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-FEBRUARY 1990-
NORTH SHORE AMATEUR RADIO CLUB MONTHLY BULLETIN

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GET WELL CARDS	COLIN BELL	VE3 CEU	416-723-7842
2-METER NET CONTROL	ROY MILLER	VE3 AAF	416-852-5447
LIST AND LABELS	PAUL DALE	VE3 LHZ	416-434-6741
INSTRUCTION COORD.	RICK GIBSON	VE3 ASH	416-434-2886
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EDITORS	EDWIN H. TAYLOR	VE3 FRM	416-985-3790
	BARBARA ANN TAYLOR		

CLUB STATION..... VE3 NSR
 CLUB REPEATER..... VE3 OSH.. 147.720 MHZ IN ...147.120 MHZ OUT
 CLUB REPEATER..... VE3 NAA...448 MCS IN443MCS OUT

2-METER NET CONVENES EVERY THURSDAY AT 19:30 LOCAL TIME ON THE CLUB REPEATER (OSH). AS PART OF THE NET CODE PRACTICE IS PROVIDED BY BERNIE (ATI) BEGINNING AT 20:30 LOCAL.

10 METER NET _ A GROUP OF LOCAL HAMS MEET SUNDAY ON 28.200 MHZ USING CW FROM 09:00 TO 10:00 LOCAL THEN SWITCH TO SSB PHONE UNTIL EXHAUSTED OR XYLS CALL DINNER.

JOIN NOW !!!!

6

FULL MEMBERSHIP - \$15.00 Cdn. includes full voting privileges and monthly news bulletin for one calendar year (January to December, July and August excepted)

ASSOCIATE MEMBERSHIP - \$10.00 Cdn. includes bulletin only and a hearty welcome to any meetings you can get to either in person, over the land line, or on the air.

2ND FAMILY MEMBER - \$5.00 Cdn. full voting privileges but no monthly bulletin (assumed living in the same house)

TO JOIN SEND CHEQUE OR MONEY ORDER TO THE REGISTRAR AT HIS HOME:
 298 Dover Street, Oshawa Ontario L1G 6G6 (Preferrably)
 OR N.S.A.R.C. , The Club Box # 171 Oshawa, Ontario L1H 7L1.

Name:----- Call-----

Street & Number----- Apt:-----

Postal or Zip Code----- Telephone-----

Membership - Full----- Assoc----- Fam----- Fee-----

Donations for repeater fund (if you desire) Amount-----

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The following is a list of gear submitted by Walter VE3FJC, on behalf of the family of Albert Burr VE3PEK, SILENT KEY. If you are interested in any of the items please call Albert's son, John Burr after 5:00 pm at (416) 576-2892. All prices are firm.

The FT-757 gear should be purchased as a package.

Yaesu FT-757GX \$850.; Yaesu pwr sply \$200.;
Yaesu Automatic Antenna Tuner for FT-757, \$330.

Headfones (modern), \$20.; Hand-mike, \$20.;
Drake low-pass filter, 300 watt version, \$7.;
Yaesu FT-209RH walkie-talky, complete with wall charger, \$290.;
50 foot tower complete with mini-quad antenna and rotor, \$220.



GOSSIP COLUMN It would be nice if in the new year we could run a Gossip Column every month. I don't get enuff time to monitor the bands and glean bits of news about members at large. If you would like to do so, please get in touch with Ed. Taylor, 3FRM. A half to full page would be great!!!

Did You Know? When Anders Celsius first devised his metric temperature scale, it was upside down?? Yep, 0 degrees was the boiling point of water and 100 degrees was the freezing/melting point. Since Anders' divisions were too coarse to be of practical use, the Farenheit scale with 180 divisions between freezing and boiling was commonly used.

Missing Member! Yep, another missing member. Len McKay, SWL; 210 Thomas ST. Oshawa, had his newsletter returned to me marked, no longer at this address. If you know of Len's where-a-bouts, please inform Paul or Keith. Don't let him miss out on any more snooze letters!

