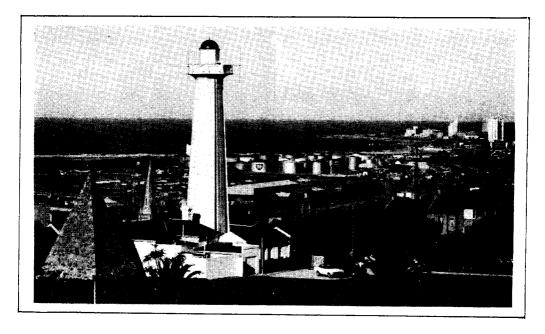


QSX PE

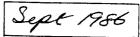




THIS NEWSLETTER IS PUBLISHED BY THE PORT ELIZABETH BRANCH OF THE SOUTH AFRICAN RADIO LEAGUE.

P.O. BOX 462, PORT ELIZABETH 6000

P.O. BOX 10402 LINTON GRANGE 6015



INVITATION

MEMBERS AND THEIR FAMILIES ARE CORDIALLY INVITED TO ATTEND THE ANNUAL GENERAL MEETING OF THE PORT ELIZABETH BRANCH TO BE HELD AT 3.P.M. ON SATURDAY 20TH SEPTEMBER 1986 AT THE SCOUT HALL, CORNER OF VILLIERS ROAD AND TENTH AVENUE, WALMER.

THE MEETING WILL BE FOLLOWED BY A SOCIAL GET-TOGETHER AND SPIT-BRAAI.

SOME WINE FOR THE ADULTS AND COLDDRINKS FOR THE CHILDREN WILL BE PROVIDED BY THE BRANCH, AND ANY FURTHER LIQUID REFRESHMENT DESIRED SHOULD HE BROUGHT BY THE MEMBERS THEMSELVES.

NOTICE OF ANNUAL GENERAL MEETING

THE ANNUAL GENERAL MEETING OF THE PORT ELIZABETH BRANCH OF THE SOUTH ON SATURDAY 20TH SEPTEMBER 1986.

DIE ALGEMENE JAARVERGADERING VAN PORT ELIZABETH BRANCH OF THE SOUTH
AFRICAN RADIO LEAGUE WILL BE HELD
IN THE SCOUT HALL, CNR. 10TH AVENUE
AND VILLIERS ROAD, WALMER AT 3.00PM
VILLIERS WALMER TEEN 3.00PM
VILLIERSWEG, WALMER T TAK PORT ELIZABETH VAN DIE SUID-SATERDAG 20 SEPTEMBER 1986 PLAASVIND.

THE AGENDA IS AS FOLLOWS:

- 1) WELCOME AND APOLOGIES
- 2) TRIBUTE TO SILENT KEYS
- SEPTEMBER 1985
- 4) ADOPTION OF CHAIRMANS REPORT
- 5) ADOPTION OF FINANCIAL STATEMENT
- 6) ELECTION OF OFFICE BEARERS
- 7) PRESENTATION OF TROPHIES
- 8) GENERAL

DIE AGENDA LEI SOOS VOLG:

- 1) VERWELKOMING EN VERONTSKULDIGINGS
- 2) HULDEBLYK AAN STILSLEUTELS
- 3) MINUTES OF ANNUAL GENERAL MEETING 3) NOTULE VAN ALGEMENE JAARVERGADERING SEPTEMBER 1985
 - 4) AANVAARDING VAN VOORSITTER SE JAARVERSLAG
 - 5) AANVAARDING VAN FINANSIELEBERIG
 - VERKIESING VAN KOMITEE
 - 7) GORHANDING VAN TROFEES
 - 8) ALGEMEEN

PLEASE SUPPORT OUR ADVERTISERS. SAY YOU SAW IT IN QSX-PE.

MINUTES OF THE ANNUAL GENERAL MEETING OF THE PORT ELIZABETH BRANCH OF THE SOUTH AFRICAN RADIO LEAGUE HELD AT THE SCOUT HALL, VAN PLETTENBERG STREET, KABEGA PARK, PORT ELIZABETH ON SATURDAY 21ST SEPTEMBER, 1985.

PRESENT 100 MEMBERS AND FAMILIES.

APOLOGIES ZRZEY, ZSZAP, ZSZMK, ZSZMC, ZSZSI.

THE CHAIRMAN WELCOMED ALL TO THE MEETING AND SAID THAT THERE WAS A RECORD TURN-OUT FOR AN A.G.M. A SPECIAL WELCOME WAS EXTENDED TO CYRIL ZSZKX AND BETTE ZSZLO, TO GARTH ZSZHB, RABIE VAN DER MERWE AND TO THE GUEST OF HONOUR, HANNES MCLEOD AND HIS XYL. HANNES HAD RECENTLY TAKEN OVER THE DUTIES OF DOUG HOPKINS. IT WAS INDEED A PLEASURE TO HAVE SO MANY WIVES AND CHILDREN PRESENT AND TO SEE FACES TOO SELDOM SEEN.

MINUTES OF ANNUAL GENERAL MEETING THE MINUTES OF THE ANNUAL GENERAL MEETING HELD 22ND SEPTEMBER, 1984, HAVING BEEN PUBLISHED AND CIRCULATED IN QSX-PE, WERE TAKEN AS READ, PROPOSED BY LYNN ZS2MM AND SECONDED BY TREVOR ZS2AE.

