

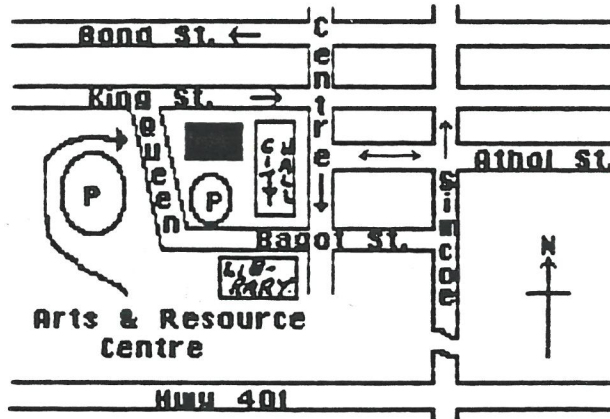
NORTH OSHAWA AMATEUR RADIO CLUB INC.

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

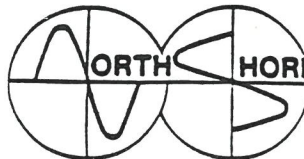


First Class Première classe

VE3CRK 88
Ralph Day
454 Holcan Ave
Oshawa Ont. L1G 5X6



**N.S.A.R.C. meeting at the
Arts & Resource Centre
2nd Monday of each Month
8:00 PM**



NORTH OSHAWA AMATEUR RADIO CLUB INC.

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

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ELECTED DIRECTORS

PRESIDENT	RALPH DAY	VE3 CRK	416-576-8738
SECRETARY	RAY ZAMBONELLI	VE3 OUB	416-723-2467
TREASURER	MIKE SHERBA	VE3 DKW	416-723-7674
PROGRAM DIRECTOR	JOE WHITE	VE3 IHS	416-623-4069
PAST/VICE PRESIDENT	RICK GIBSON	VE3 ASH	416-434-2886

NON-ELECTED OFFICERS (SUBJECT TO CHANGES)

REGISTRAR	KEITH WYARD-SCOTT	VE3 GDF	416-723-5758
SPECIAL EVENTS COORD.	RALPH DAY	VE3 CRK	416-576-8738
GET-WELL CARDS	COLIN BELL	VE3 GDF	416-723-7482
2-METER NET CONTROL	ROY MILLER	VE3 AAF	416-852-5447
MEMBERSHIP LIST & LABELS	PAUL DALE	VE3 LHZ	416-579-2877
INSTRUCTION COORD.	RICK GIBSON	VE3 ASH	416-434-2886
AUDITOR	HARRY WESTWOOD	VE3 QG	416-683-5104

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CLUB STATION.....VE3 NSR

CLUB REPEATER.....VE3 OSH 147.720 MHZ IN 147.120 MHZ OUT.

2-METER NET HOSTED BY ROY (AAF)(OR A STAND-IN)CONVENES EVERY THURSDAY AT 19:30 LOCAL TIME ON THE CLUBS REPEATER (OSH). AS PART OF THE NET, CODE PRACTICE IS PROVIDED BY BERNIE (ATI) BEGINNING AT 20:30 LOCAL.

10-METER NET (UNOFFICIAL)- A GROUP OF LOCAL HAMS MEET SUNDAYS ON 28.200 MHZ USING CW FROM 09:00 TO 10:00 LOCAL THEN SWITCH TO SSB PHONE UNTIL EXHAUSTED OR XYL'S CALL DINNER

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CONTRIBUTIONS TO NEWSLETTER

EDITORS-	KEITH WYARD-SCOTT	VE3 GDF	416-723-5758
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CONTRIBUTIONS MAY BE MAILED (ATTENTION THE EDITOR) TO THE N.S.A.R.C., BOX #171, OSHAWA, ONT., L1H 7L1 OR, IF URGENT, CBBL ONE OF THE EDITORS DIRECTLY.

NOTE!- OPINIONS EXPRESSED ARE THOSE OF THE WRITERS AND DO NOT, OF NECESSITY, REFLECT THOSE OF N.S.A.R.C. MEMBERS IN GENERAL. ARTICLES DEEMED TO BE DEFAMATORY WILL NOT BE ACCEPTED.

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NEXT MEETING - MONDAY, SEPT 12, 1988 AT 20:00 LOCAL (8:00 P.M.) IN THE GREEN ROOM OF THE ARTS RESOURCE CENTRE (BEHIND CITY HALL - CENTRE STREET SOUTH- SEE MAP ON PAGE 1)

PROGRAM-THIS MONTH THE MEETING WILL FEATURE A TALK WITH VISUAL AIDS, ON THE SUBJECT OF OLD (ANTIQUE?) AIRCRAFT AND THE TYPES OF RADIO USED IN THE OLD DAYS. THE SPEAKER WILL BE FORMER PRESIDENT OF THE ANTIQUE AIRCRAFT SOCIETY CHARLIE (EHA).

