

SEPT/92

NORTH SHORE AMATEUR RADIO CLUB "SPARKS"

CLUB CALL VE3NSR CLUB REPEATERS, VE3OSH 147.120 & VE3NAA 443.000 N.S.A.R.C. EXECUTIVE FOR 1992

President	Richard Button	VE3RJB	725-7150
Vice President	Margaret Jeffery	VE3BNN	725-1238
Treasurer	Greg Schatzmann	VE3GJS	576-4655
Secretary	Fred Bengel	VE3TIG	576-4839
Program Director	Peter Johns	VE3WWZ	723-9049

CLUB COORDINATORS

A.R.E.S. Coordinator	Margaret Jeffery	VE3BNN	725-1238
Special Events Coordinator	Ralph Day	VE3CRK	576-8738
Bulletin Editor	Victor Doty	VE3LNX	983-5831
Bulletin Publisher	Glen Goslin	VE3LIZ	725-1545
Club Historian	Mike Sherba	VE3DKW	723-7674
2 Meter Net Control	Roy Miller	VE3AAF	852-5447
Registrar	Keith Wyard-Scott	VE3GDF	723-5758
Get Well Cards	Colin Bell	VE3CEU	723-7842
Nonquon Canoe Races	Glen Goslin	VE3LIZ	725-1545
CNE & Field Day	Greg Schatzmann	VE3GJS	576-4655
Instruction Coordinator	Rick Gibson	VE3ASH	434-2886
Auditor	Harry Westwood	VE3QG	683-5104
Lists and Labels	Paul Dale	VE3LHZ	434-6741
Jamboree On The Air	Tom Rogers	VE3BTR	640-5549
Club Inventory	Doug Barnes	VE3WJR	357-2342
Ride For The Handicapped	Ray Zambonelli	VE3OUB	723-2467
	Ralph Day	VE3CRK	576-8738

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VE3CRK
Ralph Day
454 Holcan Ave.
Oshawa, ON
L1G 5X6

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



The 2 meter net convenes Thu. night at 7:30 on VE3OSH the club rpt., code practice 8:30 to 9:30 provided by Bernie VE3ATI from September to June then Bernie goes on holidays.

Last Months Trivia Answer:

The answer to last months trivia question is: **Hiram Percy Maxim** was president of the ARRL from 1914 to 1936. (Editor)

Some Response:

I had a couple of replies to my questionnaire in last months bulletin, but I am sure that there must be a couple more out there some where that have been filled in but put under a pile of papers and forgotten (I know how easy that can happen) so if that's the case they can be dropped off at the September meeting or mailed to me direct. (Editor)

This Months Trivia:

In what year was the North Shore Amateur Radio Club formed and who was President. (Editor)

Golfers Forever:

There are people out there who will play golf from morning until night rain or shine seven days a week fifty two weeks a year if that were possible, so why would a few little things like this slow them down the least, as long as you follow the path there is no problem. Hihi. (Editor)



New Prefix:

An apology goes out to **VE3GJS Greg**, seems as I gave you a new prefix last month of **VEE3GJS**, sorry Greg. (Editor)

Some Say:

The best reformers in the world are those who have started on themselves. (VE3PLM)

A New Repeater :

Some people already know, but there are a lot who don't know yet about the new repeater that is up and running in **Oshawa, VE3OUR**, owned and operated by **VE3LIZ Glen** is now up and operating in the east end of Oshawa on **443.475 MHZ** with a + offset. Glen and Len **VE3SVD** have been working on this project for some time quietly in the back ground (so quietly in fact that I didn't know about it and I usually don't miss too much) Glen has plans for incorporating several more options into the machine., but at this time it is still in the design stages. Good luck with your project Glen and Len. (Editor)

Bob Says You Are Getting Old When:

You order Geritol-on-the-rocks at the bar (or) your mind makes agreements your body can't meet. (VE3LLZ)

Design Of Printed Circuit Coils:

