

THE HAMILTON AMATEUR

HAMILTON AMATEUR RADIO CLUB INC.
P.O. BOX 253
HAMILTON, ONTARIO
L8N 3T8

BURLINGTON ONTARIO
**FIRST
CLASS**



*Gerald Goldberg VE3HLI
17 Cottrell st.
Hamilton, Ontario
L8S3L5*

April



HAMILTON AMATEUR RADIO CLUB INC.

CLUB STATION...VE3DC....VE3RCB---REPEATER...VE3DRW

INPUT....146.160 MHZ
OUTPUT...146.760 MHZ

1975 OFFICERS and DIRECTORS

<u>PRESIDENT</u>	Wm. R. McCASLIN VE3ARX	704 CEDAR AVE. BURLINGTON , L7T 2R7	634-5190
<u>1st VICE-PRESIDENT</u>	JOHN DYKSTRA VE3BOY	TALBOT ST. CAYUGA ,	772-5372
<u>2nd VICE-PRESIDENT</u>	DAVE. E. WALTON VE3FLZ	421 LODOR ST. ANCASTER , L9G 2Z9	648-6872
<u>PAST PRESIDENT</u>	GLEN A. SIMPSON VE3DSP	61 BRIARWOOD CRES. HAMILTON , L9C 4C3	385-8478
<u>SECRETARY</u>	PETE. C. WALTON VE3FEZ	421 LODOR ST. ANCASTER , L9G 2Z9	648-6872
<u>TREASURER</u>	GERALD CRAWSHAW	176 WEST 35th ST. HAMILTON , L9C 5K8	385-2789
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<u>ASSISTANT EDITOR</u>	MAX. PIZZOLATO VE3DNM	65 ELGAR ST. HAMILTON , L9C 4E4	385-2530

COMMITTEE CHAIRMEN

Club Station Licencee(VE3DC)	VE3BKM	VERN. HUCKLE	388-6989
RED CROSS STATION LICENCEE (VE3RCB)	VE3FHQ	GLENN A. GIBSON	385-2786
REPEATER LICENCEE (VE3DRW)	VE3CFM	BOB. MILLER	529-2950
REPEATER TECHNICAL	VE3FHB	KEN. CHRISTMAS	383-5666
REFRESHMENTS	VE3DNM	MAX. PIZZOLATO	385-2530
MEMBERSHIP		GERALD CRAWSHAW	385-2789
HEALTH & WELFARE	VE3GFE	STAN. BOLIBRUCH	528-4002
PHOTOGRAPHER	VE3FLZ	DAVE. WALTON	648-6872
PUBLICITY & ADVERTISING	VE3DOU	PETER GOODSON	561-1659
PUBLIC SERVICE	VE3FHQ	GLENN A. GIBSON	385-2786
PROGRAM	VE3FLZ	DAVE. E. WALTON	648-6872
TECHNICAL	VE3DVV	JOHN VANDENBURG	692-3221

MEMBERSHIP YEARJANUARY 1st to the following DECEMBER 31st

MEMBERSHIP FEES.....\$6.00 per year (all classifications)

PLEASE ADDRESS ALL CORESPONDENCE TO THE SECRETARY AT - P.O. BOX 253, HAMILTON. L8N 3T8

THE PRESIDENT'S MESSAGE

"Welcome to the Club!" Without members a club cannot operate; and it is gratifying to your Executive and Treasurer to see so many of you supporting our principles, in renewing your membership.

As I contemplate club activities, and ponder what it is that brings us together once a month, I come to the realization that it is mainly built on fellowship and concern for one another. I get a good feeling when I recall the concern of the club and effort put forth by the "Ad Hoc" T.V.C. committee to help a fellow ham, I wish I could get back on the air.

APRIL 1975 MEETING

I see the same spirit at work at the club station under the direction of your Uncle VERN and members of T.V.C. technical committee who are working to establish a first class workshop and should the need arise.

#####

PROGRAM
DATE.....Wednesday April 16, 1975
TIME.....8:00 PM

PLACE.....The Brow Infirmary, Chedoke Hospital.

