

Port Elizabeth Branch of the South African Radio League P.O.Box 462, Port Elizabeth. 6000.



National Call P.E. Repeater Grahamstown Lady's Slipper

145.5 Mhz 145.05/65 145.15/75 145.10/70

ZS2PE

Bulletin: Sunday 08h40 HF: 40m — 7098 KHz VHF: FM-145,700 MHz

JANUARY 1986

Port Elizabeth Branch NOTICE OF MONTHLY MEETING

MEMBERS ARE REMINDED THAT THE MONTHLY GENERAL MEETING OF THE BRANCH WILL TAKE PLACE AT THE SCOUT HALL, CORNER OF RITCHIE CRESCENT AND VAN PLET-TARE PLACE AT THE SCOOT HALL, CORREN OF RITCHIE CRESCENT AND VAN TORTETNBERG STREET, KABEGA PARK ON FRIDAY 17TH JANUARY, 1986, AT 8.15F.M. THIS IS THE FIRST MEETING OF THE YEAR AND WE WOULD LOVE TO SEE YOU ALL. THERE. WE ALSO HOPE TO HAVE A GUEST SPEAKER.

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Committee

CHAIRMAN: SECRETARY: AWARDS:

Brian ZS2AB Marge ZS20B

303498 303498 Gordon ZS2GK 306776

VICE CHAIRMAN: TREASURER: MEMBER ZS20B and ZS2AB.

Lional ZS2Db 321270 Dick ZS2RS 322111 Trevor ZS2AB R21746

In view of the fact that Gordon ZS23K has been transferred to Pretoria it will be necessary to find another member to take his place on the Committee. We would like to take this apportunity to thank Gordon and Joan for all their hard and unsparing work and wish them a safe trip and hope they settle down well in their new home. Keep in touch with us, please Gordon and Joan. If anyone would like to take the vacant position, please let Brian ZS2AB know. =+=+=+=+=+=+=+=+=+=+=+=+=+=



bulletin roster

26th January 2nd February 9th February 16th February Dick ZSORS 23rd February

Brian ZSCAB Lionel ZSCDD Marga ZSCOB Trevar ZSDAL

Daily Dispatch.

AMATEUR RADIO.

MONDAY, JULY 27, 1936.

Great Day for Listeners.

CAPE TOWN, Sunday. (Reuter) - As far as listeners in the subspace of the Town were concerned, Senator Clarkson's address from Durban to been radio experts was unfortunately heavily james by Morse signals. ditions here were very bad with a groat doas of fading. The Johnson or reply to the Minister, however, was particulty clear. The transmit Senator Clarkson and the Post Office and his account of the doings of the Radio League were very clearly heard, as well as his interesting amorphoment of what radio amateurs were able to do in co-operation with the Post Office in case of war or emergency.

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East London's greetings to the Minister and also Mossel Bay were electwith a good deal of fading.

On the whole, the request to radio listeners to keep silence during this radio ceremony was well observed until about ten elclock, when appears of Mossel Bay and Bloemfontein had no effect and there was a regular radio rugby scrum on the air. It was a splendid and interesting experiment and a great day for radio amateurs.

(This article appeared in the Daily Despatch of East London, dated Memory 27 July 1936. Sometimes it seems as if the rugby serum hasn't disappeared yet! Many thanks to Lionel ZS2DD and his daugnter Clare for this article)

THIS and THAT



Heartiest congratulations to $\underline{John\ Masters}$ who was successful in passing the November P.M.G. exam and also to $\underline{Brin\ Archer}$ who also passed the P.M.G.

exam and succeeded in passing his Matric at the same time. Brin will be studying for an Electronics degree at U.C.T. this year. We wish you much success.

CONGRATS We really have some tip-tip Branch members! Out of the list of those who did well in the Code Proficiency Award, seven were members of P.B. Branch and we congratulate Garth ZS2HB and Percy ZS2RM for 35WFW; Charles ZS2PA for 25 WPM; Hugh ZS2RB and Barry ZS2DT for 20 WPM and Rudy ZS2EE and Beaven ZS2RL for 15 WPM. Well done!

