with the aircraft, and the janitor suggested to drill a series of holes along both wings where they meet the fuselage. Having nothing to lose, the engineer agreed and got a plane ready to fly. The next day, they flew, and to the engineers disbelief, the plane stuck together and managed to pull 14 g's before the pilot chickened out!!!! The next time the engineer saw the janitor, he asked him how he knew of such mechanical engineering, after the best people in the country couldn't solve the dilemma. The janitor assured him that he

knows nothing about that type of engineering. The janitor told the engineer" after being a janitor for 28 years, I have never seen toilet paper tear along the perforations!". And you thought all those holes in the structure of an airplane were there to save weight????

VE3TJD 73, Tedd / Baden, Ont.

DRAREO & SOCIAL SERVICE EXERCISE

Friday, February 11TH, 1994

The exercise took place as planned. We had three stations and 9 operators plus two other operators who advised they would stand by and be available if we needed them. First, Randy VE3JPU and I would like to thank the following people for setting aside their day for this exercise: Bob VE3ADJ, Stan VE3SCC, Dave VE3UGV, Howard VE3TY, Nick VE3VDH, Sarah VE3ZQS and Ron VE4HWD (a visitor from Winnipeg). The two on standby were Jim VE3SVM and Gord VE3UIB. Also thanks to Eric HMG for the filter and taking the timer off the repeater, and to Bernie VE3ATI for coming to our aid.

I received a call at 7.38 am from the Social Services advising that an emergency exercise was to take place under the Provincial Act ... and three stations would be needed and were to be operational by 9 am. I phoned Randy to advise him that the exercise was a 'go' and we then monitored VE3OSH to assist the operators to their stations as needed. The repeater was put on emergency exercise standby at 9 am.

After a 'jerky' start the three stations handled, altogether, 90 messages in the two hours of the operation. As telephones were not to be used by any of the agencies we were the only means of communication for them. It was a good exercise in most respects as it pointed out the need for written communications to be written in a manner that could be understood the first time. It also showed that written communications is much slower than the fax and telephone! However we also realised that

we would need in future exercises, where more than three stations are set up, a net controller and several simplex frequencies available where operators could be sent.

The three stations were: 4th floor **Bond Street (HQ)**; **John Pereyema Secondary School** (evacuation centre); and the **Red Cross Central Registry on Bloor Street (R & I)**. Each station and each area in the school had a **Social Service** observer who at the debriefing gave a critique of what they say and heard. A lot of comments were made to the effect that those initiating messages could not get their answers fast enough. We pointed out the many hands a message had to go through and the priority sequence which they had not realised. However, this exercise on **Friday** was good-problems yes, but as a learning experience could not have been better.

Thanks to all of you. **Margaret / VE3BNN**

Flood damaged car alert

The **National Automobile Dealer Association** has put out a warning about flood damaged cars coming in from the mid-west. These cars appear to be in good shape but problems could occur down the road. **NADA** recommends the following: **(1)** Thoroughly check the engine and interior for grit. **(2)** Look for dried mud under the dash. **(3)** Mold or musty odours may be found on upholstery, in the trunk and on the carpet. **(4)** Check behind the wiring harness, and the crevices on the starter motor, power steering pump, alternator and relays, also check out the door locks, around windows, heating ducts, etc. (VE3BNN)

Stinkiest Smell

The most obnoxious smell according to **The Guinness Book Of World Records** is **Ethyl Mercaptan**, it smells like rotting cabbage, garlic, onions, burnt toast, and sewer gas. It ranks as one of the worlds worst stenches. It is used in plastics and insecticides. (Editor)

RAC News Items

I included several items from the **RAC** news bulletin that is put out on packet every couple of weeks. I hope you find some of the items interesting.

#01. MORSE WITH FLAGS

Here's how **Arthur ZL1HV** described sending morse by flags in the September issue of **Break-In**, official journal of the **New Zealand Association of Radio Transmitters**.

A dot was from top dead centre (with hands in front of the forehead) to 30 degrees left, back through top dead centre to 30 degrees right and return to top dead centre.

For a dash, the flag excursion was top dead centre to 90 degrees left and back to top dead centre.

Speeds were eight words per minute.