CHAIRMAN'S REPORTBRIAN SAID THAT AS HIS REPORT HAD BEEN PUBLISHED FULLY IN 0SX-PE, HE DID NOT INTEND TO REPEAT IT, BUT WISHED ONCE AGAIN TO EXTEND GRATEFUL THANKS TO THE COMMITTEE MEMBERS AND ALL THE MEMBERS OF THE BRANCH FOR THEIR SUPPORT, GENEROSITY AND HARD WORK DURING THE PAST YEAR. WITHOUT THE MEMBERS, THERE WOULD BE NO BRANCH, AND HE HOPED WE WOULD GO FROM STRENGTH TO STRENGTH IN THE COMING YEAR. HE EXPRESSED THANKS TO NORMAN ISZRI FOR THE GENEROUS DONATION OF THE COMPUTER, DISK DRIVE AND MONITOR FOR USE ON THE RITY MAILBOX. ALL THE MONEY SPENT HAD BEEN WELL WORTHWHILE AND THE FACT THAT THERE HAD BEEN THE INTRODUCTION OF ADVERTISING IN QSX-PE TO OFF-SET THE PRODUCTION COSTS WAS A GREAT HELP. QSX-PE CONTINUED TO BE PRODUCED ON TIME EVERY MONTH DESPITE SOME GREAT ODDS. BRIAN THANKED MEMBERS ONCE AGAIN FOR THEIR HELP.

THE CHAIRMAN'S REPORT WAS THEREUPON ACCEPTED, PROPOSED BY DICK ZS2RS AND SECONDED BY LIONEL ZS2DD WITH UNANIMOUS SUPPORT FROM THE MEMBERS.

25000 WAS PRESENTED WITH THE MINIATURE

FINANCIAL STATEMENT THE FINANCIAL STATEMENT HAVING BEEN PUBLISHED IN OSX-PE, AFTER AUDITING BY GUS ZS2MC, WAS ACCEPTED, PROPOSED BY GORDON ZS2GK AND SECONDED BY LYNN ZS2MM. ALTHOUGH THE EXPENDITURE DURING THE YEAR HAD BEEN FAIRLY HIGH, NONE OF IT WAS UNNECESSARY AND HAD ONLY BENEFITTED THE BRANCH.

ELECTION OF OFFICE BEARERS AT THIS POINT THE COMMITTEE STOOD DOWN AND THE CHAIR WAS TAKEN BY CYRIL ZSZKX, WHO USUALLY PERFORMED THE DUTY OF IMPARTIAL ELECTION. CYRIL SAID IT WAS HIS PLEASANT DUTY TO CALL FOR NOMINATIONS FOR THE ENSUING YEAR AND CALLED FOR NOMINATIONS FOR THE POSITION OF CHAIRMAN. BRIAN ZSZAB WAS PROPOSED BY ZSZDD AND THIS WAS UNANIMOUSLY SECONDED. THERE BEING NO FURTHER NOMINATIONS, THIS WAS DECLARED CLOSED. CYRIL WELCOMED BRIAN BACK INTO THE CHAIR AND CONGRATULATED HIM ON HIS WORK DURING THE PAST YEAR WHICH HAD BEEN MOST SUCCESSFUL AND SAID THE BRANCH COULD BE PROUD OF STORY OF THE PAST YEAR WHICH HAD BEEN MOST SUCCESSFUL AND SAID THE NEW COMMITTEE A VERY SUCCESSFUL YEAR AHEAD.

BRIAN THANKED THE MEMBERS FOR THEIR CONFIDENCE IN HIM AND HOPED THE FORTHCOMING YEAR WOULD BE AS PLEASANT AND SUCCESSFUL AS THE LAST.

AT THIS STAGE, NOMINATIONS WERE CALLED TO FILL THE VACANT POSITIONS ON THE COMMITTEE:

NOMINEE	PROPOSER	SECONDER
ZS2AE	ZS2RS	BILL HODGES
ZS20B	ZS2KX	ZS2GK
ZS2RS	ZS2AE	ZS2MF
ZS2DD	ZS2PJ	ZS2RM
ZS2GK	ZS2AB	ZS2AE

THERE BEING NO FURTHER NOMINATIONS, VOTING WAS CLOSED. THANKS WERE EXTENDED TO THOSE WHO WERE WILLING TO SERVE ON THE COMMITTEE AND THE AIM WAS TO KEEP THE STANDARD OF THE BRANCH FLYING HIGH. BRIAN SAID HE WOULD LIKE TO THANK PETE ZS2PJ FOR HIS WORK AS TREASURER OVER THE PAST YEAR AND IT WAS ONLY DUE TO THE FACT THAT HE HAD BEEN TRANSFERRED TO PRETORIA THAT HE WAS STANDING DOWN. A ROUND OF APPLAUSE WAS GIVEN TO THE PAST COMMITTEE.

GENERAL (1) J.O.T.A WAS DUE TO TAKE PLACE ON 19/20 OCTOBER AND OPERATORS WOULD BE NEEDED FOR THE MAJOR PORTION OF THE WEEKEND, EITHER FOR P.R.O. WORK OR AS OPERATORS. THE BRANCH HAD BEEN AWARDED THE LICENCE OF ZS2JAM AND THIS WOULD BE FRAMED AND HUNG IN THE SCOUT HALL AT GILSANDS AND USED FOR SOLELY SCOUTING PURPOSES. IT WAS HOPED TO INVOLVE THE SCOUTS MORE IN THE J.O.T.A. WEEKEND.

(2) BRANCH MEMBERSHIP FIGURES WERE ONLY DOWN 5 ON THE PREVIOUS YEAR INSPITE OF THE FACT THAT WE HAD LOST 23 MEMBERS WITH TRANSFERS TO OTHER CENTRES AND THE FACT THAT THE TECHNICAL CLASSES HAD NOT BEEN HELD THIS YEAR. HOWEVER, THERE HAD BEEN A GOOD INCREASE IN NEW MEMBERS IN SPITE OF THE DRAMATIC SUBS INCREASE. BRIAN THANKED MEMBERS FOR THEIR CONTINUED SUPPORT OF THE BRANCH.