BUSINESS.....Some

SPEAKER.....Les Smith - About crystals

SURPRISES....Door Prizes

REFRESHMENTS....COFFEE AND SINKERS

#####

It was fellow members of the
Burlington Amateur Radio Club () to our aid when we sponsored the most successful R.S.O. Convention to date. It will be fellowship and concern that will move members of R.S.O. to aid R.S.O. this summer as they sponsor the Ontario Amateur Hamfest..... JULY 12th, and 13th, 1975.

Yes, grass those hands extended across the bay, and let us in so doing, take a big step forward in the promotion of Amateur Radio.

Sincerely,

William R. McCaslin
President, R.S.O.

THE PRESIDENT'S PAGE

"Welcome to the Club!"...Without members a club cannot operate; and it was gratifying to your Executive and Treasurer, to see so many of you supporting our principles, in renewing your membership.

As I contemplate club activities, and ponder what it is that brings us together once a month, I come to the realization that it mainly boils down to fellowship and concern for one another. I get a good feeling when I recall the concern of the club and effort put forth by the "Ad Hoc" T.V.I. committee to help a fellow ham, Irwin Merritt 'AHB get back on the air.

I see the same spirit at work at the club station VE3DC under the direction of Vern Huckle VE3BKM and members of H.A.R.C. technical committee who are working to establish a first class workshop and equipment loan service to members of H.A.R.C. should the need arise.

It is concern that produces the "Quiet Corner" in the hope that each family will draw closer and experience the blessings of God upon their lives, as they rely upon Biblical truths...principles, if lived by all, would mean the end of all wars and sufferings under which the world to-day is reeling....with little hope in the future.

It is dedication and concern that produces the Q.S.T. magazine, and all the helpful manuals put out by A.R.R.L. at astonishing low prices to promote amateur radio.

Yes, we have a lot for which to be thankful in this day of change! There has been much good wrought by the R.S.O. and now the stepped up emphasis of C.A.R.F. would appear to have good aims and objectives. These are not in competition with A.R.R.L. but are supplementary to it. Support them, yes! But above all, keep your membership in the mother of them all A.R.R.L. which represents hams everywhere, irregardless of country, boundaries, and whose strength in holding and preserving the amateur airways, is our greatest asset.

It was fellowship and concern that brought members of the Burlington Amateur Radio Club (B.A.R.C.) to our aid when we sponsored the most successful R.S.O. Convention to date. It will be fellowship and concern that will move members of H.A.R.C. to aid B.A.R.C. this summer as they sponsor the Ontario Amateur HAMFESTJuly 11th, 12th, and 13th, 1975.

Yes, grasp those hands extended across the Bay, and let us in so doing, take a big step forward in the promotion of Amateur Radio.

Sincerely,

William R. McCaslin VE3ARX
President H.A.R.C.

WHATS NEW

A new publication is available from the ARRL in the form of a book called Specialized Communication Techniques For The Radio Amateur. This new book has seven chapters dealing with everything from RTTY to Fast Scan T.V. It also covers satellites and special space communications. This book could introduce you to a complete new world of amateur radio for the mere price of \$3.00.

The F.C.C. in the United States have announced that the cost of amateur radio tickets will be reduced from \$9.00 to \$4.00 effective March 1. The D.O.C. in Canada have announced that Canadian Fees will be increased from \$10.00 to \$13.00. Wonder what happened to us?

We also have news that the exam for the amateur license has been changed. They are now using multiple choice answer type questions, also antenna calculations must be done in metric. Anyone contemplating taking the exam in the near future should contact the D.O.C. regarding these changes.

CARF is holding an executive meeting to review re structuring the constitution. It is probable that direct membership will become available and CARF will work directly with clubs rather than with the existing associated membership status.

Seven students from the general class have taken the license test as of April 8, at press time the results were not available but we look forward to hearing some new call signs in the near future.

If you didn't get your ticket first try, don't worry, an extension class has been arranged starting April 7, at Sherwood Heights High School Code practise will be at 10 to 13 WPM for details contact Glen Simpson VE3DSP - 385 8478.