#02. INTERNET PASSWORD COMPROMISE

Internet, the global computer network which services more than 10 million people worldwide, announced recently that the security system had been compromised. The network was forced to advise its users to change their passwords.

According to a **UPI** news item, "hackers" are suspected of having developed software that could copy down the password of users as they log on.

#03. TOP SECRET DEVICE SOLD AT SALVAGE AUCTION

This item was reported by **Associated Press** and appeared in the **London Ontario Amateur Radio Club** newsletter.

COOLEEMEE, N.C. **Roger Spillman** paid \$75 for what he thought was a radio amplifier at a salvage auction. The pale green amplifier, which he never got to work, turned out to be a \$363,735 piece of military hardware. It is part of a \$32 billion **Milstar** system to be used in missile silos, nuclear submarines and bombers.

the amplifier had gone astray during shipping. When Spillman turned to a local ham friend for help, the manufacturer was contacted for an instruction manual. This led to a visit by the U.S. Air Force with a court order to reclaim the device.

04. KUWAIT NATIONAL AND LIBERATION DAY AWARD

In February 25 and 26 every year, the State of Kuwait celebrates its National and Liberation Day. To mark this auspicious event, Kuwait Amateur Radio Society is delighted to announce an international award.

The contest is open to both licensed radio amateurs and short wave listeners according to the following rules:

- (a) contacts may be conducted on any amateur band, any mode;
- (b) the contest will start at 00:00 GMT February 25 every year and end at 24:00 GMT at the end of February;
- (c) there will be two callsigns in use, 9K2RA/NLD and 9K2../NLD. (9K2RA is the club callsign);
- (d) to qualify for the award, the participant is required to secure at least 3 points by making
 - (1) two contacts with KARS station (9K2RA/NLD) and one contact with any other Kuwait amateur station, the call letters of which are added to (9K2../NLD, for instance 9K2DR/NLD),
 - (2) or, three contacts with three different Kuwait amateur stations;
- (e) the participant must submit a certified copy of their logbook along with 5 IRCs or \$3 US;
- (f) there is no deadline for submitting applications, which should be addressed to - The Award Manager, Kuwait Amateur Radio Society, P.O. Box 5240 Safat, 13053, Kuwait. Telephone 965 5333762. Fax 965 5311188.

05. BRITISH SCANNERS BUSTED

It is not illegal to listen to police radio transmissions in Great Britain; however, it is illegal to act on any information heard when monitoring police frequencies. In England,

scanner operators are considered amateur radio operators. [UNFORTUNATELY Editor]

A recent sting operation which resulted in several people being charged involved phony broadcasts made by the police. In one broadcast, aliens were said to be landing nearby. In another broadcast, money was said to have been discovered in the woods and large sums were blowing around. When eavesdroppers arrived at the sites, they were charged. South Yorkshire police ordered "Operation Marconi" when they suspected that criminals were benefiting from information gleaned from the airwaves. This story originated over the Reuters newswire and was carried in W5YI Report.

06. SPECTACULAR GROWTH IN COMMUNICATIONS INDUSTRY

When AT&T sold the first cellular phone, they said there would be 900,000 of them by the year 2000. By 1993, there were already 13 million in use and the predicted number for the year 2000 is now 60 million. Over half of the U.S. workforce is now in information-based jobs. The telecommunications and information sector of the U.S. economy accounts for more than 12% of the GDP, and it is growing faster than any other sector of the economy. In 1993, the U.S. industry exported over \$48 billion of telecommunications equipment.

07. RFI & YOUR CAR POTENTIALLY FATAL

Almost all modern motor vehicles now contain high use of electronic components, even basic models.

Mitsubishi advises that for an output of up to 10 W, the following special installation requirements are necessary as a minimum:

Never run the antenna lead parallel to any of the vehicle's wiring harnesses; leads should cross at 90 degrees.

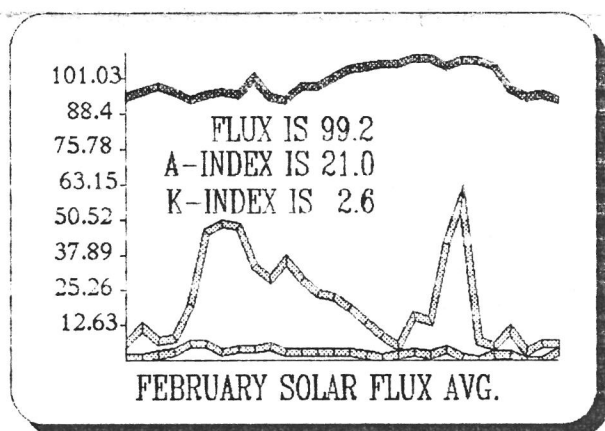
Antenna lead must have good quality shielded cable and be properly grounded.