(3) THANKS WERE EXTENDED TO BUCK ZS2RM WHO REGULARLY GOT UP AT 2A.M. TO COPY THE WIAW DX AND PROPAGATION REPORTS AND ALSO TO BARRY ZS2DT WHO ENTERED THESE INTO THE MAILBOX.

(4) THE TROPHIES THAT WERE AVAILABLE TO MEMBERS WERE MENTIONED. THESE INCLUDED THE 6 METRE VHF TROPHY, THE DF HUNT TROPHY, THE 2 METRE TROPHY, THE ZS2AB HOME CONSTRUCTION TROPHY AND THE ZS20B DX TROPHY.

LIONEL ZS2DD WAS PRESENTED WITH THE MINIATURE OF THE ARTHUR HEMSLEY TROPHY FOR 2 METRE OPERATION.

BUCK ZS2RM WAS PRESENTED WITH THE ZS20B DX TROPHY WITH 1625 CONTACTS. COLIN ZS2AO WAS PRESENTED WITH THE ZS2AB HOME CONSTRUCTION TROPHY.

THERE BEING NO FURTHER BUSINESS THE MEETING WAS CLOSED. THE SOCIAL GET-TOGETHER THEN GOT INTO FULL SWING WITH A SPIT BRAAI PROVIDED BY THE BRANCH AND THE SALADS PROVIDED BY THE XYLS. ALL HAD A THOROUGHLY GOOD TIME. UNNECESSARY AND HAD SOLVE SENEMITTED THE BRANCH.

SGD:
B.A. WELLER ZS2AB M.T. WELLER ZS2OB
CHAIRMAN SECRETARY

FOR SALE FROM THE ESTATE OF THE LATE ZS2FA. BY 19200 AND THIS WAS UNANI

1 YAESU FL2100 HF LINEAR AMPLIFIER WITH MANUAL R500,00

1 ASTATIC D104 MICROPHONE WITH DESK STAND R20,00 1 KENWOOD MC50 DESK MICROPHONE R100,00

PLEASE CONTACT BARRY JACKSON ZS2SG AT 303052 OR BRIAN ZS2AB AT 303498.

THIS PAGE HAS BEEN SPONSORED BY KABEGA PARK PHARMACY, 6 SHOPPING CENTRE, KABEGA - PHONE 302322.

STOCKISTS OF: COTY, REVLON, OLD SPICE AND HOMEOPATHIC REMEDIES. PHOTOGRAPHIC SUPPLIES AND TOILETRIES. FREE DELIVERIES.

USING THE GRID-DIP

Part III

METER

WILFRED M. SCHERER, W2AEF

With acknowledgements to CQ.

This series of articles on using the grid-dip meter will be concluded with applications on transmission lines and antennas.

Transmission Lines

The length of quarter-wave and half-wave transmissions lines may be determined as follows:

Quarter-Wave Shorted Lines: Use g.d.o. coupled to open wire lines as shown at fig. 2I (in Part I) and to coax lines as at fig. 2H (in Part I). When lines are trimmed for correct length, the fittings to be eventually used for connections should be installed on the end of the line. The approximate required length of the line may initially be determined by rough calculation, taking into account the propagation constant. Additional resonant points will be found at a frequency three times that of the fundamental quarter-wave, where the line is then three-quarter waves long; or five times the frequency for a five-, quarter-wave line, etc.

Quarter-Wave Open Lines: For open-wire lines connect a short at one end and measure as for quarter-wave shorted lines. Due to the length of the short, the actual electrical length of the line (used as an open-line) will be slightly in error depending on the line spacing. The closer the spacing, the smaller the error.

For coax lines, place short on line and measure as quarter-wave shorted line. The short should be as direct as possible from the inner conductor to the shield to avoid errors. Fittings also should be included. Shorts should be removed after measurements are completed.

Half-Wave: For open-wire or coax lines, measure for quarter-wave shorted line at half the calculated or desired frequency. The resonant frequency thus found must then be multiplied by 2 for a resulting half-wave shorted line.

Half-Wave Open Lines: For open-wire lines couple g.d.o. at center as shown at fig. 2J (in Part I). For coax line, short one end and measure for quarter-wave shorted line at half the calculated frequency. Resonant frequency thus found must be multiplied by 2 for correct length of the line after the short is removed; provided, the short was made direct as mentioned above.

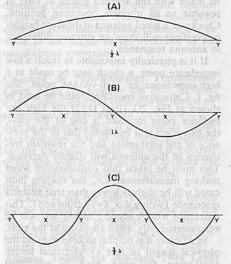


Fig. 1—Current distribution on various-length antennas. A—One-half wave. B—One full wave. C—Three half waves. The g.d.o. preferably should be inductively coupled at the low impedance points marked X. Capacitance coupling is obtained at high-impedance points Y.

PARTY SHE SHEET OF THE PROPERTY OF THE PROPERTY OF

Checking Standing Waves: Open-wire feed lines may be checked for the existence of standing waves by using the instrument as a diode detector. A flat line is indicated when the meter reading remains constant as the g.d.o. inductor is moved along the line. Care must be taken to maintain a uniform distance or coupling between the line and inductor. Since the g.d.o. inductor often is protected with an insulated sleeve, it may be held against the line for keeping the coupling constant.

This method is like that using a neon bulb or similar device, except better accuracy can be had since the variations can be more easily seen on a meter.