Congratulations are also extended to <u>Werner ZR2CY</u> and Rene Ahlers of Uitenhage on the recent engagement of their son and to <u>Waldie ZS2WM</u> and Margaret Bartie on the engagement of their daughter.

For several weeks, the Sunday morning Branch bulletin has been repeated on a Monday evening at 8p.m. on 3640 KHz. There have not been too many reporting in but we do know that several people are listening. Members have also been away on holiday, so we are going to give it a further trial for a few weeks to see if it is worthwhile. We would like to provide a service for members and other listeners who are unable to listen on a Sunday morning because of Church commitments and also for those who enjoy a lie-in to recover from their hard activities of the week. Report in on Ladies Slipper if you can't transmit on 3640 kHz!



We take this opportunity to wish all members of the Branch and the League, Council and office staff and all families a very happy, healthy, prosperous and peaceful New Year.

ELEVEN WAYS TO KILL YOUR BRANCH.

- 1. Do not go to the meetings.
- 2. If you go, arrive late.
- If the weather is good, say: "It is too fine an evening to be sitting cooped up inside"...then watch TV.
- 4. If the weather is bad, say: "I can't go out on a night like this"and then watch TV.
- If you do attend the meeting, find fault with the work of the Committee and all the others.
- 6. Never accept an office as it is easier to criticise than to act.
- 7. Complain loudly if you are not appointed on the Committee, but if you are, do no attend meetings, especially Committee meetings.
- 8. If asked by the Chairman to give your opinion regarding some important matter, tell him you have nothing to say. Bore the backside off everyone later at the tea break by telling them exactly what should have been said or done.
- 9. Do nothing more than is absolutely necessary. When other members roll up their sleeves and willingly use their ability to help matters along, howl that the Branch is run by a clique.
- 10. Having elected your Chairman and Secretary, begin telling them they are a couple of power-mad careerists.
- 11. When asked to argue for some difficult action, refuse to do so on the grounds that the members are too apathetic.

MINUTES OF THE GENERAL MEETING OF THE PORT BLIZZABETH BRANCH OF THE SAME AFRICAN RADIO LEAGUE HELD AT THE SCOUT HALL, VAN PLETTENBERG STREET, HORT ELIZABETH ON FRIDAY 15th NOVEMBER, 1985.

PRESENT: 32 members and visitors.

FINANCE:

GENERAL:

APOLOGIES: ZS2BK, RB, RL and ZR2EM, EY, L, CY and BL, and ZS2RS and MM.

The Chairman extended a welcome to all and especially to the ladier. Special mention was made of Fred ZS2EQ whom we hadn't seen for a Torre time and who had rejoined the Branch; to Cor ZS200, Owen ZS202. Ron sermed who had recently passed the cw test; to John ZS2JR and especially to Yes 2007 who was celebrating the 50th anniversary of his Amateur ligens.

The Minutes of the General Meeting held 18th October, 1904, MINUTES: having been circulated and published in QSX-PE were taken has read, proposed by Bill ZSRBY and seconded by Trever MSRAM.

(1) The library was operational and members could borrow books. ARISING: (2) The boxes of component. were still available for the component wished to look through them, and anything left thereafter would be given to the Scouts.

(1) In view of the absence of the Treasurar there was no experi. (2) The Branch had been mesting in this hall for one year that a further rent payment was due. (3) The question of electricity accounts for the Jadler Clipse alose. Dick had spoken to SALL who were maying frie their two hat and had invited us to join them, and make as not there thereity. The antennae in illist s were acceptable but this would

be looked at more closely and would of course by an a contract

(4) The Town repeater was still on its original site, as there had been no clearance yet from SAF. We will move when they have finished moving their equipment.

(1) The misunderstanding rellicences for the Navex had been cleared

Council minutes and several branch newsletters. CORRES:

up. Garth ZS2HE had subsitted the motion for the 1986 AGM. This up. Garth ZS2MS had subsitted the motion for the 1986 AGM. This was seconded by ZS2GK. Thanks were extended to Narth. Bill ZS2BY questioned whether it would be a received libenes, allowing ZBs to operate, but it was said that the PMS would subpulate libened amateurs, and it was decired that he encomment be made.