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HELLO AGAIN AND WELCOME BACK

I'M SURE I SPEAK FOR THE EXECUTIVE IN HOPING YOU HAD A FINE SUMMER AND ARE ANXIOUS TO GET TO REVIVING THOSE SCHEDULES THAT HAVE BEEN ALLOWED TO SLIP INTO THE BACK OF YOUR MINDS TO MAKE ROOM FOR GOLF, FISHING AND/OR TRAVEL.

THE 'SERMON-ON-THE-MOUNT' WENT OFF ON SCHEDULE BUT, SINCE YOURS TRULY EDITOR DID NOT ATTEND AND HAS NOT SPOKEN TO ANYONE WHO DID, I WILL LEAVE YOU TO GET YOUR OWN REPORT ON IT.

THE CORN ROAST, HOWEVER, IS ANOTHER MATTER AND I AM HAPPY TO TELL YOU THAT WE HAD A FINE TURN-OUT WITH ABOUT 71 IN ATTENDANCE. WE MISSED ERIC AND 'EGG NOG' (AS WELL AS THE GEESE) THIS YEAR BUT THE EVENING PROVED TO BE INTERESTING AS MIKE (DKW) BROUGHT HIS SMALL (8 INCH?) TELESCOPE ALONG AND WE ALL HAD A CHANCE TO SEE HOW MUCH GREEN CHEESE THE MICE HAD NIBBLED OUT OF THE MOON AND HOW SATURN IS HELD TOGETHER BY ITS RINGS. THE NIGHT WAS NOT ALTOGETHER CLEAR BUT THOSE OF US WHO HAD NEVER LOOKED THROUGH A LARGE TELESCOPE BEFORE WERE STILL IMPRESSED WITH WHAT WE SAW.

CLUB DAY AT THE CNE

BY THE TIME YOU READ THIS THIS EVENT WILL BE HISTORY BUT I AM WRITING THIS WHILE OUR BOYS ARE MANNING THE BOOTH. SINCE MY COMPUTER IS NOT AT THE CNE, YOU MAY SURMISE (WITH ABSOLUTE ACCURACY) THAT I AM NOT AMONG THOSE PARTICIPATING; HOWEVER, THERE ARE A FEW OF OUR MEMBERS WHO, THANK HEAVEN, DID NOT FORGET ABOUT IT, AND IF OUR EXPECTATIONS ARE MET, ARE RIGHT NOW IN THE EXHIBITION GROUNDS ANSWERING QUESTIONS AND ENCOURAGING PROSPECTIVE HAMS TO PREPARE TO TAKE UP THE HOBBY WHICH YOU HAVE FOUND SO ENGROSSING.

OUR THANKS GO TO RAY (OUB), RICK (ASH), BILL (MLW), JACK (SJ), GEORGE (INB), JOHN (POJ), ELMER (PXY), AND RALPH (CRK) FOR ABLY (I HOPE) REPRESENTING OUR CLUB ALTHOUGH MLW AND POJ ARE NOT CURRENTLY MEMBERS. IN ADDITION TO THESE FINE GENTLEMEN (NO DEROGATORY REMARKS PLEASE!), LARRY (FXQ) FROM TORONTO WILL BE IN ATTENDANCE.

HORSES FOR HANDICAPPED (RIDE-A-THON)

THE ANNUAL RIDE-A-THON WILL BE HELD ON SEPT. 17, 1988 STARTING FROM HOSKIN STABLES ON ROAD 57 JUST SOUTH OF SHIRLEY ROAD. SIMILAR TO THE OPERATION OF A WALK-A-THON, THIS EVENT REQUIRES RIDERS TO ACQUIRE SPONSORS TO PLEDGE DONATIONS TO 'DURHAM REGION HORSEBACK RIDING FOR THE HANDICAPPED'. THE RIDERS MUST SUPPLY THEIR OWN HORSE (HORSE RUSTLERS WILL BE PROSECUTED) AND THERE ARE TROPHIES TO BE WON AND CRESTS TO ALL RIDERS. IF YOU KNOW ANYONE WHO MIGHT BE INTERESTED IN RIDING OR PLEDGING, HAVE THEM CALL EITHER 986-5558 OR 571-3122.