Antennas: Use instrument as g.d.o. Coupling should be made at a low impedance or high current point as shown in Fig. 2F (Part I). This point, for a half wave antenna or one a number of odd half-wave lengths long, is at the center. For antennas an even number of half-waves long, a low impedance point will be found at a quarter wave measured

from either end. Also, see fig. 1. It will be observed that a full-wave antenna will not be a half-wave at exactly half its resonant frequency. This is because the end effects are found only at the antenna ends and will be absent at other points when the antenna is a full wave or more long. Measurement should be made with the antenna placed as near as possible to its ultimate operating position. Checks on a given antenna at different heights or positions will show an amazing difference in antenna resonance.

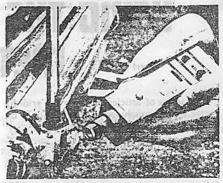
If it is physically impossible to reach a low impedance point, a check may be made at a high-impedance or high-voltage point. See fig. 1. Capacitive coupling should be used as shown at Fig. 2G (Part 1). If the high impedance point involved is one of the ends, the end effect will be altered due to the presence of the instrument and the resonant frequency of the antenna will slightly decrease. This must be taken into consideration when making measurement, i.e., the reading indicated will be slightly lower than true antenna resonance (with g.d.o. away from end). This difference will be about 1 to 3% and will be encountered only when checking at the ends.

In all cases it is helpful to keep in mind the physical length in feet vs. electrical length (half-wave, full-wave, etc.) as calculated approximately by formula. Unlike lumped resonant circuits, antenna harmonics are detected when using the g.d.o. As previously mentioned, these harmonics will not occur at exact multiples of a half-wave.

When measurement is made, the feeders should be disconnected from the antennas. Unless the feeders happen to be perfectly matched or terminated, true antenna resonance will not be indicated because unmatched feeders or incorrectly terminated feeders will present either a positive or negative reactance and will, therefore, alter the electrical length.

When the antenna element is of very large diameter, such as is often found in beams, sufficient coupling to the g.d.o. may not be obtained and some difficulty will be encountered in finding a reading. This condition may sometimes be relieved by jumping a foot or so of the antenna at the center with a small diameter wire and coupling to this wire.

If the antenna is to be normally used with its center open, close it with the shortest possible wire during measurement. This must be done also with the folded dipole. The short may later be removed, if required, when the feedline is connected.

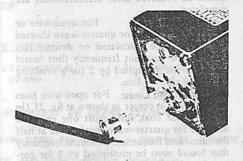


Mobile antenna checked with g.d.o. coupled to small loop connected between antenna base and ground.

Quarter-Wave Vertical Antennas: With quarter-wave vertical antennas, resonance may be found by disconnecting the transmission line, shorting the feed point to the ground system and using the g.d.o. at the base.

If adequate coupling cannot be realized for a dip indication, where possible, reverse the inductor 180° when it is plugged into the g.d.o. or otherwise orient it in relation to the antenna element as suggested in Part I. If this fails to provide the necessary coupling, then connect a small one or half-turn loop instead between the antenna base and ground using as short leads as possible (to minimize defuning of the antenna).

If the antenna has a center-loading coil, the g.d.o. may be coupled along the lower portion of the antenna element while the base is grounded. Readings also may be obtained with the g.d.o. coupled near the bottom of the loading coil, but care must be taken to see that body presence (particularly above the loading coil, does not detune the system. Base loading may be similarly checked while following these precautions. Unloaded antennas will exhibit a fairly broad dip and loaded an-



Method of coupling g.d.o. to shorted twin lead.

tennas will produce sharper dips due to their higher Q.

Mobile Antennas: Mobile antennas usually are the quarter-wave vertical type, requiring the use of the g.d.o. as described above for such antennas.

Parasitic Beams: Tuning a parasitic beam for maximum gain or best front-to-back ratio cannot be very well done using the grid-dip meter; however, the determination of other characteristics may be helpful and can be

accomplished as follows:

Parasitic beams may initially be adjusted using the g.d.o. to check the frequency of each element. The driven element should be resonated to the operaing frequency, while the directors are tuned slightly lower in frequency and the reflector slightly higher. These elements may be checked individually using the g.d.o. coupled at the center of the element. The feedline and any matching device should be disconnected and if the center of the driven element is open, temporarily place a short across this point.

Since the various elements are coupled together according to the spacing between them, several dips may be observed on any one element and may be indicative of the resonant frequency of the other elements. The most pronounced dip will be that related to the element under test. When changes are made in the length of one element, interaction may shift the resonant frequencies of the other elements. This then is a give-and-take proposition. The final result should be one that produces the most pronounced dip as possible on the driven element at the operating frequency with the least indication of dips from the other elements.

Final precise adjustment should be made, particularly if a matching system is to be employed at the antenna, by using an s.w.r. bridge or a variable-impedance bridge driven by the grid-dip meter used as a signal source with it's being coupled to the bridge through a one or two turn loop. The coupling to the instrument should be as little as possible consistent with obtaining a useable reading, otherwise the oscillator frequency may slightly shift; as a matter of fact, an occasional frequency check of the signal on a receiver will be advisable.

Trap Antennas: Trap antennas may be set up by first adjusting the individual traps for the proper resonance, before they are installed, as explained under parallel-tuned traps. After there have been tuned and installed in the antenna, the other elements may be adjusted to length for resonance of the entire system on the related bands using the g.d.o. as explained for antenna measurements.