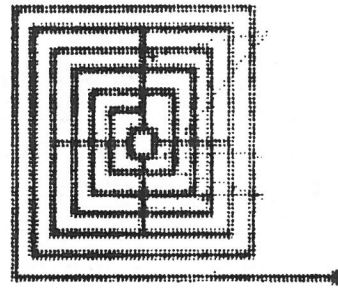
The fabrication process of printed circuit components results in essentially fixed device parameters. Considerable variation in the inductance value of coils occurs as a result of spacing, plating thickness, and the physical relationship of the component placement and the location of the circuit ground plane. The fixed printed coil must be trimmed in order to obtain the desired inductance value. One solution of this problem is shown in the diagram. A spiral-like coil in printed with

several extra turns which increase the realizable coil inductance; shorting connections are also included to reduce the inductance. The shorting connections not only short the extra turns, but also short out several turns of the main body. Coil tuning is accomplished with relative ease by removing the shorts until the desired inductance is obtained. Approximate printed coil lengths and fabrication parameters are obtained by calculations from circuit models or experimentally determined design curves. After the approximate coil dimensions are obtained, the printed-coil layout is constructed with the several extra turns and shorting bars. Shorting connections are then removed from the coil until the exact value of inductance is obtained. This procedure calibrates the layout and subsequent photoetching process. Once the exact coil geometry is obtained, the designer has several options. If there are a limited number of active devices in the circuit, the existing printed circuit art work may be modified by removing the appropriate shorting connections. On the other hand, if the circuit contains a large number of active devices, individual coils may be trimmed to account for the differences in active device parameters. The former approach was in phased-array receiver. Nineteen coils of values from 0.05 to 0.1mH were used in a variety of circuits such as delay lines, hybrids, and amplifiers. For the larger coils a tolerance of plus or minus two percent was obtained, and a tolerance of plus or minus one percent was obtained for the smaller coils. The cost per coil was very competitive with commercially available fixed or tuned devices. In addition, the advantages of the printed wiring approach were obtained at minimal cost. NASA Tech Brief

69-10665 (Editor)

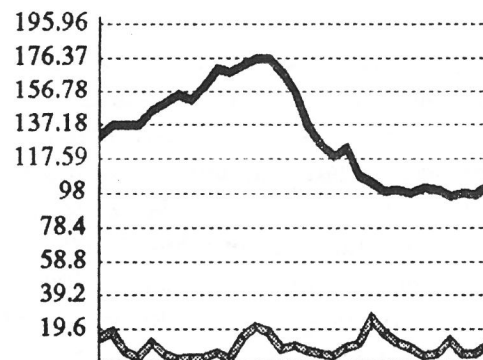
Did You Know

A 3-month-old fetus already has a distinctive set of fingerprints. (VE3PLM)



Diag. A. A spiral printed-circuit coil

Solar Flux For July :



The average solar number for the month of July was 132.3, the "A" index average was 9.3. (Editor)

The September Meeting:

For anyone who may be even remotely interested in IPARN (which stands for Inter Provincial Amateur Radio Network) the September meeting is a must. The program will be put on by VE3NGT Casey Coley from Bowmanville, I am not sure if there will be a live demo or not but Casey will be able to answer any and all questions you may have concerning the IPARN system, so plan to attend. (Editor)

Transmitter Hunts Coming This Month, Be Ready!

Minutes Of The August Meeting:

Well as you may have guessed by now there were no minutes of the last meeting as everyone was too busy eating corn and having good time, (besides Fred VE3TIG and family are not back from Europe as of yet) this month things should be getting back to normal and the summer activities will be finished for another year (now we have fall and winter to look forward to). (Editor)

Doppler Units, Where Are They Hiding:

Now that the holiday season is over for another year it I believe time to start having some serious transmitter hunts, there are a lot of Doppler units out there that have not been completed or started for that matter, so lets get that bag of parts out and warm up the soldering iron. Last year Glen VE3LIZ offered to help anyone who had problems putting the unit together and that still stands this year, if a bunch of people want to get together one Saturday and sort things out, get a few things straight that may confuse you about assembling the kit, Glen is more than willing to host the group at his QTH. As stated earlier though Glen is more than willing to help you get started with the project, **BUT HE DOESN'T WANT TO BUILD THE KIT FOR YOU**, but just get you going in the right direction.

(Editor)

Bob Says You Are Getting Old When:

After painting the town red, you have to wait a long time before applying a second coat.