The radio installation should be stand-alone with its own harness. Do not integrate radio wiring with vehicle wiring.

Install radio unit as far away from electronic control units as possible. The antenna, radio itself and cable should be firmly grounded to the vehicle body.

Mitsubishi does not recommend that a radio with a higher output than 10 W be fitted to Mitsubishi vehicles. If they are, then the radio and cable should be firmly grounded to the vehicle body.

This advice followed a fatal RFI problem with a 1992 Toyota Camry and was contained in a report in the New Zealand Association of Radio Transmitters bulletin.



Well for all you DX'ers out there in radio land, if you look this month's chart over carefully you will see why you didn't hear very many signals on any of the bands, there were a few good days but they were few and far between. Oh well things will get better (we all hope anyway) as the cycle wears on, in a couple more years you can look forward to some better DXing on 10, 12, 15, 17, & 20 meters. The next peak should be in 2002, but you can expect a lot of good propagation several years before that. I remember the conditions on 50 mhz when I first got on the band at the peak in 1979, 20 meter pileups were nothing to the pile ups on 6 meters in the fall of 1979 and 1980. You could work KL7's and VE7's with 10 watts just like they were just down the street. I actually got tired of working the Alaska stations by December of 1979. Anyway enough of my rambling on, just keep an ear on the bands because even though we are at the bottom of

the sunspot cycle there are still good openings on the higher bands, they are just harder to catch and they don't last as long. (Editor)

FLEAMARKET HELP

Well N.S.A.R.C. club members the title about says the whole thing. I was not at the last meeting (due to my work schedule) but I understand the response to a request for help at the fleamarket on Friday night setup and Saturday afternoon take down was not very good. Last couple of years when I was looking after security there was a very good response when help was asked for so I am hoping this will be the case again this year. Remember Friday night at 7 PM at the Metro East Trade Centre. We need a good turn out to help set the tables up so show up and support the club as the fleamarket is VERY important to keeping the club operational and at the level of life style that you have been accustomed to the last few years. VERY few clubs (if any) have a social program that the N.S.A.R.C. has had over the last 10 years, The Sermon On The Mount has a reputation that has spread far and wide and is attended by many members of other clubs as well as ours. The Field Day at N.S.A.R.C. is also a very well attenuated event and that has attracted a lot of publicity and visitors. The Corn roast is probably the most popular event of the year and not to mention the Xmas social evening. The big thing that I think nearly everyone forgets is that these events are FREE to all who come to them. I don't know how long this is going to happen but I can assure you if the club doesn't get some support in these other events then the social events will not be free if they are able to happen at all, if that is the case then YOU will be the loser, so come out and support the N.S.A.R.C.

(Editor)

MARCH MINUTES

The meeting was opened at 19.36 by Robert, VE3VKM. He introduced Jan Askew and Nora Bailey of the Oshawa Sea Cadets. They addressed the meeting, explaining their need for

an instructor to help set up their equipment and teach its basic operation, probably along with C.W. In exchange for this service, the Sea Cadets would make available facilities for club meetings and if required the Ham classes, at no charge. However, the regular meeting night may need to be changed to meet a common schedule, possibly the 1st., or 3rd. Tuesday of each month. A motion to pursue this possibility was made by Bob, VE3ADJ and seconded by Margaret, VE3BNN. It was carried easily. The guests for the evening were George Balint, VE3MRN and Antonio Getigan, VE3BUL, who showed a video presentation on their DXpedition to St. Pauls Island (off Cape Breton Island) in September 1993. Using call-sign CY9R, they made 15000 contacts in their seven day stay. After coffee, regular business was resumed and Robert welcomed the new members and visitors.