Resonant Transmission Lines: Resonant transmission lines usually are associated with end-fed Zepp antennas as well as center fed types. These generally are tuned and coupled to the transmitter through either a parallel or series tuned L/C circuit, depending on the length of the feedline and the feedpoint. The setup may be checked for resonance at the operating frequency using the g.d.o. coupled to the circuit inductor. If resonance cannot be achieved at the desired point, changes may be made in the length of the feedlines or the tuned-circuit constants.

Un-tuned or Non-Resonant Transmission Lines: After the antenna has been adjusted to the correct length as indicated by the g.d.o., an untuned or non-resonant transmission line may be connected to it. If the antenna impedance matches that of the surge impedance for the transmission line, the g.d.o. coupled to the line with a small loop will indicate the initial antenna frequency regardless of the line length.

If such is not the case, a matching device will be needed between the antenna and the line. A match will be indicated when the adjustments are made to meet the aforesaid conditions with the g.d.o. coupled to the line. Antenna Tuning via 300-ohm Twin Lead: When the antenna is "up in the air", it may not be physically possible to reach it for a g.d.o. measurement, but the job may be done in conjunction with a half-wave length (or any multiple thereof) of 300-ohm twin lead connected to a low-impedance point at the antenna (center of a dipole).

The line itself should be cut to the proper amount by first determining its length as a multiple of a quarter wave at half the desired frequency as found using the g.d.o. as described for quarter-wave shorted lines. The short may be a small one-turn loop coupled to the g.d.o. The line will then be a multiple of a half-wave long at the desired antenna frequency and will duplicate any condition present at its far end (only at the frequency

for which the line is cut).

When connected to the low-impedance point of an antenna resonant at the same frequency, the same reading therefore will be indicated by the g.d.o. If the g.d.o. dip indicates a lower frequency, the antenna is too long; if the frequency is higher, the antenna is too short. The antenna thus may be adjusted to length as needed to obtain the dip at the resonant frequency for which the twin lead was

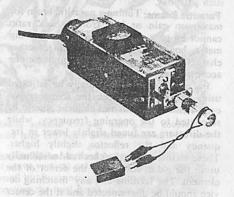
Conclusion

We have by no means included every possible application for the grid-dip meter; nevertheless, the information herewith presented should be adequate for most needs and also may serve as a guide line for enabling the user to employ his own ingenuity in other situations.

7T No.18 \$ Dia.
8T per inch

BBW No.3002
PIC No.1728
Air Dux No.408T

Fig. 1—Test inductor standard for determining capacitance when used in conjunction with a grid dip meter and either a calibration chart (fig. 2) or the formula described in the text.



G.d.o. coupled with loop attached to crystal-holder pins for checking overtone activity of crystal.

the related brands worm about he as et plantes.

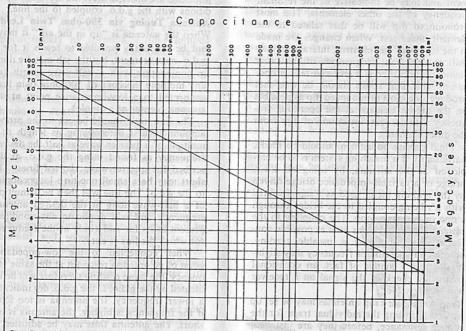


Fig. 2—Calibration chart for capacitance measurements with the g.d.o. using the clip-on inductor described at fig. 1. Accuracy depends on g.d.o. calibration and self-inductance of capacitor. Distributed capacitance of the inductor is about 1.5 mmf.

CHAIRMANS REPORT

ANOTHER YEAR GONE!! HOW TIME FLIES - BUT THE BRANCH CAME THROUGH IT IN GOOD CONDITION. THE LARGE HIKE IN SUBS. LAST YEAR BROUGHT FEARS OF GREAT LOSS OF MEMBERS - NEEDLESS FEARS I AM HAPPY TO SAY. CERTAINLY, A NUMBER OF MEMBERS DID NOT RENEW, BUT THE OLD FAITHFULS STUCK WITH US, AND SO MANY LOCAL AMATEURS JOINED OR REJOINED US THAT OUR VOTING STRENGTH AT THE 1986 AGM WAS EXACTLY THE SAME AS AT THE 1985 MEETING - "NO GROWTH" YOU MIGHT SAY, BUT NO LOSS EITHER!

OUR ANNUAL CONTRIBUTION TO THE JOTA WEEKEND WAS HIGHLY SUCCESSFUL, WITH THE OPERATION AT GILSANDS WHERE THE SCOUTS INVOLVEMENT WAS GREATER THAN EVER BEFORE - DUE TO THE EXCELLENT ORGANIZATION OF TINY PACKWOOD AND HER COLLEAGUES. WE WERE ABLE TO HEIGHTEN THE SCOUTS ENTHUSIASM SOMEWHAT WITH THE PRESENTATION TO THEM OF THE ZSZJAM LICENCE, KINDLY ISSUED TO THE BRANCH BY THE PMG FOR OUR USE AT JOTA AND OTHER SCOUT-RELATED ACTIVITIES. I AM SURE THAT WE MUST BE THE FIRST, AND POSSIBLY ONLY, BRANCH TO HOLD A

PERMANENT JOTA LICENCE.

THE COVERAGE OF OUR RITY BULLETIN BOARD SYSTEM WAS GREATLY EXPANDED DURING THE YEAR BY BEING FITTED WITH CRYSTALS FOR THE GRAHAMSTOWN REPEATER, WHERE IT IS CURRENTLY OPERATING ON A SEMI-PERMANENT BASIS. THIS, COUPLED WITH THE SPEED-CHANGE TO 50 BAUD HAS PRODUCED INCREASED ACTIVITY FROM OUT-OF-TOWN AMATEURS USING A WIDE VARIETY OF EQUIPMENT.