(VELLZ)

Report On VE3RP:

I am not sure how many of the newer members in the club know Rae Petley VE3RP, unfortunately Rae has another commitment that falls on Monday nights so he has not been

able to make any meetings in many years. Rae is one of the people working in the background of VE3OSH and VE3NAA , when ever there is testing to be done on the repeater you will hear Rae along with Harry VE3QG and Eric VE3HMG. But the remainder of the time he is in the background, but if you are on VE3NAA 443.000 mhz you will occasionally hear Rae from time to time in the mornings, but to bring you up to date with the current situation, Rae has had heart by-pass surgery in the last few days, and is in St. Michaels Hospital in Toronto, by the time you read this he will probably up and around and nearly be ready to come home. We all wish him a very speedy recovery. (Editor)

Report On VE3OUB:

I am sure most of you know Ray Zambonelli VE3OUB of Oshawa, well Ray has been in and out of the hospital a few times over the last couple of months, nothing real serious , but is now home and making a speedy recovery, we all wish you a speedy recovery Ray. (Editor)

Bulletin Articles:

Does any one have any interesting articles to add to the bulletin, if you come across an article that looks interesting and think some people would get some benefit from it let me know and I will try my best to include it in the bulletin shortly.

Winterizing VHF/UHF

Mobile Antennas Systems:

Unfortunately with the weather we have been having lately it reminds us that (BRRR) winter is just around the corner, and that it is time to start thinking about preparing your antenna system for the winter weather while we still have some of those warm days left to do it in. (before you end up doing it with frozen fingers) Start by removing the antenna and mount from the vehicle, completely disassemble the mount. Remove the coax and rinse the mount with hot water for several

minutes. After drying the mount thoroughly (use a hot air source such as a hair dryer), check the antenna with an ohm -meter, infinity should be indicated with out the coax connected. Reconnect the coax to the base of the antenna and recheck with the ohm -meter, infinity should still be indicated. The most common cause of antenna problems in the winter is SALT deposits forming inside the base of the antenna, so some type of sealer should be used to prevent moisture and other foreign material from getting into the base of the antenna. Silicone bath tub sealer (clear) works very well . For cleaning the antenna outer housing of the antenna can be done with a common house hold cleaner of the powder variety. A tooth brush works very well to perform this operation with. I also prefer to use some silicone based grease on the threads where the unit screws together to help keep out moisture. It is much easier to perform this maintenance in warm weather than in sub zero temperatures when you find that all of a sudden you are nor receiving as well as you used to, and if you doubt my word and you are using a magnetic mount antenna that is a couple of years old, just lift the tape from the base of the antenna and have a peek inside, I hope you are not too squeamish when you look in, but then every once in a while some people get lucky and the seal around the base didn't leak and corrode the inside. Bill Horger, WB8SFZ

Taken from Hints & Kinks (Editor)

The Corn Roast:

The weather unfortunately didn't cooperate and the corn roast was cancelled and rescheduled for Tuesday evening, I hope no one showed up at the site on Monday evening. Finally on Tuesday evening things came together about 6:30 PM, so anyone who didn't make it to the Annual N.S.A.R.C. Corn Roast missed a great evening . Ron VE3AIY and his XYL, Ray VE3OUB, Walter VE3FJC, Peter VE3WWZ and his XYL did a super job on

organizing and arranging the event. There was as usual lots of corn, soft, drinks and hot dogs for those who desired them. The finishing touches of the event was the cake furnished by the XYL of Keith VE3MUA. The evening was a great success as many people who had not met since last August renewed acquaintances and again had a fine evening. There was approximately 70 people in attendance and everyone had a great time, even though it cooled off very quickly after the sun went down. I understand that the mosquitoes got rather hungry about dusk as there was not else to eat in the parking lot except people. Unfortunately I was not able to attend as duties called for me to be elsewhere, hopefully I will be able to attend the festivities next year. (Editor)

CNE Day

As usual there was a good turn out from the N.S.A.R.C. to operate the CNE station on our club day, I am not sure of the total who showed up, but I understand from Greg VE3GJS that things as usual went well and everyone had an enjoyable time. (Editor)

Guides On The Air:

It will soon be time again for "GOTA" (Guides On The Air) so anyone interested in getting involved contact VE3BTR Tom Rogers as he is coordinator of that event and will be setting up and operating a station using the club call VE3NSR, so give Tom a call, he can use some extra help setting up and manning the station. (Editor)