FINANCE Laird, VE3LKS, in presenting his financial report, pointed out a typographical error in the March bulletin, last months balance should have read \$6169 instead of \$9169 (UEH takes the blame). The balance at present is \$6504.10 with \$72 dedicated to EMO and \$1000 dedicated to the flea market. Laird reported that the audit had been completed by Rick, VE3ASH, who found only one error - a 30 cent surplus in the year-end balance. He then went on to itemise the years expenses and pointed out that the field day expenses were artificially high due to the fact that inventory obtained by the club at that time had been grouped with field day for convenience. It was agreed that the year-end financial statement would be made available to any member who wanted to see it, rather than have it published in the bulletin. Glen, VE3LIZ, pointed out that other clubs - Kincardine for one - give a financial statement in their bulletins. Margaret, VE3BNN, reminded the members that it had already been agreed that due to the exposure of the bulletin to non members, that only a limited financial report would be published. It was

generally agreed to keep to the present arrangement.

Ries, VE3UEA, asked for an inventory list and an inventory audit. Len, VE3SVD, pointed out that since turning over the inventory position to Vic, VE3LNX, it had been impossible to get access to the equipment due to snow and ice. Robert, VE3VKM, informed the members that a decision had been made at the previous executive meeting that individual committees would be asked to draw up budgets and that the free food and drink at functions would be limited for a while. He also showed a collection box made and presented by Len, VE3SVD, to be used for the repeater fund at club functions. Laird, VE3LKS, gave a figure of \$4437 as being already spent on the relocation project.

Richard, VE3RJB, gave a very detailed explanation of the expenses involved in field day, the repeater move and other expenses made over the years. Robert, VE3VKM, announced that Eric, VE3HMG, had resigned from the repeater committee. As chairman of the repeater committee Ralph, VE3CRK, is to investigate. A motion was made by Jim Sr., VE3SVM, and seconded by Richard, VE3RJB, that the repeater committee provide the membership with a preliminary budget and schedule for the April meeting and a final budget and schedule for the May meeting Carried.

Len, VE3SVD, needs volunteers for security and for placing advertisements for the fleamarket.

Next months meeting will not include a guest speaker due to the backlog of business to be attended to.

The 50/50 draw was won by Len, VE3SVD, (again), who generously donated the winnings to the repeater fund.

The meeting closed at 22.00. 30 people attended. (VE3UEH)

G.O.T.A.

Once again this year we recently held G.O.T.A. (Guides on the air), and as we had hoped it was a

success. On behalf of the **Oshawa Division of Girl Guides of Canada** I would like to thank all the Radio Amateurs that helped to plan and run the event this year.

Tom Rogers (VE3BTR) provided a demonstration of how a code oscillator board is constructed. Several girls found it fascinating to learn how to solder components onto the circuit board. I think if Tom plays his cards right, and brings the oscillator board he started this year back next year, maybe he'll have some help to complete the job. Who knows, it might even work with a little luck!

Jim Tower Jr. (VE3UQZ) set up a packet station that caught the attention of the older girls. They found that talking to **Whitby** through the computer was much more exciting than talking live to **Newfoundland**. I wonder if it was the charm of **Jim Jr.** or his connections that made him so popular?

Margaret Jeffery (VE3BNN) was a welcome addition to this years event. She brought examples of how electricity works using a wooden board with wires and paperclips and batteries, along with lots of books on Ham Radio. I think many of her "students" came away knowing a lot more about electricity and how it works, and they had a lot of fun in the process. I hope she will join us again next year!

Ralph Day a.k.a. VE3CRK a.k.a. Dear old Dad, donated the use of his equipment and his great radio side manner to the cause again this year. He made contacts with **Newfoundland** and **Alberta** among others. He also kept up with the event after the day was over by helping me to explore the world of Packet Radio through our own Commodore at home. We pulled off the bulletin board a message from a 10 year old in **Ireland** that my Brownie pack is going to send a parcel to soon. Just think how much HE learned about Packet from this event.

Howard Mugford (VE3TYQ) helped to set up the antennas and ran a 40 metre station. Unfortunately he wasn't able to get many connections on that band but he kept trying, until reinforcements arrived. We just don't seem to have much luck with 40 metres!

We had visits from **Glen Goslin (VE3LIZ)**, **Peter Johns (VE3WWZ)**, and **Jim Tower Sr. (VE3SVM)**. They came by to help out where they could and I think they all had a try at getting something on the 40 metres, with not much luck unfortunately. We are still glad though that they came to help. I hope you're thinking about next year too!

