N.S.A.R.C. Inc.
P.O. Box 171
Oshawa, Ont.,
L1H 7L1

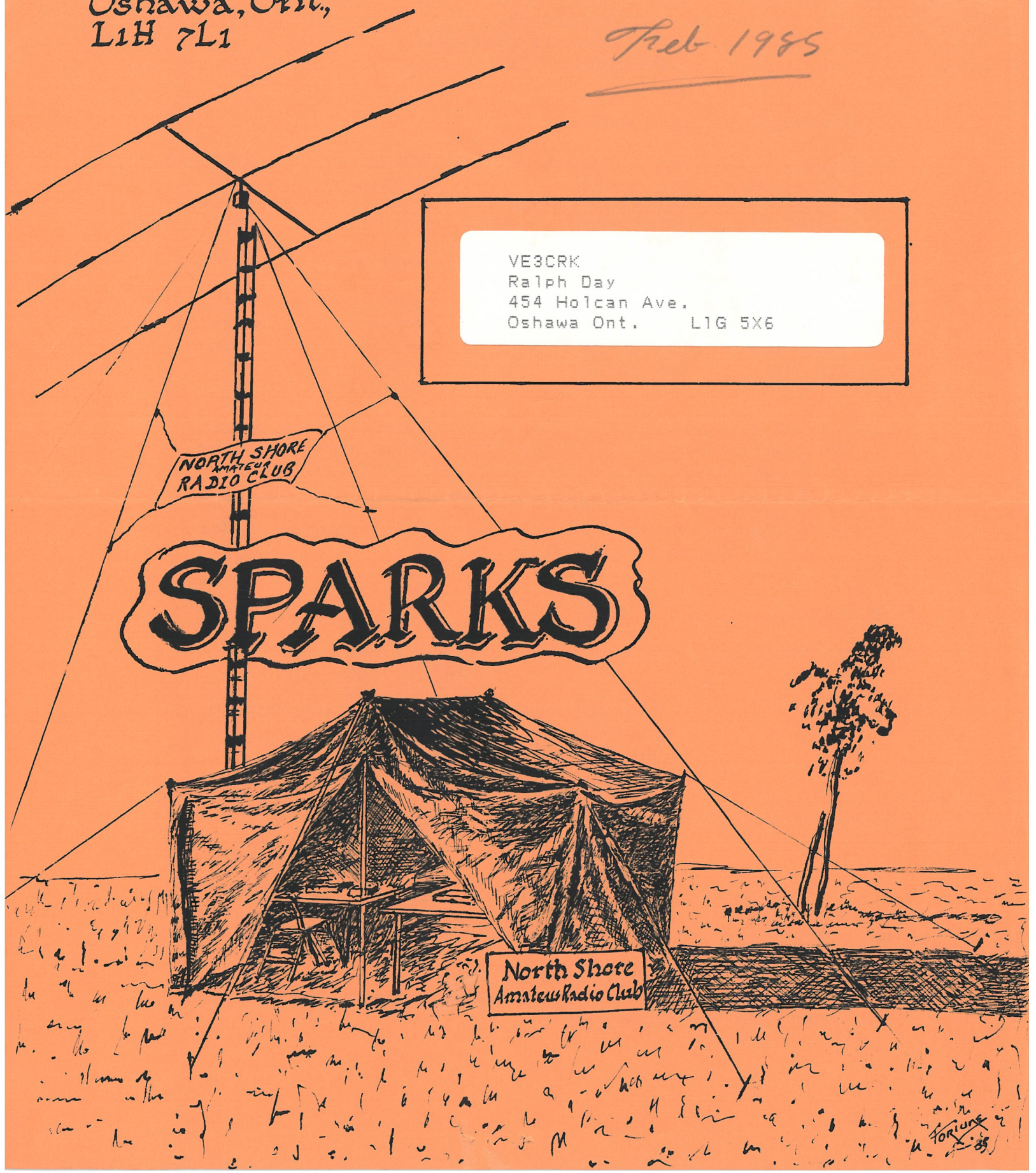
PORT PERRY
1 II 1985-17
ON

POSTAL CODE
CODE

CANADA
32

Feb 1985

VE3CRK
Ralph Day
454 Holcan Ave.
Oshawa Ont. L1G 5X6



NORTH SHORE AMATEUR RADIO CLUB inc. Newsletter

P.O. BOX 171
Oshawa, Ontario, Canada.
February, 1985

1985 EXECUTIVE AND OFFICERS.

President	Neil McAlister	VE3KSP	668-4161
Vice President	Joe White	VE3IHS	623-4069
Secretary	Charlie Bissett	VE3IBO	668-7481
Treasurer	Colin Bell	VE3CEU	723-7842
Program Co-ordinator	Roy Norton	VE3OHN	623-7125
Community Relations	Mark Johnston	VE3OBJ	623-1325
Registrar	Keith Wyard-Scott	VE3GDF	723-5758
Get Well Cards	Ted Brant	VE3ADD	668-3561
2 Meter Net	Roy Miller	VE3AAF	
Editor	Bill Fortune	VE3NTI	1-986-4513

N.B.a) the Executive meets the third Tuesday of the month.
b) information and articles for publication should be passed directly to the Editor at meetings, sent over the net, or mailed to: Bill Fortune, P.O. BOX 113, Blackstock, (L0B 1B0)
c) Clubs may reproduce articles. Credit please to North Shore Amateur Radio Club .

CLUB STATION.....VE3NSR

CLUB REPEATER.....VE3OSH 147.72 MHz. in
147.12 MHz. out

CLUB NETS 2 meters Net each Thursday via VE3OSH at 1930 hrs. - local time.
Net Control: Roy VE3AAF .

****

Monthly Club Meetings are held at 2000 hrs. on the second Tuesday of every month (except July and August) in the cafeteria of O'Neil Collegiate, Simcoe Street North, Oshawa.

Next Meeting: Tuesday, Feb., 12th. 1985.
Topic: Slide Presentation - Travelogue of Egypt - Neil (KSP)
Meet the New Executive.

FROM YOUR EXECUTIVE

Hi! For a new year, our club's directorship has some new faces, some familiar ones, and a number of changes that we hope will be beneficial.

NEW JOBS

In addition to the traditional posts of President (KSP), Treasurer (CEU) and Secretary (IBO), three new offices have been created. Joe White (IHS) is Vice President. Roy Norton (OHN) will serve as our Program Co-ordinator to arrange worthwhile social programs at the club's regular monthly meetings. Mark Johnston (OBJ) has been appointed Community Relations Officer responsible for liaison with the media, local government and schools. A regular executive meeting will be held on the third Tuesday of every month, attended by the five directors, any past presidents who may wish to attend, the Community Relations Officer, and the Newsletter Editor.