IN CASE YOU ARE WONDERING WHY THIS IS OF INTEREST TO MEMBERS OF THE N.S.A.R.C., I WOULD REMIND YOU THAT SOME MEMBERS OF OUR CLUB MAN THE CHECK POINTS AND REPORT THE PASSING OF THE VARIOUS RIDERS VIA HAM RADIO ALLOWING THE EVENT TO RUN SMOOTHLY AND AFFORD A QUICK METHOD OF REPORTING ANY, GOD FORBID, ACCIDENTS. THE FOUR LOCAL HAMS USUALLY INVOLVED IN THIS EVENT ARE HUGH (EVJ), RAY (OUB), WALTER (DYE) AND RALPH (CRK) AND THEY ARE EXPECTED TO BE THERE AGAIN THIS YEAR. OUR THANKS AGAIN FELLOWS.

IN THE EVENT OF RAIN ON THE 17TH, THE RIDE-A-THON WILL TAKE PLACE ON THE FOLLOWING SATURDAY, THE 24TH.

HOME-OWNERS PRAYER (FROM THE PEEL A.R.C. BULLETIN)

STOP MY NEIGHBORS, OH LORD,
FROM BUYING THINGS I CAN'T AFFORD. (AMEN)

CONCERN OVER RADIO SIGNALS-BY VAL SEARS VIA THE TORONTO STAR

OTTAWA- THE GOVERNMENT IS MOVING TO CONTROL THE WILDLY EXPANDING ELECTROMAGNETIC WORLD OF GARAGE DOOR OPENERS AND CELLULAR TELEPHONES.

COMMUNICATIONS MINISTER FLORA MACDONALD HAS TABLED A NEW BILL- THE FIRST NEW RADIOCOMMUNICATIONS BILL SINCE 1938- TO PROTECT CONSUMERS FROM INTERFERING RADIO WAVES.

MALFUNCTIONS IN ELECTRONIC EQUIPMENT CAN SUDDENLY RAISE A RAILWAY CROSSING BARRIER, DISRUPT A HEART PACEMAKER, OR CREATE A SNOWSTORM ON YOUR TELEVISION SET.

IN FACT, MOST OF THE SIGNALS ARE LOW GRADE EMISSIONS FROM MICRO-CHIPS, AND THERE ARE FEW INSTANCES OF ACTUAL PROBLEMS, COMMUNICATIONS DEPARTMENT OFFICIALS SAID.

"BUT THERE ARE SO MANY EMITTING DEVICES AROUND," SAID ONE OFFICIAL. "THAT IT IS NECESSARY TO PROTECT CONSUMERS FROM INFERIOR EQUIPMENT."

HE ADDED THAT SUCH THINGS AS CELLULAR TELEPHONES MAY WORK FINE IN, SAY, TAIWAN, WHERE THERE IS A LOW-LEVEL ELECTROMAGNETIC ENVIRONMENT, BUT WOULD BE NO GOOD IN A CANADIAN CITY.

THERE ARE A FINITE NUMBER OF RADIO FREQUENCIES. THE BILL WILL GIVE THE GOVERNMENT POWER TO ASSIGN THEM TO THE MANY USES- INCLUDING PAGING TRANSMITTERS, MARINE AND AVIATION NAVIGATION, AIR TRAFFIC CONTROL SYSTEMS, WALKIE-TALKIES, POLICE RADIOS, AND FIRE, TAXI, AND AMBULANCE DISPATCHERS.

THE BILL PERMITS GOVERNMENT OFFICIALS TO SET TECHNICAL STANDARDS FOR MANUFACTURERS, IMPORTERS, AND DISTRIBUTORS, OF RADIO EQUIPMENT TO ENSURE CONSUMERS GET SAFE, TROUBLE-FREE GADGETS. THE GOVERNMENT WILL ALSO BE ABLE TO SET STANDARDS FOR ELECTRONICALLY CONTROLLED EQUIPMENT SO IT WON'T INTERFERE WITH RADIO EQUIPMENT.