(2)Another donation of a LX4C testion with VFO and nike had been made by Errol 12 vendall and it was noted to build up a station that could be loaned to now 12 encous for their period of my operation.

(3)Horman ZS2RI had donay do the for two spections of his 4 feat tower and this would be sed for the locals only erreater what tower and this would be sed for the locals only erreater which is a could be remained. Sower merrons of the Research of the locals could be repaired. Sover members of the Branch offered in the Halr to remove the tower.

(4)Sordon ZS2GK mentioned that soveral items of agairment red learn stolen from his shack and wasked members to be on the letter of the in-(r) Lt was mentioned that the France bulletin would be recommitted on Monday evenings at 8p.m. on 3640 kir to enable those which we not able to listen in on Sundays to keep up with the news. Incre will be an informal ball-in afterwards. (6) It had been decided not to have a Christmas party this year for

several reasons; there were too many functions, prices were too high, and most venues ware too looked up. A get-together would be hold early in the new year.

(7) There would be no meeting in Determer.

(2) The childrens Christman Tree Party would be held at the name venue as last year on Sprday Sti. Devictor. There would be a venue as last year on sureay of L Derinter. There we was the charge, but parents would bring the slide and a place of sit.

(9)978 and Beta tapes were available at very good price of l and the money was used to offset the printing costs of QSX-1.

(10)The Chairman mentioned that an item in the Council situate had come to his attention. He felt that the action taken by the

President in instructing office state that no further action of taken regarding H.Q. membership was incorrect as the motion and been approved at the 1985 League A.G.M. and could only be rescinded by an A.G.M.

(11)The question was raised as to whether the Mailbox could be operated on the Grahamstown repeater once a month to allow several other amateurs to make use of the facility. A new set of crystals and a second oscillator would be needed and authorisation was got from members to spend R50 on the crystals. It was felt that users should call on the Mailbox frequency and then QSY to a simplex frequency. Viv ZSZVM asked if the Branch could not purchase a synthesised rig and it was stated that if a good second-hand rig could be obtained this might be possible but at present day prices a new one was out of the question.

(12) Members were reminded of the Field Day competition due to take place on 16th. This would take place at the QTH of Julian Lucas near Lake Farm and would start at 10a.m. Dick ZS2RS offered the use of his beam and rig and members were asked to help with the setting up of the station at 8a.m. The following offered their help: ZS2AE, RL, GK, WG, EK, AB, OB, AO, RS, DD, RT and Bill Hodges. (13) A question was raised from Phil ZS2NP in East London as regards the adverts in Radio-ZS. He wondered if these were divulged to Cape Town members prior to publication as members outside of the area seemed to have difficulty in obtaining anything from Hamads. He also felt that it would be a saving of money if QSL cards could be sent to each Branch and members then picked them up from Branch meetings. Buck ZS2RM also felt that cards should be received much quicker from HQ and it was suggested that he send stamped, self-addressed envelopes to HQ for return of his cards.

(14)There was speculation as to whether the PMG would supply a list of the names and addresses of candidates who had written exams so that these could be encouraged to join the League. It was felt that most candidates were already League members and that there were few independants.

(15)Buck ZS2RM queried as to how often the callsigns, names and addresses were forwarded to the publishers of the World callbooks as it seemed to take several years before corrections were made.

There being no further business the meeting was closed and tea was taken. Colin ZS2AO then demonstrated an SSTV tape and Bill ZS2BY gave a very interesting and informative talk on Sunspots and Propagation. Both were very well received.

sgd: B.A. Woller ZS2AB Chairman sgd: M.T. Weller ZS20B Secretary

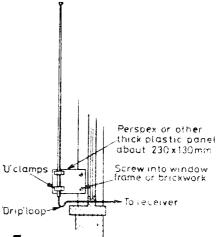
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THAT'S LIFE: To help myself to keep to my diet, I had hung a sign on my fridge reading: "Don't live to eat but cat to live." One day when I came home, I found the fridge empty and another sign on the door: "Whatever is worth doing, is worth doing well".