MEMBERSHIP IS TOP PRIORITY

1985's top priority is Membership. To discourage drop-outs from our ranks, reminders to members who have not renewed their dues have gone out with this issue of the NEWSLETTER. Far more ambitiously, we are seeking out all "hams" in the region who do not yet belong to our organization, so that we can invite each one of them to join us on an individual basis. Anyone who is enjoying QSOs on the club repeater should be encouraged to join N.S.A.R.C.. A job this big cannot be handled only by the executive or left to the "other guy". This is YOUR problem. It is reasonable to expect each current member to recruit at least one new member in 1985. Mark (OBJ) has particular interest in taking Ham Radio into schools-- a project about which some of us are very enthusiastic. Suggest you see him to volunteer your experience and expertise.

Roy (OHN) will take charge of recruiting more White Cane members for our club. He wants sponsors for new visually-impaired hams. If you can contribute to this worthwhile and not-very-time-consuming activity, please contact him. Roy, Charlie (IBO), and Steve (JPJ) will have "Talking Book" cassette tapes of our Newsletter within the next month or so.

IMPROVING OUR IMAGE

To help spruce up our image with the public and with potential new members, N.S.A.R.C. needs a modern LOGO for club stationery and press releases, and for use on a proposed uniform. The uniform could be some kind of inexpensive, light-weight, plastic jacket that can double as a raincoat during club events, (like some American clubs have). Please bring your designs and suggestions to the next meeting.

THE FLEA MARKET

Essential to the financial survival of this club is the annual Flea Market on Saturday, April 13th. It will be bigger and better, with an FT209 as the super prize this year! The $3.00 admission fee will result in increased revenue for the two sponsoring clubs.