FIELD DAY NON-REPORT

BECAUSE I SPENT A LITTLE TIME CONTACTING VARIOUS MEMBERS WHO HAD BEEN INVOLVED IN SETTING UP AND OPERATING OUR STATIONS, I AM GOING TO REPORT MY NON-FINDINGS. IT SEEMS THAT THE ONLY MEMBER WHO KEPT TRACK OF WHAT WAS ACHIEVED IS NOT AVAILABLE THIS WEEKEND SO, UNTIL JOE (IHS) IS AVAILABLE, THE INFORMATION IS SKETCHY TO SAY THE LEAST. IT APPEARS THAT THREE OF OUR MEMBERS RICK (ASH), GEORGE (INB), AND RALPH (CRK) SET UP AND OPERATED 75 PHONE AND 40 CW ALL NIGHT WITH OTHERS COMING IN DURING THE DAY TO SPELL THEM AND OPERATE A LITTLE 20 CW. AMONG THOSE WHO SHOWED UP WERE OLD STAND-BY'S JACK (SJ) AND JOE (IHS). A MORE-DETAILED REPORT MAYBE PRESENTED IN A LATER BULLETIN AND IF YOU CAN'T WAIT TO GET BROUGHT UP-TO-DATE, I SUGGEST YOU CONTACT JOE (IHS) IN PERSON. I HOPE YOU HAVE BETTER LUCK THAN I HAVE HAD. PERHAPS YOU CAN CORNER HIM AT THE SEPT. 12 MEETING.

BEST WISHES FOR A GOOD RECOVERY

TO BOB (LLZ) WHO RECENTLY UNDERWENT A KNEE OPERATION AND IS, ACCORDING TO RUMOR, HOME AND DOING WELL. KEEP IT UP, BOB. I'M REFERRING TO YOUR RECOVERY.

TO ROY (OHN) WHO, AFTER SPENDING AN EVENING WITH US AT THE CORN ROAST, WENT INTO HOSPITAL TO RECOVER. DON'T CONCERN YOURSELF, JOE; IT WASN'T THE CORN YOU COOKED. ROY, IT SEEMS, HAD A LITTLE MORE THAN INDIGESTION TO CONTEND WITH. IN HIS LATEST ADVENTURES IN HOSPITAL LAND, ROY FOUGHT A HEART ATTACK COMPLICATED BY A TOUCH OF PNEUMONIA (I HOPE I SPELLED IT CORRECTLY) AND CARDIAC ARREST BUT WHEN I TALKED TO HIM THIS EVENING (SEPT. 4) HE WAS AT HOME FOR THE NIGHT AND WAS TO GO BACK IN FOR MORE EVALUATION TOMORROW. HE WAS, AND I QUOTE, "FEELING QUITE GOOD BUT TIRED". LET'S HEAR LOTS MORE OF THAT TALK, ROY.

THANKS TO Y.R.A.R.C.'S SPLATTER FOR THE FOLLOWING.

SPLATTER

-3-

DECEMBER 1987

R A D I O ' S A N C E S T O R S**HEINRICH
HERTZ**

The starting gun in the race which culminated in the first successful demonstration of wireless telegraphy was fired in 1887 by a young German scientist, Heinrich Hertz.

At the age of 30, Hertz excited the whole scientific world by successfully measuring the speed and length of electromagnetic waves traveling through space. He left the way wide open for the development of wireless telegraphy - so wide open that Marconi was constantly amazed that apparently no-one got there ahead of him.

Hertz was born in Hamburg in February 1857. He was only 36 when he died in 1894, already regarded as one of the world's greatest scientists.

On leaving school he began to study engineering, but soon abandoned it for physics. He went to Berlin to study under the great physicist, Helmholtz.

His first post was at Kiel University, as a dollar-a-year man, or professor without salary. At Kiel he studied James Clerk Maxwell's electromagnetic theory, which led to the researches that later made him world famous.

In 1885 Hertz went to Karlsruhe as professor of physics at the Polytechnic Institute. Here he was happy; with an excellent library and facilities for research, he passionately pursued his studies. Here too he found a rich personal happiness through his marriage.

Until the middle of the 19th century electricity and magnetism were very inadequately explained by applying Newton's law of gravitation. Michael Faraday then questioned the assumption that space was void. he reasoned that since ether transmitted light waves, it was possible that electric and magnetic waves might also pass through space.

Faraday's ideas didn't meet with acceptance until another Englishman, James C. Maxwell, elaborated on them. In 1865, Maxwell published his Mathematical Theory of Light. This confirmed Faraday's belief in a relationship between electricity, magnetism and light. Concluding that the velocity of electromotion was the same as that of light, Maxwell decided that ether must be looked on as the conductor of electric motion and power. It was this assumption that Hertz set out to prove.

Two English scientists in the 1880's were busy with experiments trying to measure electric waves. But Hertz in Germany found the means to do this. He invented a 'detector' - an electrical circuit with an air gap, which produced visible sparks.

