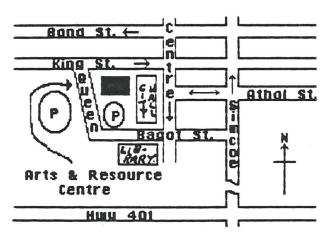


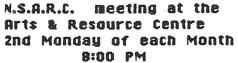
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WELCOME O SUCCESFUL ONES

CONGRATULATIONS ARE IN ORDER FOR SOME OF OUR MEMBERS WHO HAVE SUCCESSFULLY UPGRADED THEIR TICKETS TO 'ADVANCED' AND SOME WHO HAVE JUST RECEIVED THEIR FIRST TICKET AND WE ARE PROUD TO WELCOME THEM TO OUR FRATERNITY, AND TO THANK THEIR INSTRUCTORS FOR THE OPPORTUNITY TO DO SO.

SUCCESSFUL WERE: UP-GRADED: VE3 INB GEORGE BURNS VE3 HAB ALBRECHT MEINSHAUSEN FIRST TICKET: VE3 KBD KEITH DURLING VE3 GJS GREG SCHATZMANN VE3 RNB CLARENCE MOORE VE3 GFA GEORGE ADAMS VE3 MID JOE SILVA VE3 XXX GORDON LUND VE3 XXX STEVE KENYON

WHILE WE ARE HAPPY TO ANNOUNCE THE SUCCESS OF THE ABOVE CANDIDATES, WE WOULD LIKE TO OFFER ENCOURAGEMENT TO THOSE FEW WHO WROTE THE TESTS AND WERE VERY CLOSE AND, ALSO TO THOSE WHO, FOR ONE REASON OR ANOTHER, DID NOT FINISH THE COURSE. IT IS SOMETIMES, AS THE OLD SAYING GOES, DARKEST JUST BEFORE THE DAWN, AND, EVEN THOUGH RICK OFTEN SAID "IT'S MAGIC", THERE IS NO MAGIC REQUIRED IN LEARNING TO OPERATE, SO TRY AGAIN NEXT YEAR AND GOOD LUCK. REMEMBER, TWO OF OUR NEWLY LICENSED HAMS GOT THEIR TICKETS THE SECOND TIME.

INSTRUCTOR: VE3 ASH RICK GIBSON (ABLY ASSISTED BY VE3 NLR RUBY REESON, VE3 INB GEORGE BURNS, AND VE3 SJ JACK ELSTON)

CORRECTIONS	S AND ADDIT	IONS TO 1	MEMBERSHIP	LIST			
ADDRESS:							
VE3MDV	STAN HUGHES	5 16 WOO	DCRESCENT	BRADFORD	, ONT	Γ., Ι	L3Z 2G2
POSTAL CODE	:						
VE3QG	HARRY WEST	NOOD	LIT 2Y9				
TELEPHONE:							
	RICHARD BU	TTON	725-7150				
CALL SIGNS:							
	KEITH DURL						
	GREG SCHAT						
	CLARENCE MO						
	JOE SILVA						
	GEORGE ADA	AS	VE3GFA				
ADDITIONS:							
				BRADFORD			
VE3FRM ED 1	AYLOR	BOX 103	1	PT. PERRY	LØB	1 NØ	985-3730
				OSHAWA			
	DOTY			ORONO			983-5831
				UNIONVILLE	L3R	8H5	294-6108
	DY WILLIAMS						-
				LINDSAY			
VE3EIS LORN	NE MALLORY	BOX 1384	4	PT. PERRY	LØB	INØ	985-8935

CQ TOO- CQ TOO- CQ TOO!!!