WWV, The time and Frequency Division of the National Bureau of Standards is proposing the reduction of hours and the elimination of some frequencies on which WWV operates. They are also thinking of a 50 percent power reduction for WWV. These proposed changes are in response to a government wide effort to reduce operating expenses and to conserve energy. The National Bureau of Standards would appreciate comments from interested users of the station. They have prepared a questionnaire that they would like you to fill out and return to them. It can be obtained by writing to: Time and Frequency Division, National Bureau of Standards, Boulder, Colorado, 80302.

There are Three Hamfests coming up in the near future that you may enjoy attending. The Dayton, Ohio Hamfest is the really big one and it is being held April 25, 26, 27. This is the largest Hamfest in the U.S. and information can be obtained by writing to Hamvention, P.O. Box 44, Dayton, Ohio 45401

Cont'd.

About a two and a half hour drive from here is the Rochester New York Hamfest. It will be held May 31 and will have a large flea market and all kinds of commercial displays. For complete information on this one write to WNY Hamfest, P.O. Box 1388, Rochester, New York 14603.

Lets not forget about the really important one The Ontario Hamfest. It will be held the weekend of July 11. Dave Walton VE3FLZ will have information bulletins and pre-registration forms available at the next club meeting.

Want to add offset tuning to your HW101, see the March issue of QST for some really interesting modification information.

Our bulletin editor Bob Clarke VE3ANW also known as the ROOT BEER man has recently moved from Smog filled Hamilton to Beautiful downtown Ancaster. Looks like I finally have someone close by that can be blamed for my TVI trouble.

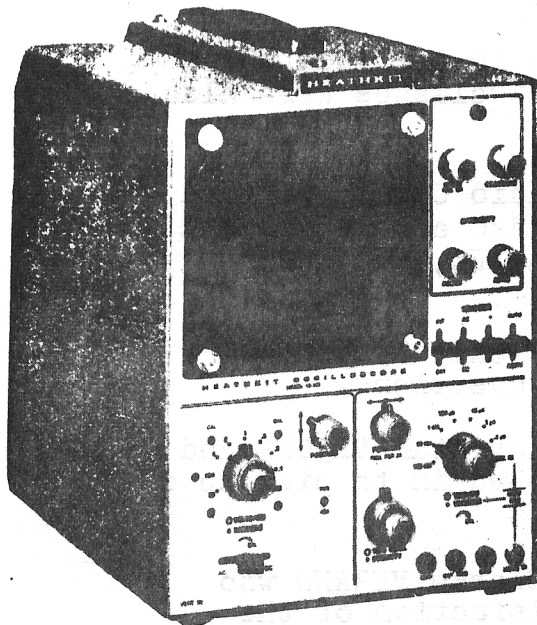
Flash -- Rumour has it that John VE3CYC has been seen on channels 2 and 7 in the late evening hours. Looks like John's new fast scan tv system is really getting out. John tells me that he is in the process of publishing a T.V. Guide so that we will know when he will be on again. He may also soon have a position available for a camera man, Whoops, pardon me, camera person. Good luck John, hope you get your camera working real soon.

Don't forget that June is the month for the Crawford Trophy. Start polishing up those homebrew projects for the competition.

June 28 and 29 is the dates for the Field Day 1975. Mark them on your calendar and start looking forward to a real nice weekend.

Pete Walton VE3FEZ

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Heathkit IM-1202 2 1/2-Digit Multimeter

2 1/2-digit Cold Cathode Readout Tubes —
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69⁹⁵