N.S.A.R.C. is responsible for security, parking, public address system, and half of the set-up and clean-up crews (in which we were shamefully under-represented last year). If every one chips in, every worker will have plenty of opportunity to tour all exhibits. If renting a table, please double-up with a buddy so that each of you can work part-time.

BE WARNED:

If N.S.A.R.C. doesn't pull its own weight this year, our sister club in Pickering will be forced to go it alone in 1986, thereby depriving us of our biggest source of income.

Contact the executive, or the Flea Market Co-ordinator, Ralph Day (VE3CRK), to find out what you can do. If you intend to be at the Flea Market at all this year, there is absolutely no excuse for refusing to lend a hand. Our club's future depends on you.

73's for now. We're looking forward to a challenging year, and we hope for a large attendance at all meetings, because this club needs your ideas and enthusiasm.

Neil VE3KSP, President

R.S.O. MEETING, TUESDAY 8th.JANUARY, 1985.

According to Evan (our rep and Vice President of R.S.O.) the licence plates for VE3s may now be obtained through your local licence bureau.

ONTARS will remain unchanged at 3.755 MHz. There had been a recommendation to move to 3.740 MHz. because of potential interference from U.S. amateurs who can now operate to 3.750 MHz.. According to the president,(R.S.O) however, some phone nets have already moved or will do so shortly.

SSB (Sell, Swap and Buy).

Yaesu FT207R hand held portable, manual charger, speaker mike and carrying case
See: Gary Helferty VE3CNO 1-416-576-1654
Price negotiable.

Ham Station in good working order.
Drake 2B receiver and Apache transmitter with SB10 sideband adapter
See: Dave Green VE3FYB 683-3395
Complete $250.00

Kenwood TR2600 2 meter synthesized handheld, with 10 memories, digital control squelch, programmable offset, (programmed into memories), brand new, never used, and still in box...
See: Dave Swiderski VE3LEW 985-3553
Guaranted $469.00 plus tax (negotiable)

LOST TAPES

VE3IND (Evan) loaned several code tapes, commercially prepared, to someone in the club several years ago and they were never returned. Evan wants them to pass to "Powerful Tom Rogers", who, as everyone involved in the Field Day knows, has been a "source of strength" to the club.

The Old Timer's Corner

by

Edwin H. Taylor VE3FRM

I hope you enjoyed the trip with VE3DYE last month, I know I did! This month we will take off with an adventure from Bob Leet, VE3LLZ.
While not an OT to amateur radio, Bob was no stranger to wireless when he wrote for his ticket in '79. Back in '41, inside the cold halls of Tuxedo Park Winnipeg, Bob had written a tougher but similar exam in radio. He passed with flying colours and emerged - -Bob Leet Wireless Air Gunner First Class!!!
Bob didn't waste any time, before long he was up to his armpits in the fracas and writing letters home from merry old England. Some of these even made the home town papers in Montreal! Edward R. Murrow had some real competition!!! Perched behind his Marconi R-1155 tuning the airwaves, Bob had logged thousands of miles criss-crossing Europe inside Lancasters, Halifaxes and Wellingtons. The British were very friendly and made Bob's Canadian crew feel right at home. ---But he remembers one morning when his group almost wore out their welcome!
While on final approach they developed severe engine trouble, broke off a few lamp standards and crash landed on the Great North Road outside the village of Tangmere. You can imagine the rude awakening of the town's folk when these wild Canadian boys came tobogganing noisely down the highway in a flaming Halifax bomber!!!
Bob has many fond memories of his years spent in the British Isles and in a way England paid her due to Bob for his valour, she gave to him his lovely bride Joyce. I have had the pleasure of chatting with Joyce several times and found her most enchanting. Bob has not only served on the club's executive but also has been very active in club public service projects. It's a pleasure to know you Bob and a tip of the hat to you!

Jack Hill, VE3VH: Regretfully I missed out on the chance to interview Jack before he moved to Langly B.C. for his retirement. Jack at one time worked for the old Yukon Telegraph Co. and should have had many good stories to tell. We will miss his jolly personality at the meetings.