OUR 2-METRE BEACON WAS ACTIVATED DURING THE YEAR, ON ITS SITE IN CENTRAL, BUT AFTER A COUPLE OF WEEKS OPERATION THE TRANSMITTER WAS FOUND TO BE RADIATING SPURIOUS RF AND, AS IT WAS A PRETTY GHASTLY UNIT ANYWAY, IT WAS CONSIGNED TO THE TRASH-CAN AND A NEW, RESPECTABLE COMMERCIAL UNIT IS AWAITING INSTALLATION, A NEW CRYSTAL HAVING JUST BEEN RECEIVED FOR IT.

DURING THE YEAR WE HAD TO CHANGE OUR MEETING VENUE YET AGAIN DUE TO THE KABEGA SCOUTS DECIDING TO CHANGE THEIR MEETINGS TO FRIDAY NIGHTS. MARGE ARRANGED FOR US TO USE THE St.MARTINS CHURCH HALL, WHICH HAS PROVED TO BE VERY SUITABLE, AS IT IS WARM AND COMFORTABLE. THE KABEGA SCOUTS WERE SLIGHTLY ENRICHED BY OUR SPELL OF USE OF THEIR HALL, AS WE FITTED A FLOODLIGHT ABOVE THEIR BACK DOOR DURING OUR PERIOD OF OCCUPATION OF THE PREMISES. OUR MEETINGS CONTINUE TO BE VERY WELL ATTENDED AND WE HAVE BEEN ABLE TO PRESENT A NUMBER OF INTERESTING TALKS AND DEMONSTRATIONS DURING THE YEAR, RANGING FROM VIDEO AND SLIDE SHOWS TO PACKET RADIO DEMOS AND INSIGHTS INTO THE FINER POINTS OF AIR—TRAFFIC CONTROL.

THE BRANCH LIBRARY HAS BEEN WELL-USED AND A COUPLE OF HUNDRED ADDITIONAL BOOKS HAVE BEEN ADDED THIS YEAR THANKS TO DONATIONS FROM SEVERAL MEMBERS. ALTHOUGH IT IS NOW HOUSED IN A BUILDING SEPARATE FROM THE HALL, IT IS

STILL EASILY ACCESSIBLE.

QSX-PE HAS BEEN POSTED ON TIME EVERY MONTH THANKS TO THE EFFORTS OF OUR SECRETARY AND I THANK EVERYONE WHO CONTRIBUTED IN ANY WAY TO THE CONTENT THEREOF, AND PARTICULARLY TO OUR ADVERTISERS, WITHOUT WHOSE FINANCIAL SUPPORT COSTS WOULD HAVE BEEN MUCH HIGHER. A COUPLE OF LAST YEARS ADVERTISERS DECIDED NOT TO CONTINUE, BUT THESE WERE SOON REPLACED BY OTHERS, AS WELL AS SEVERAL LOCAL BUSINESS UNDERTAKINGS WHO, ALTHOUGH NOT WANTING A BACK-PAGE ADVERT AS SUCH, KINDLY OFFERED A DONATION EQUIVALENT TO A YEARS' ADVERTISING, HENCE THE "THIS PAGE SPONSORED BY...." APPEARING NOW IN QSX-PE.

THE IDEA OF THE "EVENTS CALENDER" THOUGHT UP BY DICK ZSZRS AND SPONSORED BY HIS SALTMINE MET WITH VERY FAVOURABLE COMMENT FROM MANY MEMBERS, AND HAS CERTAINLY PROVED TO BE OF GREAT VALUE. WE WILL HAVE TO CONTINUE THIS NEXT YEAR.

THE ACQUISITION OF A HIGHLY-RESPECTABLE PRINTER AT THIS QTH TOGETHER WITH THE SOFTWARE FOR A VERY VERSATILE WORD-PROCESSOR SYSTEM FOR THE APPLE HAS RESULTED IN A METAMORPHOSIS OF THE NEWSLETTER. THE NEW-STYLE FRONT COVER WHICH WILL BE CHANGED EVERY 3 MONTHS IS THE BRAIN-CHILD OF OUR EDITOR. DISCUSSION OF QSX-PE WOULD BE INCOMPLETE WITHOUT SPECIAL THANKS GOING TO ROBIN AND SYLVIA OF INSTANT PRINTING WHO HAVE CONTINUED TO PROVIDE AN EXCELLENT PRINTING SERVICE, SOMETIMES AT SHORT NOTICE, AND WHO CONTINUE TO DO THE JOB AT A VERY LOW COST.

SPECIAL THANKS ARE EXTENDED TO ANDRE ZSZBK WHO ARRANGED THE DOMATION OF A LARGE QUANTITY OF REDUNDANT COMPUTER EQUIPMENT TO THE BRANCH, THE PORTION OF THIS GEAR WHICH HAS ALREADY BEEN SOLD HAS BOLSTERED OUR INCOME APPRECIABLY, THE REST WILL BE MADE AVAILABLE SHORTLY. THE VERY GENEROUS DONATION OF VIDEO TAPES BY DICK ZSZRS ALSO HELPED GREATLY. UNFORTUNATELY THESE HAVE ALL BEEN SOLD AND NO FURTHER SUPPLIES ARE AVAILABLE. OUR 2-METRE REPEATER NETWORK HAS HAD ITS UPS AND DOWNS, WITH MOTHER NATURE HAVING PLAYED HAVOC WITH COCKSCOMB. HERE TREVOR ZSZAE AND HIS BAND OF WILLING HELPERS HAVE BEEN KEPT BUSY WITH SEVERAL TRIPS TO THE SITE-NO HELICOPTER, ALL SHANKS PONY!. QUITE A CLIMB, BUT THIS DOES NOT DETER THEM. THANKS CHAPS. THE DITHER 3 REPEATERS HAVE EXPERIENCED A FEW QRM PROBLEMS. BUT WITH THE INCREASE IN THE NUMBER OF COMMERCIAL VHF SYSTEMS ON THESE PRIME SITES, IT IS NOT UNEXPECTED, AND IS A SITUATION WHICH WE WILL HAVE TO LEARN TO LIVE WITH. WE HAVE BEEN ACCORDED A VERY SPECIAL PRIVILEGE BY THE S.A. POLICE WHO HAVE AGREED TO ALLOW US TO INSTALL OUR TOWN REPEATER ON THEIR NEW BUILDING AT THE TOP OF MOUNT ROAD. THIS IS AN EXCELLENT SITE AND THE UNIT WILL BE MOVED AS SOON AS THE NECESSARY ANTENNA ARRANGEMENTS HAVE BEEN FINALISED.