Antenna Basics

For the flat-dweller, often without access to a roof or loft space, the only answer may be a vertical rod aerial 3 or 4m long, made from aluminium or copper tubing. An a.t.u. is essential here to bring the aerial to resonance on the various bands. Being very short this aerial will perform better on the higher frequency bands such as 10 and 15m. A commercial whip aerial, with a base-mounting insulator, of the type intended for mobile use can also be useful in this situation.

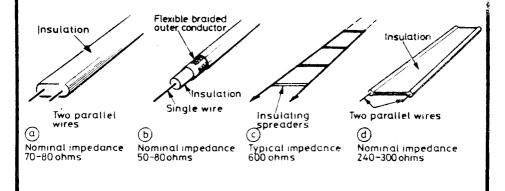


Rods and Whips

Feeders

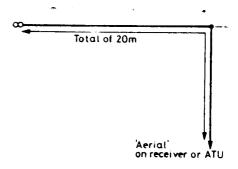
Since the aerial should be located in the clear and generally as high as possible to produce maximum signal strength it is necessary to use a feeder to connect the aerial to the receiver. Low impedance

feeders may be flat twin (a), coaxial (b) or flat ribbon (d). High impedance feeders consist of two wires spaced apart by insulators every foot or so (c)



Long Wire

A long length of copper wire, with one end connected to the receiver, is probably the most commonly used aerial. For best results it should be erected out of doors. The inverted "L" aerial is a good all-round performer especially if the vertical section can be 7m or more long. If the overall length is around 20m it will function well on the amateur bands without an aerial tuning unit but an a.t.u. will make it even better. The combination of horizontal and vertical polarisation will help with DX signals where the received signal's polarisation can vary considerably from minute to minute.

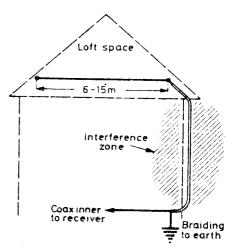


Indoor Aerials

A long wire aerial can be erected in restricted loft spaces and inside roofs even if it means draping it round the rafters! If electrical noise is a problem then the lower part of the aerial can be a length of coaxial cable with the outer screen connected to the receiver chassis or earth.

A similar aerial can be strung around a room, and even quite a small room will enable a 12 metre length to be used.

One convenient form of aerial can be obtained by using the coaxial cable of a TV aerial, the outer braiding being connected to the aerial socket of the receiver. Important!—disconnect the TV aerial from the TV set before using it in this form.



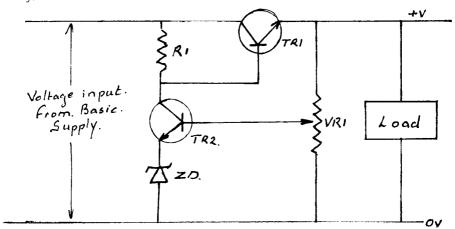
HOME CONSTRUCTION SUPPLY

(Continuation of article byViv Moore ZS2VM).

VARIABLE VOLTAGE POWER SUPPLY

In the first part of this article we talked about a fixed voltage stabilised power supply, which we now extend to a variable voltage supply with a feedback control.

Figure 6



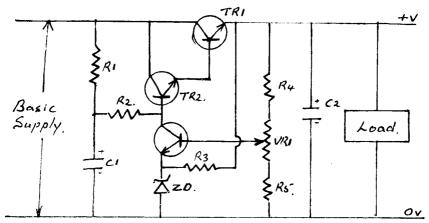
In figure 6 the base voltage of TR1, and therefore the output voltage, is controlled by the voltage developed across R1. This is due to the current drawn through the resistor by TR2. TR2 in turn is switched on by the voltage applied to its base through VR1.

When VRl slider is turned to the Ov end, TR2 will be cut off. As there will be no current flow through Rl the voltage across it will virtually be nil and TRl will be switched hard on. If on the other hand the slider of VRl is turned to the + v side, TR2 will be hard on, there will be maximum current drawn, causing a high voltage across Rl which will switch TRl off.