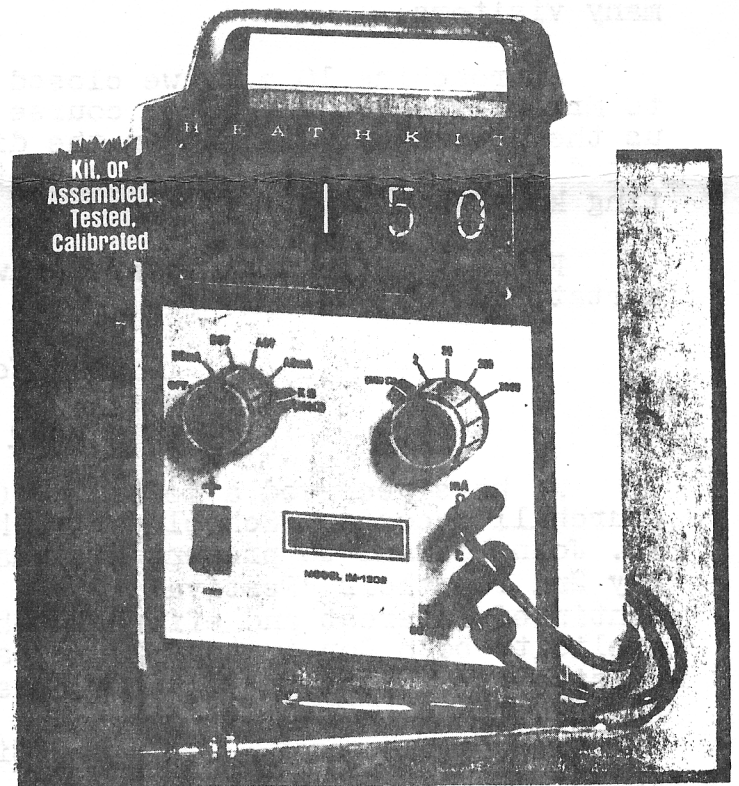
NO MONEY DOWN

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HAM RADIO DEMONSTRATION....at SHERWOOD HIGH SCHOOL

Herewith is a brief resume* of the demonstration held March 10th 1975 in the Sherwood High School.

Our two tables of equipment were set up in the room where all the Arts and Crafts displays of the night classes were also on display.

Mr. Willson VE3JL, instructor of the Radio Class, provided one transceiver, Mr. Bob Clarke VE3ANW provided a receiver and a 2 metre rig, while I provided a DX 40 with VFO, the Marine and Overseas display.

I must say great interest was shown not only by young people but by many adults who asked probing questions.

We were pleased to welcome to our display Stan VE3GFE and Ed Leslie VE3EHL who in all probability dropped in to pick up a few hints, it was nice of them to come by.

An excellent P.R. job was done by Bob Clarke VE3ANW who appeared to answer all questions to the satisfaction of the many visitors.

Approaching 10 p.m. we closed down and extended our Thanks to Mr. Willson VE3JL and of course to Gerald Crawshaw for giving us the opportunity to put on the display. Mr. Willson reciprocated by sending his greetings to the Club and said that instructing keeps him busy.

Finally a 'Thanks' to Mr. Crawshaw for providing the transportation.

John Holland VE3BOJ

ALSO

We have received a letter of Confirmation from Sir Winston Churchill Secondary School, which had requested the services of Mr. John Holland to present his Amateur Radio demonstration on May 2nd for their "Festival '75". Congratulations John, your continued interest and effort in this direction is creating good publicity both for Amateur Radio, and for the club, as well as raising it's prestige. Many Thanks on behalf of the Executive of H.A.R.C.

Bill McCaslin

IN APPRECIATION

I would like to take this opportunity to express my appreciation to those members of H.A.R.C. who gave of their time and talents to solve my T.V.I. problem and get me back on the air. Many thanks fellows!

Les Tobicoe VE3EGT

Radio electronics

The store includes a variety of electronic kits and components. The store is open from 10:00 AM to 6:00 PM, Monday through Saturday. The store is located at 123 Main Street, Springfield, MA 01103. The store is a member of the National Electronics Retailers Association (NERA).

The following kits are available in the store - VARIOUS ANTENNA KITS, VARIOUS AMPLIFIER KITS, VARIOUS TUNING KITS, VARIOUS FILTER KITS, VARIOUS METER KITS, VARIOUS LOGIC KITS, VARIOUS POWER SUPPLY KITS, VARIOUS CLOCK KITS, VARIOUS TEST EQUIPMENT KITS, VARIOUS COMMUNICATIONS KITS, VARIOUS AUDIO KITS, VARIOUS VIDEO KITS, VARIOUS MEASUREMENT KITS, VARIOUS CONTROL KITS, VARIOUS DISPLAY KITS, VARIOUS STORAGE KITS, VARIOUS INTERFACE KITS, VARIOUS NETWORK KITS, VARIOUS SIGNAL KITS, VARIOUS TRANSDUCER KITS, VARIOUS ACTUATOR KITS, VARIOUS SENSOR KITS, VARIOUS TRANSDUCER KITS, VARIOUS ACTUATOR KITS, VARIOUS SENSOR KITS.