DURING THE YEAR THE COMMITTEE DECIDED THAT THE BRANCH SHOULD EMBARK ON A PROJECT TO PURCHASE ITS OWN EQUIPMENT FOR USE AT JOTA, HOBBIES FAIR, FIELD DAY ETC. AT WHICH WE SET UP BRANCH STATIONS. THIS WILL OBVIATE PROBLEMS OF HAVING TO ASK MEMBERS TO DISMANTLE THEIR SHACKS TO PROVIDE NEEDED ITEMS. SO FAR WE HAVE PURCHASED A 3 ELEMENT HF BEAM AND ROTATOR, WITH AN HF RIG

IN THE PIPELINE.

THIS YEARS HOBBIES FAIR WAS HELD AT A NEW VENUE AND I FEEL THAT THE MOVE, TAKEN OVERALL, WAS A GOOD ONE. I WAS FACED WITH A NEW SITUATION AT HOBBIES FAIR TIME THIS YEAR, THERE BEING SO MANY OFFERS OF HELP WITH MANNING THE STAND THAT IT WAS NOT POSSIBLE TO TAKE UP ALL THE OFFERS MADE AS THE STAND WOULD HAVE BEEN OVERCROWDED WITH OPERATORS. TO THOSE WHO OFFERED AND WERE NOT USED, MY SINCERE THANKS .. WE WILL USE YOU NEXT TIME.

THE CUSTOMARY CHRISTMAS PARTY FOR THE CHILDREN WAS AGAIN HELD ON THE FARM AT WHICH LAST YEARS PARTY WAS HELD AND WAS ENJOYED BY ALL, THERE BEING PLENTY TO EAT AND PRESENTS FROM SANTA INTO THE BARGAIN. THE ADULTS PARTY WAS POSTPONED UNTIL LATER IN THE YEAR DUE TO THE XMAS PROBLEMS OF FINDING A NICE VENUE, AND THE XMAS PRICES. THIS GET-TOGETHER WAS HELD AT THE TIVOLI RESTAURANT AND WAS VERY WELL ATTENDED, A THOROUGHLY GOOD TIME BEING HAD BY ALL.

DURING THE YEAR, O.M. WOODY DAMP ZS1"WARBLING DONKEY" PASSED AWAY, AS DID BOB POSSELT ZS2"FANNY ADAMS". BOB WAS NOT A MEMBER AT THE TIME OF HIS

DEATH, BUT HAD BEEN FOR MANY YEARS IN THE PAST. WE MISS THEM BOTH.

THE VERY SUCCESSFUL YEAR EXPERIENCED BY OUR BRANCH DID NOT HAPPEN BY ACCIDENT, BUT WAS DUE TOTALLY TO THE EFFORTS OF THE COMMITTEE AND YOU, THE MEMBERS. THESE EFFORTS DID NOT GO UNNOTICED, AND WE WERE AWARDED THE NEILL BRANCH EFFICIENCY SHIELD AT THE 1986 AGM. OTHER AWARDS WERE MADE TO MEMBERS, MIKE BOSCH ZSZFM RECEIVING A VHF TROPHY AND MARGE ZSZOB BEING AWARDED THE JACK TWINE MERIT AWARD - RICHLY DESERVED AND LONG OVERDUE. THE BRANCH HAS RECEIVED SO MUCH HELP BOTH FROM MEMBERS AND OTHERS THAT IT IS UTTERLY IMPOSSIBLE TO THANK EVERYBODY INDIVIDUALLY, THEREFORE I NOW EXTEND MY THANKS TO EVERYONE WHO HAS HELPED US IN ANY WAY WHATSDEVER, "AND I AM CERTAIN THAT THE BRANCH CAN LOOK FORWARD TO THE SAME SUPPORT IN THE COMING YEAR.

SOFTWARE FOR A VERY VERSATTE WORD-PRINCESSOR SYSTEM FOR THE AFFLE HAS RESULTED IN A SETAMORPHOSTS OF THE NEWSLETTER! THE NEW-STYLE FRONT COVER MATCH MILL BE CHANGED EVERY 3 MONTHS IS THE BRAIN CHILD OF DUR EDITOR. DISCLESATOR REPORTS OF THE CANDING SECTION OF THE SECTION OF THE PROPERTY OF T ROBERT OF CHARLES OF CHARLES OF CHARLES OF CONTINUES OF C EVERLENT PRINTING SERVING SERVING SHEET THERE WITTER, AND WHO CONTINUE TO

DO THE DOB AT A VERY COM COST

CHE "EVENTS ON EMPER THEOLOGY OF BY DICK ZEERS AND SECUEDED HIS SALTMINE HET WITH VERY MAUGURABLE COMMENT FROM THANK THE GIRL CERTIFICALLY PROVED IT TO BE SEE GREAT VALUE, WE WILL HAVE IT TO BE THE THE

BRIAN WELLER ZS2AB THE TA SETHING ELECTRICAL PROPERTY A ROLL MOLITIES INC.