Did You Know:

New rule on Radials, Remember the old radial tire rotation rule: move radial tires front to back and visa versa, but never cross them? Scrap it. Improved car and tire design has made it possible to cross tires without problems. In fact, it's recommended for more consistent wear, extending tire life. Cross radial tires

front-to-back(front left to right rear) for best results. (VE3PLM)

VE3AMM Silent Key:

I am sorry to report the passing of VE3AMM Steve Znidercic of Port Hope, Steve was a member of the North Shore Club for many years, although not in the last few years. Steve will be missed by many of the people who frequented the Sanderson Hour on 3.762.5 mhz nightly , not only to the people who checked in, but to the many 100's of listeners as well. (Editor)

New Secret Weapon:

It seem as VE3HMG Eric has been busy burning a little (or possibly a lot) of that proverbial midnight oil, I understand that he has a prototype hand held DFing unit on the bread board. From some spy reports it looks very interesting and if it turns out well it could change the whole aspect of DFing up close from maybe over there or over here to YES! RIGHT HERE!!! But anyway maybe this is just a little wishful thinking at this time, but I expect we will find out at one of the club meetings when Eric unveils the new secret weapon. (Editor)

Peter Says:

Always remember that money isn't everything but you better have a lot of it before making such a statement: and did you know that :

Once a Man, twice a boy:

And then Then there were the two men, George and Bill who both worked for the telephone co., putting in telephone poles. At the end of their first day, the foreman asks them how many they put in. George says 12, Bill says 2, the foreman says to Bill, " Two? George put in 12!" Bill says, " Yeah, but look how far HIS are sticking out of the ground!".

(VE3PLM)

Helpful Hints:

To freshen up stale pot-pourri. spray with a bit of vodka. (or)

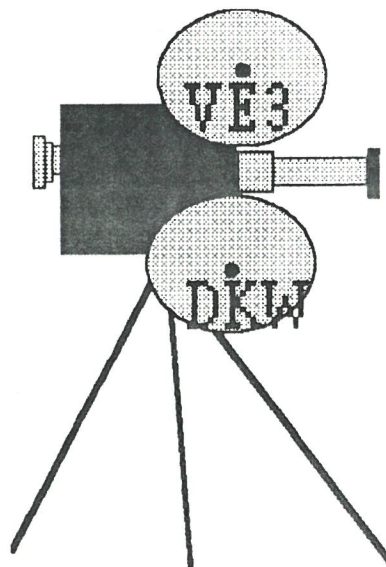
Sure fire way to thread a needle! Spray some hair spray or spray starch on your finger and apply to the end of the thread. It will stiffen just enough to thread easily. (Editor)

VE3RP Up Date:

As I mentioned earlier in the bulletin Rae was scheduled for surgery on the 24th of this month, well it seems as an emergency case developed the operation and it has now been rescheduled for September 3rd at 8PM, so anyone wondering what Rae's about condition is now brought up to date. (Editor)

Club Historian:

Now that we have an official N.S.A.R.C. Historian I think we can expect to see some of the fruits of his labours this winter, especially some footage of all the events that have been recorded on video tape in the last year.



Mike you are doing a fine job and I understand you have a volunteer to help you sort things out and get organized so good luck with the project.

Wanted Meissner Signal Shifter,
National SW3, PreWar WWII Freq. calibrator.
call VE3DKW Mike 416-723-7674

Wanted Old frequency meters, the older
the better.
call VE3DKW Mike 416-723-7674

Wanted Pre 1945 QST's, any shape, part
or full years ok.
call VE3DKW Mike 416-723-7674

Wanted HRO or CR91 communications
receivers.
call VE3DKW Mike 416-723-7674

For Sale Heath SB-610 monitor scope,
with manual , asking \$125.00
call VE3FHV Hank 416-985-9864

For Sale Heath HM-102 HF wattmeter,
manual , asking \$30.00
call VE3FHV Hank 416-985-9864

For Sale 300'-400' of hardline 1/2" 75
ohms @ \$0.50 per foot.
call VE3PLM Peter 416-434-8222

For Sale Apple Printer, works fine, but
not on commodore, best offer.
call VE3PLM Peter 416-434-8222