MANY YEARS AGO, I STOOD AT THE ENTRANCE OF A TENT PITCHED SOMEWHERE IN THE VICINITY OF KENDAL, POSSIBLY ERIC'S OTH, AND HEARD A YOUNG FELLOW NAMED MIKE SHERBA (DKW) UTTER THE ABOVE. HE WAS, OF COURSE, CALLING CO2 IN THE 2-METER SECTION OF OUR FIELD DAY EFFORTS FOR THAT YEAR; MY CALL ABOVE IS IN THE CAUSE OF OUR 1988 EFFORTS TO RE-ESTABLISH FIELD DAY AS THE MOST EXCITING EVENT OF THE YEAR FOR THE CLUB. MOST OF THE OPERAFORS OF THAT DAY HAVE BECOME APATHETIC TO FIELD DAYS, SOME HAVE MOVED ON, AND A SMALL GROUP HAVE PASSED ON AND THOSE FEW HAVE A LIGITIMATE EXCUSE FOR BEING 'SILENT KEYS'.

FIELD DAY, WHICH MANY OF YOU CONSIDERED A FUN DAY, IS AN IDEAL WAY FOR OLDER (NOT ELDERLY) HAMS TO ASSIST THE NEWER AMATEURS (THOSE WITH LICENSES BUT LACKING IN EXPERIENCE) TO GET STARTED IN THEIR "HOW TO OVERCOME LESS-THAN-IDEAL CONDITIONS' SECTION OF THEIR TRAINING TO BECOME AN OPERATOR THAT EVERYONE WILL WANT COME BACK TO.

IT IS NOT ONLY IN THE OPERATING END OF THINGS THAT IMPROVES THROUGH FIELD DAY, YOUR PAST EXPERIENCES CAN ALSO BE A VERY BIG HELP IN AVOIDING SOME OF THE DISAPPOINTMENT WHICH MIGHT COME FROM SETTING THE ANTENNA UP IN THE WRONG SPOT OR DIRECTION. MANY OF US ARE,OF COURSE, BEYOND THE HEAVY WORK OF RAISING TOWERS, ETC. BUT WE CAN STILL HELP LIGHTEN THE LOAD WITH FRIENDLY COMPANY AND ENCOURAGEMENT. LET'S ALL TRY TO DO WHAT WE CAN AND SHOW JOE AND THE OPERATORS THAT THE ARE INDEED PART OF A CLUB WITH OVER A HUNDRED MEMBERS.

I EXPECT THAT JOE WILL BE CONTACTING SOME OF YOU PERSONALLY BUT IT WOULD SAVE HIM TIME IF ENOUGH PEOPLE CONTACTED HIM BEFORE OR AT THE NEXT MEETING (MAY 9) AND OFFERED THEIR SERVICES.

SURCERY INDICATED IN MARCH BULLETIN EXPLAINED

MANY OF YOU HAVE CALLED ME TO ASK HOW I MANAGED TO HAVE MARCONI REPEAT SO MANY THINGS IN THE YEAR 1987 THAT HE HAD ALREADY MADE HISTORY WITH IN 1897; IT IS NOT NORMALLY ONE OF MY FAULTS BUT I GUESS THAT, ON THE DAY THAT I TYPED THAT PARTICULAR PIECE, MY THIRD FINGER DIDN'T KNOW WHAT MY FOURTH FINGER WAS DOING. FOR THOSE OF YOU WHO ARE STILL APREHENSIVE, PLEASE REST ASSURED THAT MARCONI IS, UNFORTUNATELY, DEAD AND CANNOT BE RESURRECTED THROUGH ANY MISTAKE OF MINE.

SIGNS OF THE TIMES

I HAVE NOTICED WHILE DRIVING AROUND TOWN THAT ONE OF THE CHURCHES HAS A PORTABLE SIGN ON THEIR LAWN WHICH THEY CHANGE ABOUT TWICE A WEEK. SOME OF THEM ARE VERY GOOD AND I'LL RELATE A COUPLE OF THEM TO FILL THE REST OF THIS PAGE.

'BATTLING TO THE TOP MAY LEAD TO BOTTLING TO THE BOTTOM.'

 TRYING TO CHANGE THE WORLD? TRY TALKING TO THE MAN IN THE MIRROR.