INCOME

DECEMBE TO SHOES ...

EXPENDITURE

OPENING RALANCES AT 1/7/05.		LO DUADE OF SUES SUES	
ORDINARY SAVINGS R 233.75		H.Q. SHARE OF SUBS + ENT.FEE	2605.00
SPECIAL CAUTINGS C EX 33		H.Q. BOOKS H.Q. QSL STAMPS	9.50
SPECIAL SAVINGS R 566.77 TRANSMISSION R 1.01		H.Q. QSL STAMPS	100.00
		ELECTRICITY (LADIES SLIPPER)	141.95
FIXED DEPUSIT REMOME MO	R28 01.5 3	PRINTING OF QSX-PE	485.00
		PRINTING OF LETTERHEADS POSTAGE OF QSX-PE	58.00
H.Q. SHARE OF SUBS H.Q. ENTRANCE FECS	2501.00	POSTAGE OF QSX-PE	175 58
H.Q. ENTRANCE FECS	105.00	POSTAGE MISCELLANEOUS	35 09
BRANCH SHARE OF SUBS	OEO OO	LICENCES ZS2PE/ZS2JAM	30.00
SUCIAL MEMBERS Sins	00 00	AGM AND PARTY CATERING	
ADVERTISING IN OSX-PE	290 00	D.T.E. ADVANCE	369.00
REFRESHMENTS AT MEETINGS	79 90	TYPEWRITER REPAIRS	
SALE OF VIDEO TAPES SALE OF BOOKS	//- /E) :	NAVEX PETROL COSTS	207.20
SALE OF BOOKS	17.00	ENGRAVING OF TROPHY	76.97
SALE OF OSL STAMPS & LOGBOOKS	17.00	ENORHVING OF IROPHY	6.66
SALE DE PARTE DONATER	33.50	FURCHASE OF ANTENNA AND MAST	
SALE OF PARTS DONATED PARTY INCOME	550.20	STATIONERY & ENVELOPES (QSX)	
PARTY INCOME	6.00	COMPUTER LABELS (QSX,ETC.)	111.44
DONATIONS (NAVEX, ETC)	255 .9 7	CRYSTALS FOR RTTY MAILBOX	68.3 2
HOW CHIEKING BALANCE REFUND	4 29	BANK CHARGES ON CHEQUES DRAWN	7.00
U.I.E. REFUND FROM H.Q.	1201 18	REFUND ON VIDEO TAPES(ZS2Q)	30.00
INTEREST ON ALL ACCOUNTS	306.76	HOBBIES FAIR MATERIALS & UTDED	77 43
INTERIM INTEREST ON FIXED, DEP.	72.98	P.O.BOX 462 RENTAL	101 0101
	/ .	CORRECTION	
		55.11.C.1.10.1	.12

5149.35

CLOSING BALANCES AT 30.6.86: ORDINARY SAVINGS R 19.15 SPECIAL SAVINGS R1320.83 TRANSMISSION R 50.00 FIXED DEPOSIT R2072.98 R3462.96

R8612.31

R8612.31

AUDITED AND CERTIFIED CORRECT 2nd SEPTEMBER 1986:

B.A.WELLER ZSZAB CHAIRMAN

D.W.O.WINTER ZS2MC

HONORARY AUDITOR



Instant Printing

9 ST. PATRICK'S ROAD PORT ELIZABETH

TELEPHONE 22614

6001



FOR ALL YOUR COMMERCIAL PRINTING REQUIREMENTS TRY US FOR YOUR QSL CARDS!



THE Engine Rebuilder/ Specialists in Veteran car engines.

3 HANCOCK STREET, NORTH END **2041-543669/0** ASK FOR LEO SMITHIES

HENROSE PRODUCTS (PTY) LID (EDMS) BPK

MANUFACTURERS OF PLASTIC BAGS PRODUCERS OF FRUIT JUICES "ORANG-U-TANG AND "LEKKA LIKS" FROZEN SUCKERS

VERVAARDIGERS VAN PLASTIEKSAKKE VERVAARDIGERS VAN VRUGTE SAPPE "ORANG-U-TANG" EN "LEKKA LIKS" VERVRIESTE YSBLOKKE

TEL. 545470

5-7 EDGAR LANE

NORTH END

PORT ELIZABETH,6001

Computer Park

Rink Street, Port Elizabeth Phone (041) 52-1634

We Guarantee Success

E.P. MUFFLERS YOUR MILD STEEL FLILLY GUARANTEED ALSO: TOWBARS STAINLESS BATTERIES STEEL SHOCK LIFETIME ABSORBERS GUARANTEE 29 EMBASSY STREET, NORTH END, P.E.

little audrey's

BOUTIQUE AND BOOKSHOP

CAPEVIEW SHOPPING CENTRE KABEGA PHONE 307951 AND 305474

YOUR ONE-STOP SHOP FOR:

LADIES DRESSES, SEWING REQUIREMENTS, WOOL, TAPES STATIONERY, BOOKS, GIFTS CASSETTE TAPE DUPLICATING HABERDASHERY, PHOTOCOPYING **Express Number plates** & 'SIGNS'



Tel 54-2834 / 54-1501 / 54 1652

23a De Villiers St

PO Box 2587

Port Elizabeth

North End 6056