NEXT MEETING Will be held at the usual spot, the Green Room of the Art Resource Center in Oshawa at 8:00 pm. No Smoking! They wanna keep it green! Greg informs me there will be a gentleman present to give us an informative talk on interfacing amateur radio with emergency services. Bring a friend!

Last Meeting The last meeting was well attended with 30 people braving the elements to see the Ontario Hydro film. This film was produced to enlighten us as to Ontario Hydro's capability in case of a nuclear accident. I am told it was very interesting and informative. I almost forgot! At the next meeting there will be some connectors and connector hardware available, free for the taking! These will be of interest to the computer buff.

PICKERING FLEA MARKET! We need volunteers! NSARC made a good showing last year but we can't rely on the same bunch of good guys every time, so how about filling out the attached form and mail it or bring it to the next meeting. Please give the club a hand. April 7th!!!!!!

"You can always tell when your on the road to success, it's uphill allthe way!"

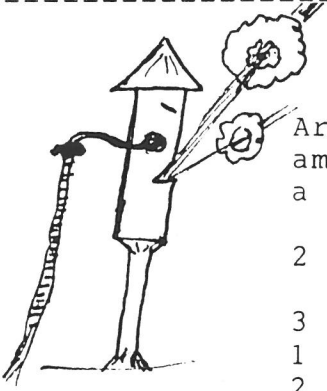
AUDITED FINANCIAL STATEMENT JAN. 1/89 to DEC. 31/89.

<u>INCOME</u>		<u>EXPENSE</u>	
Membership Dues	\$1458.26	Bulletin	\$1205.46
50/50 draw	\$ 108.00	Repeater	\$ 732.65
Rep Donations	\$ 128.54	Field Day	\$ 80.70
Crests	\$ 10.00	Corn Roast	\$ 185.71
Miscellaneous	\$ 406.06	Xmas Party	\$ 132.85
Flea Market	<u>\$3760.07</u>	Insurance	\$ 300.00
	\$5870.93	Room Rent	\$ 225.00
		CNE Project	\$ 100.00
		Miscellaneous	\$ 344.71
		Flea Market	<u>\$ 558.39</u>
			\$3865.47

Cash On Hand And In Bank - Jan1/89.		\$3355.06
Total Income To Dec.31/89.		<u>\$5870.93</u>
	Total	\$9225.99
Total Expenses To Dec.31/89.		<u>\$3865.47</u>
	Balance	\$5360.52

 The above is "System Confidential" and is distributed to the membership of NSARC only.

Contentment is not found in having everything, but in being satisfied with everything we have.



WHAT DO THOSE WHISTLE BLASTS MEAN?

Art Walker and Roy Miller, being railroad buffs will get amused with this bit of trivia. They probably could give a few more signals to add to this short list.

- 2 long, 1 short, 1 long: Warning when approaching a crossing.
- 3 shorts: Train backing up.
- 1 long: Train stopping.
- 2 long: Acknowledgement of a conductor's signal, and also that the train is about to move ahead.

THREE CHEERS for two of the clubs' unsung heroes.

Keith Wyard-Scott, 3GDF who works diligently gathering membership dues, updating membership records, running the monthly raffle and a pot porri of other tasks laid upon his shoulders.

Also to Paul Dale who labours over his computer keeping a membership record alive and providing the editor with updated labels for mailing the newsletter.

Paul has discovered some extra bits of memory available in his machine and can put it to good use for you. He requests that you send to him a list of the gear you are using. Transmitters, receivers, antennas, bands, etc. Paul's QTH is listed on the front page.



 You can't help a person uphill without getting closer to the top yourself!!!

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I have a question bank of over 700 questions which I use for homework for the ham class each week. As Ed is always looking for material for the bulletin I thought some of these may be of interest. I will put the answers on the back of the page so no peeking.