For Sale One 1934 copy with original
paper jacket of "The Treasure Hunt Of The
S-18 , asking \$15.00
call VE3FRM Ed 416-985-3790

For Sale Yaesu YO-100 monitor scope,
manual, works fine , asking \$175.00
call VE3LNX Vic 416-983-5831

For Sale Icom IC-402, 70 cm transceiver
ssb/cw/3watt, asking \$225.00
call VE3LNX Vic 416-983-5831

For Sale Alinco DR-510T, mobile mount,
manual, asking \$425.00
call VE3PLM Peter 416-434-8222

For Sale Plumbers delight 2m kilowatt,
pair of 4cx-250's , asking \$400
call VE3LNX Vic 416-983-5831

For Sale Heath SB-301/401 SB 600
combo, all manuals, asking \$225.00
call VE3FHV Hank 416-985-9864

For Sale Motorola dropin charger, 15 vdc
@ 600 ma , asking \$35.00
call VE3PLM Peter 416-434-8222

For Sale Conway Cos 316 MK II scope,
best offer.
call VE3PLM Peter 416-434-8222

For Sale Astatic D-104 Mic, original, no
mods, asking \$50.00
call VE3PLM Peter 416-434-8222

For Sale MFJ Electronic Keyer model
1407B , asking \$80.00
call VE3PLM Peter 416-434-8222

For Sale Celluar phone by OKI, works
fine all inquiries welcome.
call VE3PLM Peter 416-434-8222

For Sale FT-101E 10/160 M.
transceiver, manual , asking \$450.00
call VE3LNX Vic 416-983-5831

For Sale Bird 43 wattmeter comes with (N) connectors \$170.00
call VE3LNX Vic 416-983-5831

For Sale 220 mhz transverter, 10 watts, 28 mhz-if, asking \$175.00
call VE3LNX Vic 416-983-5831

For Sale 432 mhz amplifier, single 4CX-250 tube, asking \$200.00
call VE3LNX Vic 416-983-5831

For Sale 220 mhz amplifier, single 4CX-250 tube, asking \$175.00
call VE3LNX Vic 416-983-5831

For Sale 432 mhz 31el yagies, H frame & all cables, asking \$300.00
call VE3LNX Vic 416-983-5831

For Sale Cushcraft A32-19 boomer SSB ant 2 M, asking \$90.00
call VE3LNX Vic 416-983-5831

For Sale 50 mhz Micro Wave Modules transverter, asking \$350.00
call VE3LNX Vic 416-983-5831

For Sale 220 mhz transverter, 20 watts, 144 mhz-IF, asking \$150.00
call VE3LNX Vic 416-983-5831

For Sale 220 Mhz 60 watt solid state amp, asking \$125.00
call VE3LNX Vic 416-983-5831

For Sale Large walnut desk, needs some work, asking \$100.00 or best offer
call VE3UIB Gord 416-433-7005

For Sale MFJ Versa Tuner II model 941-D, manual, asking \$115.00
call Walt VE3FJC 416-263-2338

For Sale Yaesu NC-7 drop in charger for FT 208-R, asking \$50.00
call Walt VE3FJC 416-263-2338

For Sale Hi-Gain Hi tower, on ground full documentation, asking \$200.00
call Victor VE3LNX 416-983-5831

For Sale Yaesu FT-101 ZD tranceiver manual, hand mic \$500.00
call Bill N4LEC 705-876-1820

For Sale K.W.E-ZEE Match ant tuner, 400 watts PEP, manual \$65.00
call Walt VE3FJC 416-263-2338

For Sale Cushcraft 220 mhz boomer ant asking \$100.00
call VE3LNX Vic 416-983-5831

For Sale Heath HD 1410 keyer and paddles, \$55.00
call VE3LNX Vic 416-983-5831

For Sale 6146 A or B tubes, some pulls some new all tested \$25.00 pair
call Vic VE3LNX 416-983-5831

For Sale 4CX250 B tubes all new, asking \$45.00 each or 3 for \$100.00
call Vic VE3LNX 416-983-5831

For Sale 2C39's, 7289's, 3CX100's new and pulls \$15.00 each or 4 for \$50.00
call Vic VE3LNX 416-983-5831