ANOTHER SOURCE OF HUMOUROUS QUOTES IS THE BULLETINS OF OTHER CLUBS AND, JUST THIS MORNING, WHILE FORAGING FOR USEABLE MATERIAL, I CAME ACROSS A 'CONFUCIOUS QUOTE' BUT, FOR THE LIFE OF ME, I CAN'T FIND IT AGAIN TO CREDIT THE PROPER BULLETIN. HOWEVER, I REMEMBER THE QUOTE SO HERE IT IS!

CONFUCIUS SAID- SOLUTION TO PROBLEM IS LIKE A BABY--EASY TO CONCEIVE BUT HARD TO DELIVER.

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PROPOSED CHANGES TO LICENSE REQUIREMENTS

THE FOLLOWING IS AN OUTLINE OF THE CHANGES BEING PROPOSED TO THE GENERAL RADIO REGULATIONS PART II (GRRII) AND THE RADIO OPERATOR'S CERTIFICATE REGULATIONS (ROCR) TO PROVIDE FOR THE NEW AMATEUR OPERATOR CERTIFICATES.

THE DEPARTMENT IS PROPOSING A NEW CERTIFICATE STRUCTURE WHICH IS SIMILAR TO THAT USED BY MANY OTHER NATIONS. THE NEW STRUCTURE WILL ENABLE PROSPECTIVE AMATEURS TO:

- A. BECOME CERTIFIED WITHOUT HAVING TO TAKE A MORSE CODE EXAMINATION.
- B. ENJOY EASIER ACCESS TO THE HIGH FREQUENCY BANDS WITH TWO LEVELS MORSE CODE CERTIFICATION.
- C. DEMONSTRATE SUFFICIENT KNOWLEDGE OF TECHNICAL MATTERS FOR THE INSTALLATION OF A MODERN AMATEUR RADIO STATION AND A HIGH LEVEL KNOWLEDGE OF OPERATING PROCEDURES, AND
- D. DEMONSTRATE A HIGHER LEVEL OF TECHNICAL KNOWLEDGE IN ORDER TO BUILD THEIR OWN TRANSMITTING EQUIPMENT AND OPERATE WITHM HIGHER POWER (1000 WATTS)

THE AMATEUR CERTIFICATION STRUCTURE WILL PROVIDE FOR FOUR CERTIFICATES; THE AMATEUR RADIO OPERATOR'S BASIC CERTIFICATE, THE AMATEUR RADIO OPERATOR'S MORSE CODE CERTIFICATE (5 WORDS PER MINUTE), THE AMATEUR RADIO OPERATOR'S MORSE CODE CERTIFICATE (12 WORDS PER MINUTE), AND THE AMATEUR RADIO OPERATOR'S TECHNICAL CERTIFICATE. THESE CERTIFICATES WILL BE REFERRED TO IN THIS DOCUMENT AS 'BASIC', '5 W.P.M.', '12 W.P.M.', AND 'TECHNICAL CERTIFICATE' RESPECTIVELY.

AN OUTLINE OF THE VARIOUS EXAMINATION REQUIREMENTS ARE AS FOLLOWS:

- A. THE 'BASIC CERTIFICATE' -KNOWLEDGE OF INTERNATIONAL AND DOMESTIC REGULATIONS; KNOWLEDGE OF PROCEDURES FOR VARIOUS MODES OF OPERATION (VOICE, MORSE CODE, PACKET, REPEATER, SLOW SCAN AND FAST SCAN TELEVISION, SATELLITES.ETC.Z); KNOWLEDGE OF STATION ASSEMBLY INCLUDING BASIC ELECTRICITY, GROUNDING, METERS ANTENNAS, TRANSMISSION LINES, AND PROPAGATION; KNOWLEDGE OF INTERFERENCE DETECTION AND MITIGATION TECHNIQUES INCLUDING FRONT-END OVERLOAD AND AUDIO RECTIFICATION.
- B. THE '5 W.P.M. CERTIFICATE' -ABILITY TO SEND AND RECEIVE AT A SPEED OF 25 CHARACTERS PER MINUTE IN THE INTERNATIONAL MORSE CODE, INCLUDING LETTERS, NUMBERS, BASIC PUNCTUATION, AND Q SIGNALS.
- C. THE '12 W.P.M. CERTIFICATE' -THE ABILITY TO SEND AND RECEIVE AT A SPEED OF 60 CHARACTERS PER MINUTE IN THE INTERNATIONAL MORSE CODE, INCLUDING LETTERS, NUMBERS, BASIC PUNCTUATION, AND Q SIGNALS.
- D. THE 'TECHNICAL CERTIFICATE' -KNOWLEDGE OF ADVANCED ELECTRONIC THEORY COVERING TRANSMITTERS, RECEIVERS, AND AMPLIFIERS; KNOWLEDGE OF CONSTRUCTION PRACTICES; ABILITY TO READ SCHEMATIC DIAGRAMS, AND LOCATE FAULTS.

AN INDIVIDUAL MUST HOLD THE "BASIC CERTIFICATE" TO BE ELIGIBLE TO OBTAIN AN AMATEUR STATION LICENSE; THE OTHER THREE CERTIFICATES WILL PROVIDE ADDITIONAL PRIVILEGES. THE STRUCTURE IS DESIGNED FOR MAXIMUM FLEXIBILITY BY PERMITTING ANY OR ALL EXAMINATIONS TO BE WRITTEN AT ANY TIME. PROPOSED CHANGES (CONT-D)

THE PRIVELEGES AND RESTRICTIONS OF THESE CERTIFICATES ARE AS FOLLOWS:

- A. THE 'BASIC CERTIFICATE'-
 - 1. OPERATION ON ALL FREQUENCIES AND EMISSIONS ABOVE 30 MHZ.
 - 2. MAXIMUM PERMISSIBLE TRANSMITTER INPUT POWER OF 250 WATTS DC.
 - 3. TRANSMITTERS MUST BE OF COMMERCIAL DESIGN AND MARKETED AS AMATEUR RADIO EQUIPMENT (ALL OTHER EQUIPMENT IN THE STATION MAY BE HOME-BUILT).
- B. THE '5 W.P.M. CERTIFICATE'-FULL PRIVILEGES IN THE 3.5 TO 4.0 MHZ AMATEUR BAND.
- C. THE '12 W.P.M. CERTIFICATE'- FULL PRIVELEGES IN ALL AMATEUR BANDS BELOW 30 MHZ.
- D. THE 'TECHNICAL CERTIFICATE'-
 - 1. ALL STATION EQUIPMENT MAY BE HOME BUILT
 - 2. MAXIMUM TRANSMITTER INPUT POWER OF 1000 WATTS D.C.

EXISTING AMATEURS WHO HOLD THE AMATEUR RADIO OERATOR'S CERTIFICATE OR THE AMATEUR RADIO OPERATOR'S ADVANCED CERTIFICATE WILL BE DEEMED, BY REGULATION, TO HOLD THE BASIC, 12 W.P.M., AND THE TECHNICAL CERTIFICATES. THOSE WHO HOLD THE AMATEUR DIGITAL RADIO OPERATOR'S CERTIFICATE WILL BE DEEMED, ALSO BY REGULATION, TO HOLD THE BASIC AND TECHNICAL CERTIFICATES.