I wonder if any of our OTs participated in the tests carried out by the USN derigible Shenandoah before and during it's trek to the North Pole? These tests were carried out under the auspices of comander Hoyt Taylor USN in '23 and '24. The purpose of these tests were to study and document the MUF between 50 and 200 meters for daylight communications. Call signs used were NSF, NOF, NFK and NERA. For the summer flight into the land of "Midnight Sun", the Shenandoah carried a 50w tx operating on 100 meters. Another tx described as the most powerful airborne rig of the time was a 250w ACCW job operating from 200 to 500kc. All amateurs were requested to participate in two way communications with the dirigible. Can you imagine the bedlam this would create among the ranks of today's "mod" ham? (Shades of the Columbia mission)!
When I was a young fella, I had the good fortune to work with an OT who had been an engineer aboard the Shenandoah. Boys O' boys, I wish I could tell you some of the adventures he told to me!

OT Broadcast skeds: Scrub the listing for CHUM FM, nothing but noisy music now.

CKQT	94.9mc	9 to 11pm weekdays. Big Band Music. Real good listening.
CJCL	1430kc	"Music of your Life" Daily. Good music from the 30s through to the 50s. Evenings, "Make Believe Ballroom Time". Swing n' Sway.
WCAU	1210kc	9 to 10pm Weeknights. (Phil. PA) "Inersanctum" etc. Good stuff!
WHAM	1180kc	10 to 11pm Weeknights.(Rochester)"Jack Benny" etc.
WEBR	970kc	6 to 7pm Weekends. (Buffalo)"The Great Gildersleeve" et al.

Got any new listings? Send em in! We need more radio, less TV!
By the way, for you young fellas, a wireless gunner is not someone who got it shot off in the war!

73

HIGHLIGHTS OF LAST MEETING

At the last meeting a new executive and officers were elected (see revision inside front cover) and we had a presentation from Phil Washburn VE3HAA of the South Pickering A.R.C. (chairman of the Oshawa/Pickering Flea Market). Phil gave a comprehensive overview of the present arrangements.

D.O.C. Examinations

Planning ahead! In 1985, DOC will hold examinations across Canada on Feb.13th., April 17th., June 19th. and Oct.16th.. Submit applications about one month before date of each writing.

FROM "THE CLARION" thanks to Ruby (NLR)

From the Canadian Ladies' Amateur Radio Assn.,(CLARA) we learn that Muriel Foisy (VE7LQH) is now Vice President of that organization.

General Net Information.

CLARA 20 Meter Afternoon Net	1800z	14.160 Tuesdays
CLARA After Dark Net	0200z	14.120-14.125 1st, 3rd & 5th Tues.
CLARA 10	1900z	28.488 Sundays VE7CBK NC
Dogwood Net	0300z	3.775 Thursdays VE7CBK NC
Dogwood CW Net	0300z	3.675 Last Thurs. each month
Wild Rose Net	0300z	3.775 Mondays VE6AUP NC
Maritimes Sparkettes Net	1000	Atlantic time 3.770 Weds.
Trillium Net	1600	Toronto time 3.770 Sats.

PRESIDENTS' COUNCIL MEETING

Joe (IHS) reported that the delegates saw a great need to recruit young members to ham radio. It was generally agreed that they have many interests and that some means must be found to attract them to our hobby. The code in their opinion remains the major obstacle. Joe who was well received, "treated royally", at the meeting, found it informative and rewarding. He has one suggestion to offer; since many young people have keyboards today why not use them as a motivating feature?

We do not have a rep. for the C.N.E. and it is imperative that we find someone to assume this responsibility.