All in all, I think this year worked out better than last year and we thought that last year was good. So I know that next year will be better still. The **Oshawa Division Council** is going to hold the event every year, so we will probably have a bigger response each time it is held. As word spreads about **G.O.T.A.** I'm sure it will all be good.

Once again I would like to thank all the volunteers of this years event. I know I have only touched on all of the tasks that were done by all of you that day. We appreciate everything you have done to make this event a success. I was sent extra **G.O.T.A.** crests from the event so I am passing one on to everyone that came this year.

Maybe, with time you might find that you will have increased your numbers through this event. I'm considering going to the course in the fall to finally get a Ham Licence. So you must be doing something right? See you next year!!

Yours Truly, Heather Day (VE3 ???)
(soon to be maybe)

CRIME REPORT

A motorist was filling his cigarette lighter at traffic lights and accidentally spilled some fluid on his jacket sleeve. On lighting his next cigarette his sleeve burst into flames. He quickly wound down the window and waved his arm frantically outside, hoping the wind and rain would extinguish the fire - which it did. Looking in his mirror he noticed the flashing lights of a police cruiser behind him. He immediately pulled over and approached the officer. The officer began reading the motorist his rights and told him he was placing him under arrest. "On what charge?" asked the motorist. "Is it not obvious?" said the officer, "...careless use of a firearm of course!!"

For Sale AEA CP1 & CP100 rtty, cw interface with software, call for more info call VE3CXX Clare 905-433-8937

For Sale Dentron CM-1 amplifier interface asking \$40.00 or trade call VE3LNX Victor 905-983-5831

For Sale Heath SA-25002 KW auto tuner asking \$350.00 or B.O. call VE3CXX Clare 905-433-8937

For Sale Finals for FT101E's 6JS6C's, new, asking \$65.00 a pair call VE3LNX Victor 905-983-5831

For Sale Stark VTVM model VMK-3A, asking \$20.00 or B.O. call VE3MBO Wilf 905-263-2373

For Sale Heath 1420 VLF receive converter, manual, asking \$30.00 call VE3LNX Victor 905-983-5831

For Sale 4CX250B tubes, new asking \$40.00 each or for 4 \$135.00 call VE3LNX Victor 905-983-5831

For Sale 11 element 220 mhz beam by Cushcraft, asking \$30.00 call VE3LNX Victor 905-983-5831

For Sale Heath SB610 monitor scope, asking \$110.00 or B.O. call VE3CXX Clare 905-433-8937

For Sale Mariner 3000 digital radio direction finder, 12 operation, asking \$85.00 call VE3LNX Victor 905-983-5831

For Sale Bull horn with jack for external power jack, asking \$35.00 call VE3LNX Victor 905-983-5831

For Sale Sierra VLF receiver 1 kc to 350 kc, asking \$145.00 call VE3LNX Victor 905-983-5831

For Sale 40 ft. heavy duty mast pipe, you pick up, asking \$50.00 call VE3CNO Gary 905-576-1654

For Sale CSI Private Patch III auto patch, comes with full docs. asking \$400.00 or trade call VE3CNO Gary 905-576-1654

For Sale Low pass filter for HF bands rated at 1000 watts, asking \$25.00 call VE3LNX Victor 905-983-5831

For Sale Ham II rotor and control box and manual, asking \$275.00 call VE3LNX Victor 905-983-5831

For Sale IC-271A 2 meter all mode, comes with ALL options installed, call for more info call VE3CXX Clare 905-433-8937

For Sale Bird wattmeter elementss, 10 watt, 50 watt, 100 watt, VHF/UHF, \$55.00 each call VE3LNX Victor 905-983-5831

For Sale Hustler HF mobile antennas system 10-80 meters & mount \$165.00 call VE3LNX Victor 905-983-5831

For Sale Yaesu FT-101EX, 10-160 meters with mic and manual asking \$395.00 call VE3LNX Victor 905-983-5831

For Sale Ten Tec Omni-C 10-160 meters tranceiver with voice synth., asking \$650.00 call VE3LNX Victor 905-983-5831

For Sale 6146W series tubes, all tubes checked and guaranteed, asking \$45 + shipping call VE3LNX Victor 905-983-5831