EXPERIENCING INTERFERENCE

EXPERIENCING INTERLERCE

THE FOLLOWING LIST INDICATES THAT ELE	CTRONIC DEVICES WH	HICH ARE
SUSCEPTIBLE TO INTERFERENCE ARE ALSO OFTEN		
DEVICE	SUSCEPTIBLE	SOURCE
FURNACES, AIR CONDITIONERS		i
FURNACES, AIR CONDITIONERS (CONTROLLERS)	13	
MICROWAVE OVENS		2
SMALL HOME APPLIANCES		3
DOOR BELL TRANSFORMERS		4
PORTABLE TELEPHONES		5 6 7
COMPUTERS	9	6
TV SETS	1	
TV CAMERAS (HOME, INDUST., BROADCAST)	15	15
INTERCOMS (WIRED AND WIRELESS)	8	8
GARAGE DOOR OPENERS	1Ø	10
ALARM SYSTEMS	11	11
TELEPHONES	12	12
AUTOMOTIVE DEVICES	14	14
SWITCHBOARDS	16	16
CATV SYSTEMS		17
MATV SYSTEMS	4	
CABLE TV SYSTEMS	3	
AMATEUR RADIO	22	18
CB RADIOS		19
AM, FM, TV STATIONS	20	20
2-WAY & PAGER SYSTEMS	21	21
MEDICAL & SCIENTIFIC EQUIPMENT	19	22
PACEMAKERS	18	
RADIO CONTROL DEVICES	17	
REMOTE CONTROL CARRIER CURRENT DEVICES		23
VTR RECORDERS	2	
BROADCAST RADIOS	5	e.
AUDIO SYSTEMS	6	
(NUMBERS INDICATE ORDER ON 2 LISTS-SIGNIFIC	CANCE UNEXPLAINED-	-EDITOR)

REPRODUCED N.S.A.R.C SPLATTER

THOMAS A. EDISON

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By David Adams VE3 HBF

Edison had only 3 months of formal schooling, yet he became an outstanding scientist and inventor with over 1000 patents in his name. His best known inventions were the carbon filament incandescent electric lamp and the phonograph. After Bell's invention of the telephone, Edison produced a carbon transmitter which greatly improved the telephone's audibility and became the basis for the microphone for radio telephony and broadcasting.

Edison's first patented invention, when he was 21, was the Electrical Vote Recorder. He demonstrated it in Washington, but the politicians turned it down; they felt it would cut down their ability to manoeuvre and filibuster. From then on Edison turned his inventive genius to developing things that he believed had practical commercial possibilities. When Western Union's first crude stock ticker broke down, he developed the Edison Universal Stock Printer, which brought the impecunious 22-yearold a sudden fortune of \$40,000. With this money he set up a manufacturing plant turning out these machines and high speed telegraph printers.

In 1876 he moved to Menlo Park, NJ, and set up the world's first industrial research laboratory, which he equipped as an "invention factory". He promised to produce a minor invention every 10 days, and a "big trick" every six months.

As a boy Al - as Edison was known to friends - had been inspired by Thomas Paine's "Age of Reason " and his declaration that "The world is my country: to do good my religion". Later his imagination was fired by Michael Faraday, a self-taught genius like himself, and he emulated the British scientist by also keeping



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detailed notebooks of all his researches.

Over many years Edison searched for a non-acid storage battery that would be an improvement over Lord Kelvin's lead and acid type. His eventual solution was the nickel-alkaline battery.

In 1887 Edison was experimenting with moving pictures. The Eastman Kodak Co. came up with the first continuous-film negative, and this gave Edison his solution: the Edison Kinetoscope made it possible to project moving pictures onto a screen -and the movies were born.

In 1875 Edison discovered "etheric force" when he observed sparks arcing between two points. He did not understand at the time that this was "wireless transmission". But it launched him on research into wireless telegraphy from moving trains - the signals passing from metal plates on the car roof to telegraph wires above. Later he transmitted signals between kites 2-1/2 miles apart. He sold his one and only patent on long distance wireless telegraphy to his friend Marconi.

Boyhood & Early Days:

'Al' Edison had only 3 months of formal schooling, when he was expelled from school as 'retarded'. For 3 years his mother taught him, instilling in him a love of learning. He had vast curiosity and a keen thirst for experiment. He taught himself Morse code and became a railroad telegrapher at 16 first in Stratford, Ontario. He was unruly and was fired often, going from place to place as a 'tramp telegrapher'; but he read all the scientific books and journals he could lay his hands on.