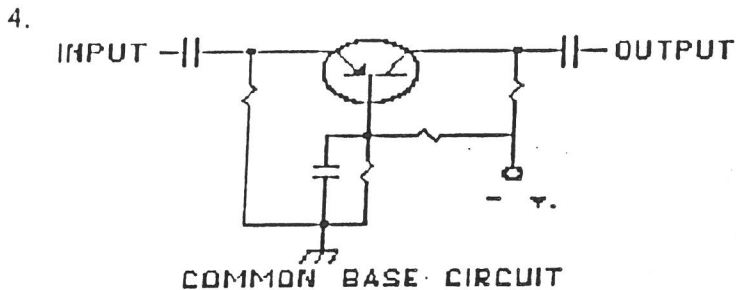
1. Two inductors one of 10 H. and one of 15 H. are connected in parallel what is the total inductance?
2. If the stabilizing resistor in the emitter circuit of a transistor is not bypassed the effective gain will be -----
3. What is a ground wave?
4. Draw a common base PNP basic transistor amplifier circuit.
5. What are zener diodes used for?
6. Why is a load resistor used in a common emitter amplifier?
7. What is dielectric constant and what is it compared with?
8. Convert 1327 milliamps to amps.
9. $R = 10$ ohms, $X_c = 56$ ohms, $X_l = 100$ ohms, find the impedance?
10. What is meant by the front end of a receiver?
11. An inductor has an inductance of 60 H. What is the inductive reactance at a frequency of 60 Hz.?
12. What is a low pass filter used for and where would it be connected?
13. What is the difference between an ion and an electron?
14. The voltage is 15 volts, current is 3 amps. what is the power dissipated?
15. Explain with the use of a diagram why it is possible to use HF frequencies for long distance communication.

If I get a positive response to this quiz I will consider trying to do it each month but no promises.

Rick Gibson VE3ASH

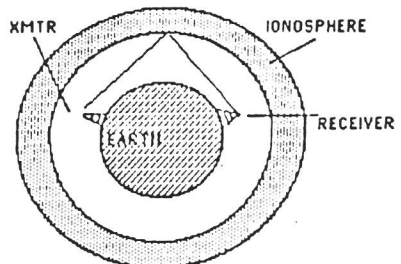
ANSWERS

- 1. Inductors in parallel, $1/\text{total} = 1/10 + 1/15 = 6 \text{ H}$.
- 2. The effective gain will be reduced.
- 3. A ground wave is an RF signal which travels along the ground to the receiver and is not reflected from the ionosphere



- 5. Zener diodes are used as voltage regulators in power supplies.
- 6. The output for the next stage is developed across this resistor.
- 7. The ratio of the value of a capacitor using a material as a dielectric compared to the same capacitor using air as the dielectric.
- 8. 1.327 amps.
- 9. $Z^2 = R^2 + (X_L - X_C)^2 = 100 + 1936 = 2036$
 $Z = 45.1 \text{ ohms}$.
- 10. The RF amplifier closest to the antenna.
- 11. $X_L = 6.28 \times f \times l = 6.28 \times 60 \times 60 = 22608 \text{ ohms}$.
- 12. A low pass filter is used to attenuate frequencies above its cutoff frequency and would normally be connected between your transmitter and it's antenna.
- 13. An ion is a charged atom. ie: It either has an extra electron or it is missing an electron. An electron is a negatively charged particle which orbits the nucleus in an atom.
- 14. $P = E \times I = 15 \times 3 = 45 \text{ watts}$.

15.



The transmitted signal travels in a straight line until it hits the ionosphere where it is bent back towards the earth and the receiving station.

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FLEA MARKET VOLUNTEERS

NAME: _____

ADDRESS: _____ PHONE: _____

I AM ABLE TO HELP:

- FRIDAY EVENING - SET UP
 - SATURDAY - OPERATION
 - SATURDAY P.M. - CLEAN UP
 - OTHER (please specify)
- _____
- _____
- _____

YES, I HAVE ACCESS TO A TRAILER OR TRUCK

NO, I DO NOT HAVE ACCESS TO A TRAILER OR TRUCK

Above is needed for moving tables to flea market Friday night and from flea market Saturday afternoon.