SPONSORSHIP REQUIRED

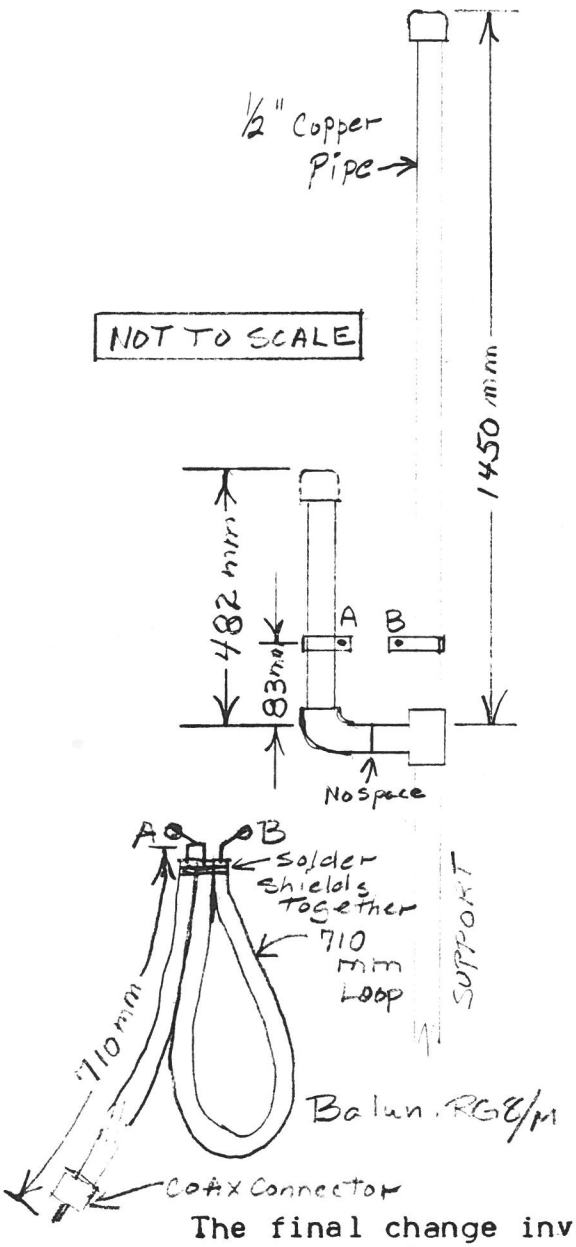
Blind lady living in Newtonville is greatly in need of a sponsor - someone, preferably living east of Bowmanville. Help is needed to erect an antenna and get her "on the air". Please see Jack (SJ)

ON THE SICK LIST...

At the time of writing, Milt Graham (VE3QN) had been admitted to the Dr.J.O.Ruddy General Hospital in Whitby. (668-6831). We wish him a speedy recovery.

CHEAP, INDESTRUCTIBLE J-POLE TWO METRE ANTENNA - VE3BHQ Version

Here is a revised version of VE3LLE's Cheap, Indestructible Two Metre J-POLE Antenna featured in the NSARC Bulletin for October 1984.



Bob notes in his article that the feed point tuning is very critical. Upon building the antenna, I found that it behaved very strangely when attempting to check its resonant frequency. After reviewing some transmission line theory, I decided that the spacing between the elements of the matching section of the antenna was too large.

To solve this problem, one elbow was eliminated and the "T"-fitting was oriented with its straight through section in a vertical plane having the 3/4 wavelength element in the top of the "T", and the support pipe in the bottom of the "T", as shown in the diagram. With the elbow now coupled as closely as possible to the right angle side of the "T", the 1/4 wave matching section element is now one half the previous spacing from the 3/4 wave element. This change resulted in a major improvement in the resonant characteristics of the antenna by reducing the impedance of the 1/4 wave matching section.

Using the original dimensions of 58 inches and 19 inches for the two elements, the resonant frequency of the antenna was much too low. This problem was corrected by very carefully shortening the antenna until it resonated at 146 MHz with the end caps in place. The new measurements are shown on the revised diagram.

The final change involved a major change in the feed method. The 1/4 wave matching section is actually a 1/4 wave section of balanced transmission line. This requires a balun to go from the unbalanced coaxial transmission line to the matching section. In order to make matching easier and less critical, a four to one balun should be used to step up the 50 ohm impedance of the coaxial line to 200 ohms. If RG/8M Mini-Foam line is used the dimensions shown for the balun should be accurate. The RG8/M which I used had a velocity factor which was about 6% less than the velocity factor stated in the RG8/M specifications, thus it might be wise to check the length of a 1/2 wave section of coax by shorting both ends and

checking the resonant frequency with a grid dip meter. Be sure to listen with a receiver to be sure that the GDO cal ibration is accurate. If the length is ok it should resonate at 146 MHz. In order to make final adjustment easy and accurate, feed the balun with a 1/2 wavelength of RG8/M, or multiple of 1/2 wavelength, as shown in the diagram. This allows the SWR bridge to be connected at a point which has the same impedance as the antenna feed point.