MAY, 1988

MARCH 1988

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In 1868 he landed a job with Western Union in Boston, where despite his unkempt appearance he proved himself a crack operator and a skilled repairer and improver of faulty equipment. He devised many tricks to help his morse speed, like writing so small that a magnifier was needed to read it.

Many fulsome tributes have been paid to Edison. Arthur Palmer wrote: "He has led no armies into battle - he has conquered no countries - he has enslaved no peoples yet he wields a power the magnitude of which no warrior ever dreamed...This democratic, kindly modest being has bestowed upon the human race blessings instead of bondage, service instead of serfdom, construction instead of conquest...He is humanity's friend."

A recent biographer, Robert Conot, after extensive research for his book " Edison: A Streak of Luck" paints a rather different pic-ture: "The Edison I discovered was a lusty, crusty, hard driving and occasionally ruthless midwesterner, whose Bunyanesque ambition for wealth was repeatedly subverted by his passion for invention. He was complex and contradictory, an ingenious electrician, chemist and promoter, but a bumbling engineer and businessman. The stories of his inventions emerge out of the laboratory records as sagas of audacity, perspicacity and luck, bearing only a general resemblance to the legendary accounts of the past."

N.S.A.K.C.	PAGE 8	MAY. 1988
S(ome) W(ant) A(ll) P(eruse)		
THIS IS YOUR SWAP, SELL JUST MAIL INFORMATION TO THE	OR BUY COLUMNTO HA EDITOR OR PHONE IT IN	VE AN ARTICLE LISTED, (723-5758)
FOR SALENO NEW ITEMS		
WANTEDNO NEW ITEMS		
NEXT MEETING		. 20 20 20 20 20 20 20 20 20 20 20 20 20 2
THE PROGRAM FOR THE JUN SO YOU WILL HAVE TO WAT		IN
TNX DE VE3NLR (RUBY)		
TO: MEMBERS OF THE 1987-88 C THANK YOU FOR YOUR CA PLEASANT SURPRISE AND GRATEF	RD, GIFT, AND THOUGHTF ULLY APPRECIATED 73, RUBY VE3NLR	
(RUBY WAS NOT PRESENT TO REC OCCASION OF THE TESTSIT WA		
PERMANENT REMINDER		
IF YOU ARE READING THIS WHOSE NAME APPEARS ON THE MA YOUR RENEWAL OR BECAUSE YOU YOUR CHANCE! PLEASE, USE THE THE OWNER WON'T PART WITH IT	ILING LABEL BECAUSE YO HAVE NEVER BEEN A MEMB FORM AND INFORMATION	U FORGOT TO MAIL IN ER OF OUR CLUB, NOW'S BELOW TO JOIN US. (IF
HELD OVER BY POPULAR REQUEST	AND OUR LOVE FOR YOU!	!
YEAR (JANU ASSOCIATE MEMBERSHIP \$10.0 AND A HEAR	AND MONTHLY NEWS BULL ARY TO DECEMBER, JULY	ETIN FOR ONE CALENDAR & AUGUST EXCEPTED) LUDES BULLETIN ONLY INGS YOU CAN GET TO
2ND FAMILY MEMBER\$5.00 CDN	(3.50 U.S.) FULL VOT LLETIN (ASSUMED LIVING CHANGES TO MAILING ADD HE FOLLOWING FORM AND EGISTRAR OF THE N.S.A. VER STREET, OSHAWA, ON	ING PRIVILEGES BUT NO IN THE SAME HOUSE) RESS, SIMPLY (YOU'RE MAIL IT ALONG WITH R.C. AT HIS HOME
NAME	CALL-	
STREET & NO		APMT-
CITY	PROV. OR STATE-	
CITY POSTAL OR ZIP CODE-	TELEPHONE-	
MEMBERSHIP-FULL ASSO	CFAM	FEE
DONATIONS FOR REPEATER FUND	(IF YOU DESIRE)AM	OUNT