Finally in 1887, Hertz was ready to announce the results of his experiments to the world. He published a paper on "Very Rapid Electrical Oscillations", the first of a series which he wrote in the next two years, which proved conclusively that "electromagnetic actions are propagated with finite velocity through space." He had succeeded in determining the exact velocity of electricity, by multiplying the wave length by the duration of the vibration (corresponding to its

frequency); and he found, as Faraday and Maxwell had theorized, that it was the same as the velocity of light.

In 1889 Hertz went to nearby Heidelberg to give an account of his findings to a group of many of the foremost scientists of the day. As a result of the acclaim that his discoveries now brought him, he was sought after by many famous universities. But Hertz was a modest man who did not want glory and publicity, so he accepted a call from the University of Bonn, then a small town on the Rhine, where he felt he would be able to devote himself best to further study and research. But a painful nose infection struck him down soon after; and following a long illness he died on January 1, 1894.

Little seems to have been written about Heinrich Hertz himself: the importance of his discoveries seems to have overshadowed his personal life.

"His modesty was a most lovable quality in this great man" said Bonn University's Professor Ludwig at his funeral, "asserting itself not only in everyday life but in his scientific labours. It was coupled with the most considerate indulgence when judging others. At the same time he was governed by an inflexible veracity."

Another observer attributed Hertz' success to "his scientific use of the imagination."

S(ome) W(ant) A(11) P(eruse)

THIS IS YOUR SWAP, SELL OR BUY COLUMN --TO HAVE AN ARTICLE LISTED, JUST MAIL INFORMATION TO THE EDITOR OR PHONE IT IN (723-5758)

FOR SALE--NO NEW ITEMS

WANTED----NO NEW ITEMS

FUTURE MEETING SPECIAL FEATURES

OCTOBER 10,1988-TBA
NOVEMBER 14,1988-TBA
DECEMBER 12,1988-TBA

ANNUAL SANTA CLAUS PARADE

THIS ANNUAL EVENT WILL BE ON US ALL TOO SOON AND RALPH (CRK) AND RAY (OUB) ARE ALREADY THINKING ABOUT IT AND, I AM SURE, LOOKING FOR VOLUNTEERS AND/OR CONFIRMATION OF THE PARTICIPATION OF THOSE MEMBERS WHO HAVE SUPPORTED THEM IN THEIR PAST EFFORTS ON BEHALF OF THIS CLUB IN HELPING TO KEEP THIS WORTH-WHILE PROJECT GOING SMOOTHLY.

PERMANENT REMINDER

IF YOU ARE READING THIS NEWSLETTER OVER THE SHOULDER OF THE HAM WHOSE NAME APPEARS ON THE MAILING LABEL BECAUSE YOU FORGOT TO MAIL IN YOUR RENEWAL OR BECAUSE YOU HAVE NEVER BEEN A MEMBER OF OUR CLUB, NOW'S YOUR CHANCE! PLEASE, USE THE FORM AND INFORMATION BELOW TO JOIN US. (IF THE OWNER WON'T PART WITH IT, USE A FACSIMILE (OR SOMETHING SIMILAR).

HELD OVER BY POPULAR REQUEST AND OUR LOVE FOR YOU!!

FULL MEMBERSHIP-- \$15.00 CDN, (10.50 U.S.)-- INCLUDES FULL VOTING PRIVILEGES AND MONTHLY NEWS BULLETIN FOR ONE CALENDAR YEAR (JANUARY TO DECEMBER, JULY & AUGUST EXCEPTED)
ASSOCIATE MEMBERSHIP-- \$10.00 CDN (7.00 U.S.)--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 (3.50 U.S.)--FULL VOTING PRIVILEGES BUT NO MONTHLY BULLETIN (ASSUMED LIVING IN THE SAME HOUSE)

TO JOIN US, OR TO MAKE CHANGES TO MAILING ADDRESS, SIMPLY (YOU'RE A HAM AREN'T YOU?) FILL IN THE FOLLOWING FORM AND MAIL IT ALONG WITH THE APPROPRIATE FEE TO THE REGISTRAR OF THE N.S.A.R.C. AT HIS HOME ADDRESS (PREFERRABLY) 298 DOVER STREET, OSHAWA, ONTARIO, L1G 6G6 OR TO THE CLUB BOX #171, OSHAWA,ONTARIO, L1H 7L1.

NAME- CALL-
STREET & NO.- APMT-
CITY PROV. OR STATE-
POSTAL OR ZIP CODE- TELEPHONE-
MEMBERSHIP-FULL ASSOC FAM FEE
DONATIONS FOR REPEATER FUND (IF YOU DESIRE) AMOUNT