Tuning the antenna is now a very easy operation. The feed point dimensions shown in the diagram should work fine, however, it would be wise to check this with a GOOD SWR bridge. Most inexpensive and homebrew SWR bridges are liars at two metres! Use a Jones Micromatch or a Bird if your can obtain one. Connect the SWR bridge to the end of the 1/2 wave section of coaxial transmission line and adjust the position of the feed point clamps for 1.0:1 SWR at 146 MHz. The adjustment is not critical, and in fact very broad. Now check the SWR at 144 MHz and 148 MHz. After adjustments are complete, use coaxial connector sealant to seal the feed points and the copper feed straps.

My J-Pole antenna has an SWR of 1.0:1 measured with a Jones Micromatch, from 144MHz to 148 MHz! It has the broadest frequency response of any antenna which I have ever constructed! I had no convenient means of determining how far below and above the two metre band the antenna would tune, however, it appears that with suitable changes in dimensions, it would be a very simple and inexpensive solution for a Marine VHF antenna on the top of a boat mast.

To-date, I have been very pleased with this antenna and it is so non-critical in adjustment that if the dimensions shown in the diagram are followed, it should work splendidly without any additional adjustments. Start the New Year by having some fun making an antenna, and at the same time, save enough money for a couple of amateur radio magazine subscriptions!

Farncomb Le Gresley, VE3 BHQ

LAST WORD FROM THE EDITOR

Many thanks again for those who have contributed to this issue submitted by mail, via the net, or at the meetings. You make my work that much easier. A special thank you to Farny (BHQ) and Ed. (FRM) for their excellent articles.

Had hoped to publish an up-dated list of paid up members but unable to do so as there are still too many with outstanding dues.

Should like to draw your attention to the following items;

a) the actual number of licensed amateurs declined in the U.S. last year

b) at the CARF Symposium last Oct. 27, as reported in the current issue of QST (p.61), recommendation 5 reads: "introduce a new entry-level amateur licence with reduced code and theory requirements and limited CW privileges on HF bands. Holders of this licence would need sponsors who were Advanced Amateurs, and they would be required to upgrade to an Amateur licence within one year".

Still looking for the feed back to the controversial issues presented to the membership in the December issue of the Newsletter. Comments too, would be appreciated re: a) the novice type licence and b) how to increase membership and member participation.

73 - Bill VE3NTI

** NORTH SHORE AMATEUR RADIO CLUB INC **

FINANCIAL STATEMENT FOR THE YEAR ENDING DECEMBER 31, 1984

INCOME	
Membership dues	$ 1213.00
1984 Flea Market	$ 1015.00
Repeater Donations	$ 112.00
Miscellaneous - (raffles, crests, book sales, bank interest etc)	$ 1413.86
TOTAL INCOME	$ 3753.86
EXPENDITURES	
Bulletin	$ 708.26
Repeater	$ 407.59
Valentine Dance	$ 713.04
Field Day	$ 238.38
Corn Roast	$ 104.36
Wine and Cheese Party	$ 70.30
CNE	$ 100.00
Flea Market	$ 300.00
Miscellaneous - (sick & welfare, call books, insurance stationary supplies, etc)	$ 1291.58
TOTAL EXPENDITURES	$ 3933.51

- - - - - -

BANK BALANCE AT JANUARY 4, 1985 $ 1143.87

THIS COUPON IS WORTH $2.00 OFF THE COST OF REGISTRATION WHEN YOU PRE-REGISTER BEFORE SEPTEMBER 6, 1985.

CRSO '85 LONDON

The Radio Society of Ontario/
Canadian Radio Relay League
Joint Annual Convention
September 27 - 29, 1985
Holiday Inn - City Centre

DISPLAYS/DEMONSTRATIONS/PRESENTATIONS/FILMS/FELLOWSHIP

THEY WILL ALL BE IN LONDON ONTARIO SEPTEMBER 27-29, 1985

Offer valid until September 6, 1985. One per registration.

GOURMET GOODIES

by Dave VE3LEW

SWEET AND SOUR PORK

Although deep frying is passe for everyday meals, it can do a lot to enhance supermarket pork specials for special dinner parties. The egg yolk in the marinade gives the crust on the pork cubes extra crunch.