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Bob	518-3885
Dave	618-6875
John	775-5375
Sam	528-3225
Alan	305-6110
Bill	618-2190

For more information, please call us at 518-3885. We will be happy to help you with your electronics needs. We are open from 10:00 AM to 6:00 PM, Monday through Saturday. The store is located at 123 Main Street, Springfield, MA 01103. The store is a member of the National Electronics Retailers Association (NERA).

Emergency Co-ordinator
Alan Gibson (VE3 TH)

A.R.E.C. NEWS FOR THE H.A.R.C.

Our recent exercise, "Good turn Day", came off successfully, Saturday, March 22, 1975. All went well and any problems were looked after promptly. The weather was poor, most of the day rain, wind and fog. That did not stop the mobiles from locating and reporting on each of their designated check points. Each mobile was given a map, procured by VE3GCP, showing their area and points to cover.

The area included Aldershot, Ancaster, Dundas and Stoney Creek, finishing up the operation at the warehouse, Mount Hope. Bill VE3ARX reported that Mr. Doug. Wallace of Amity was pleased with our effort.

The following participated in the exercise - VE3EHL/M.Ed, VE3DSP/M.Glen and son Dennis, VE3DU/M.Alex and Jim Conway, VE3DVV/M.John with VE3GVF/Bob, VE3GCP/M.Fred, and VE3ARX/Bill with Stan VE3GFE as co-pilot part of the time. VE3FHQ and VE3GFE operated the Base.

Thanks again fellows for a job well done.

Glen VE3FHQ

PRESENT A.R.E.C. MEMBERSHIP:	Full	30
	Limited	33
	TOTAL	63

If you become aware of an emergency or other situation requiring communications please call me at - 385-2786, or one of the assistant E.C.'s

VE3 ARX	Bill	634-5190	
VE3 DSP	Glen	385-8478	
VE3 EHL	Ed	528-3222	
VE3 BOY	John	772-5372	(Cayuga)
VE3 FLZ	Dave	648-6872	
VE3 ANW	Bob	648-3685	

April 19th there will be a S.E.T. similar to the January exercise, full details at the meeting.

Sunday, May 25th, there will be a Bike-a-thon which we have been asked to provide communications. All the mobiles available will be needed! Please let us know if you are available.

Glen Gibson VE3 FHQ
Emergency Co-ordinator.

SWAP SHOP

- VE3GFE is looking for 1 H23-10 mobile power supply for a Motorola Handi-Talkie. He still needs 1 aluminium snow Saucer.
- VE3DOU has for sale a complete station, NC-303RX, Viking Valiant, Johnson 55B adaptor, combination SWR Bridge, antenna Tuner, antenna switch, in one unit. Price \$450.00
- VE3COV has for sale Arettron 2 meter FM, built in AC/DC supply crystals for DRW, also 50 watt AM transmitter C/W power supply.

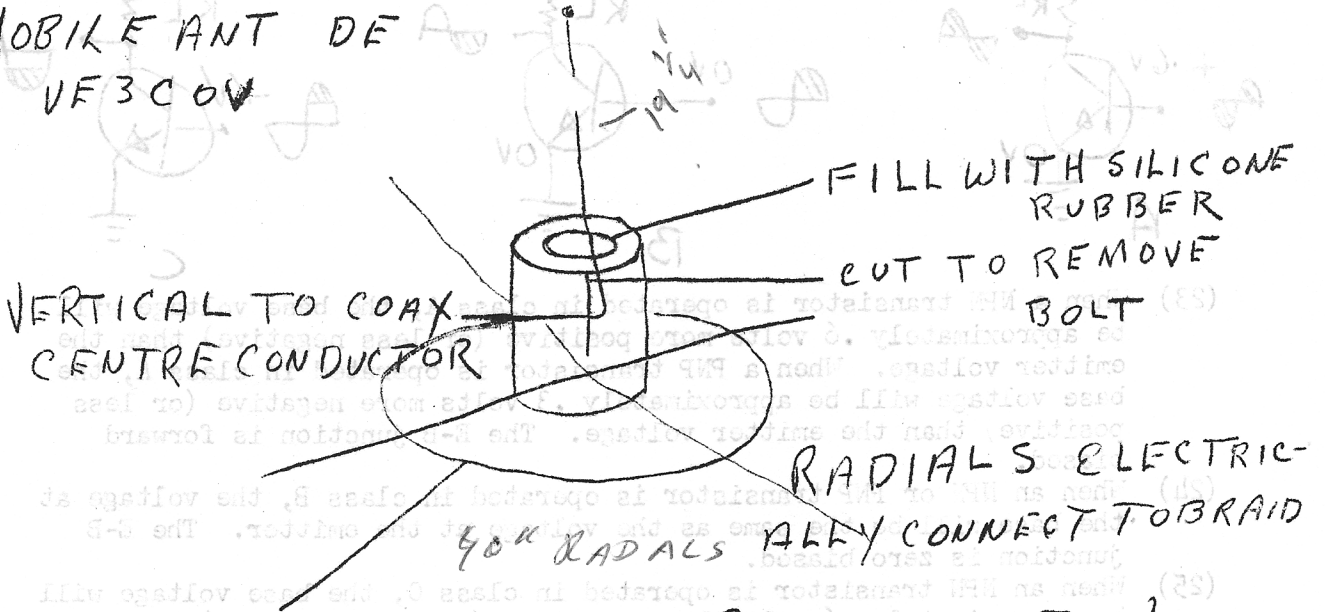
LES DONN 243 MARGARET ST. CK. 662-8783
 HEARD ON DRW LATELY

- WB2YGO/MVE3 From New Jersey
- VE3CIB Bob
- VE3DOU Peter has a pacer mobile now
- VE3FOH Roy has a Rock on Hamilton again
- VE3FEZ is back from holidays and has his portable back from repairs.
- VE3COV Les is channel hopping with an IC230

TVI HINT OF THE MONTH

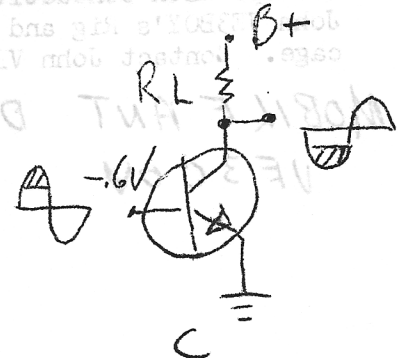
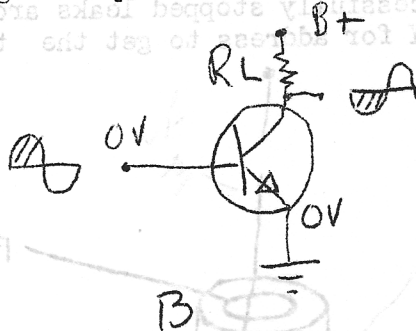
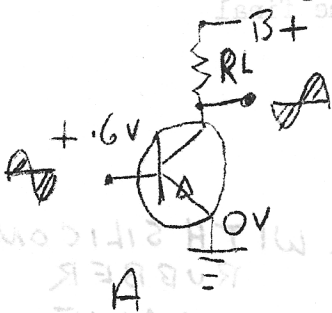
RF tape with conductive adhesive has been used on Alex VE3DQU's and John VE3BOY's Rig and successfully stopped leaks around the final cage. Contact John VE3BOY for address to get the tape.

MOBILE ANT DE
 VE3COV



CANADIAN TIRE ROOF RACK SUCTION
 CUP, APPLY WITH SILICONE OR OTHER
 GREASE TO ASSIST ADHESION.