PREPARATION TIME: 35 minutes
MARINATING TIME: 30 minutes
COOKING TIME: 13 to 14 minutes

500 g (1 lb) boneless lean pork, cubed or sliced
salt and black pepper
1 egg, slightly beaten
1 tsp soy sauce
2 cups vegetable oil
1 onion, chopped or sliced
2 cloves garlic, crushed and chopped
1 tomato, chopped
1 green pepper, seeded and chopped
2 stalks celery sliced
1/2 cup canned pineapple chunks

SAUCE

2 tbsp vinegar
2 tbsp granulated sugar
1 tbsp tomato catsup
1 tsp chili sauce
1/2 cup cold water
2 tbsp cold water
1 tbsp cornstarch

Slice pork into 1-inch cubes or thin strips. Season with salt and pepper. Stir in egg and soy sauce into seasoned pork in a bowl and set aside 30 minutes.

Remove pork from bowl and coat cubes evenly with cornstarch. Heat oil in a wok, add pork and cook over high heat until coating is golden brown, 5 to 6 minutes. Remove pork from wok with a skimmer or slotted spoon to paper towels. Drain oil and clean wok.

Heat wok over high heat and add 2 tablespoons of oil. Add onion and garlic to hot oil and cook over high heat 30 seconds. Add tomato, green pepper and celery; stir-fry 3 minutes. Add pineapple chunks and stir in combined vinegar, sugar, tomato catsup, chili sauce and 1/2 cup water. Bring to a boil and simmer 3 minutes. Mix corn starch with remaining water and add slowly to wok. Return pork to wok and cook, stirring, one minute. Serve with rice, a stir-fried vegetable or a salad. Makes 3 main-course servings.

FOURTH ANNUAL

DURHAM REGION AMATEUR RADIO FLEA MARKET

ORGANIZED BY: SOUTH PICKERING AMATEUR RADIO CLUB INC. VE3SPC
& NORTH SHORE AMATEUR RADIO CLUB INC. VE3NSR

SATURDAY APRIL 13, 1985
8:00 am to 1:00 pm

Pickering High School
Pickering Village

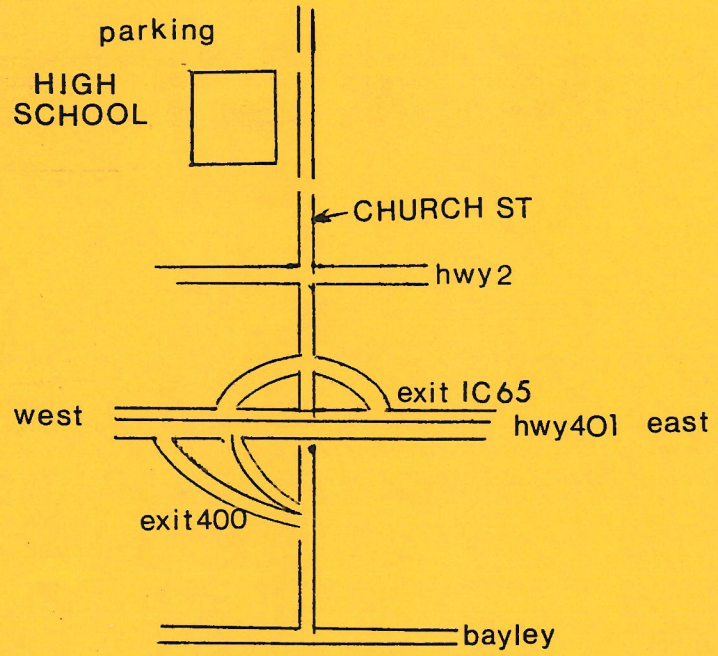
ADMISSION ONLY $3.00 ea. - includes ticket on Super Prize FT 209R HT
(12 & under free)

DOOR PRIZES & COMMERCIAL DISPLAYS
REFRESHMENTS AVAILABLE

VENDORS:

doors open vendors only
6 am to 8 am
Tables $5.00 ea. PLUS ADMISSION

Information & Table Reservations payable to: PHIL WASHBURN VE3HAA
34 ALBERY CRES. AJAX, ONT.
L1S 2Y3 - 1-416-683 3368



TALK-IN FREQ.
52/52 Simplex
7.975/375 VE3SPA
12/72 VE3OSH