- (17) In a forward biased NPN transistor (silicon) the nominal voltage drop across the E-B junction is .6 volts, plus or minus .2 volts (.4V or .8V). The base will be more positive (or less negative) than the emitter.
- (18) In a forward biased PNP transistor (germanium) the nominal voltage drop across the E-B junction is .3 volts, plus or minus .1 volts (.2V to .4V). The base will be more negative (or less positive) than the emitter.
- (19) A positive going signal applied to the base of an NPN transistor will turn the device on more (P signal to a P base) whereas a negative going signal applied to the base of an NPN transistor will turn the device off more (N signal to a P base).
- (20) A negative going signal applied to the base of a PNP transistor will turn the device on more (N signal to an N base) whereas a positive going signal applied to the base of a PNP transistor will turn the device off more (P signal to an N base).
- (21) Consider a transistor as being comparable to a variable resistor that is terminated in a fixed load. In fact, that's where it got its name: originally it was called a transfer resistor. (TRANS)FER RES(ISTOR). Transistor! It transfers energy from point A to point B. This energy can be in the form of voltage, current, or power (AC and/or DC). In the process of doing so it has the ability to magnify this energy.
- (22) Any one of the three basic configurations can be operated in three distinct classes: A, B, or C.
 - a class A stage processes all the input signal
 - a class B stage processes one half of the input signal
 - a class C stage processes less than one half of the input signal (e.g. one quarter).



- (23) When a NPN transistor is operated in class A, the base voltage will be approximately .6 volts more positive (or less negative) than the emitter voltage. When a PNP transistor is operated in class A, the base voltage will be approximately .3 volts more negative (or less positive) than the emitter voltage. The E-B junction is forward biased.
- (24) When an NPN or PNP transistor is operated in class B, the voltage at the base will be the same as the voltage at the emitter. The E-B junction is zero biased.
- (25) When an NPN transistor is operated in class C, the base voltage will be approximately .6 volts less positive (or more negative) than the emitter voltage. When a PNP transistor is operated in class C, the base voltage will be approximately .3 volts less negative (or more positive) than the emitter voltage. The E-B junction is reverse biased. It should be noted that as far as E-B voltage is concerned, CONCEPTS No.23 and No.25 pre-suppose that the NPN transistors are silicon devices and that the PNP transistors are germanium devices.

THE QUIET CORNER

Read: Psalm 19: 7-11

THE MOST VALUABLE PURCHASE

The statutes of the Lord are....more to be desired
...than gold, yea, than much fine gold

Psalm 19: 8,10

Growth in the Christian life is determined by the value one places upon the Bible. The Lord himself has exalted His Word above His name (see Psalm 138:2). A tremendous source of spiritual wealth is therefore contained in a single copy of the Scriptures!

John Wanamaker, an outstanding merchant of the 19th century, began his career as an errand boy at \$1.25 a week and later became one of America's leading businessmen. When asked what he considered to be the best investment he had ever made, he replied, "I have, of course, made large purchases of property in my lifetime, involving millions of dollars. But when I was only 11 years old, I made my biggest purchase of all. From my teacher in a little mission Sunday school, I bought a small, red leather Bible. It cost me \$2.75. I paid for it in small installments from my own money that I had earned."

The Bible was Wanamaker's greatest acquisition because its priceless truths brought spiritual vitality to his life and gave him strength of character. By reading and believing God's Word he not only established a solid foundation for his business, but he also was guided by biblical principles in everything he did. Someone has said, "If you leave the Bible out of your life, you have lost a life that can be found nowhere else but in the Bible."

How highly do you value the Scriptures? Remember, inestimable treasures are contained within this Book. Referring to the ordinance of God, the psalmist said, "More to be desired are they than gold," and "in keeping of them there is great reward."

Holy Bible, Book divine,
Precious treasure, thou art mine:
Mine thou art to guide and guard,
Mine to punish or reward.

THOT: Other books were given for our information; the Bible was given for our transformation.

Courtesy of 'Our Daily Bread'

Keep smiling,

Bill VE3ARX