Looking at the whole circuit, the feedback maintains the output voltage, set by VRl. If the output voltage drops because of a high load the voltage on the base of TR2 will drop causing a reduced current flow through Rl resulting in a lower voltage drop which in turn sets the base of TRl more positive and brings it harder on restoring the output voltage. If the output tends to rise the reverse happens.

So much for the theory, lets look at a practical circuit.

Figure 7



TR1	2N3055		R1	3,9K
TR2	2N3054		R2	470
TR3	2N3053		R3	3,3K
ZD	3,9v		R4	560
C1	50mfd 25v		R5	l,2K
C2	5mfd 25v		VR1	4,7Klin
Mount	2N3055 on a	heat	sink.	

What Has Changed?

The resistor Rl from figure 6 has been split into Rl and R2 in figure 7 and a capacitor Cl from the junction to ground is included. TRl has TR2 added turning it into a super alpha pair. R3 is an addition as well as R4 and R5.

The capacitor Cl is added to reduce the ripple that may be introduced by the basic supply. It couldn't be connected directly to the collector of TR3 because it would dampen any voltage change across the resistor thus affecting the regulation.

The increased gain produced by introducing TR2 improves regulation and ensures that TR1 reaches its full potential.

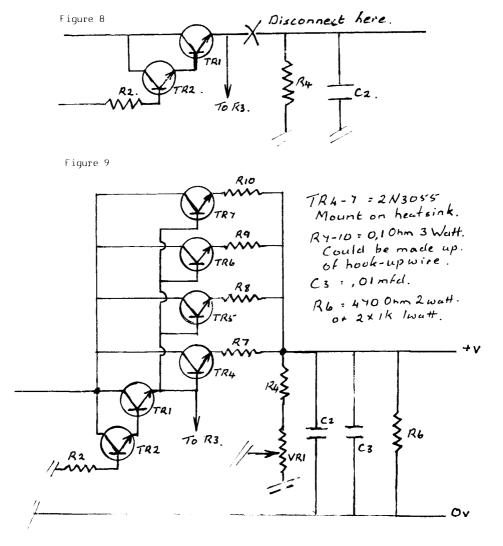
The resistor R3 increases the current flow through the zener diode to bring it to a more positive regulation point.

Resistors R4 and R5 set the control point to cover the required range and also allow a full swing of the potentiometer making the adjustment less sensitive.

This supply can be comfortably used to 5-6 amps at voltages from about 5v to nearly the basic supply voltage.

The current handling capability can be considerably increased by adding a number of 2N3055's connected in parallel. The collectors are connected together, the bases together but each emiter gets a 0,1 Ohm resistor in series before being connected to the output. Two additional transistors will increase the output to about 15 amps and each further addition will safely add 7 amps. Of course one must ensure that the basic supply is capable of handling the increase.

The circuit should be disconnected at the point indicated in figure 8 and reconnected as shown in figure 9.



HALLEY'S COMET

Follow is a table of corrected figures for spotting Halleys Comet. John ZS2JR apologies to all those who rave been looking in the wrong direction! The figures in the previous table were all right if you were sitting in a boat in the middle of the South Atlantic Ocean. (Thanks, John. We wondered why our feet were getting wet!)

-	EIGL	IDEC DI OTT	CO DCINC	HIDDODGO	CTAD CC	EKED DOOCDA	N ON COM	00005 64		
FIGURES PLOTTED USING MIRRORSOF STAR SEEKER PROGRAM ON COMMODORE 64 HOME COMPUTER.										
	DATE: OOPM:	DIST.TO SUN	: DIST.TO : EARTH			: RIGHT :ASCENSION			:RISES	: :
		AST.UNITS	:AST.UNIT	: NORTH	: HORIZON		•	BRIGHT- : NESS	: :	SETS :
	NOV :			:			:	:	· !	·
	15TH :	1.71	.73	49.7	15.1	3h53m	21,54'	8	19.31	05.32
	30TH :	1.49	.63	356.0	41.9	1h10m	14.40'	7	15.26	02.15
	15TH :	1.26	. 84	301.0	32.2	23h14m	3,28'	6	12 01	23.46
	30TH:			277.0:		:22h20m	: -1,-1'		09.54	
	JAN : 15TH :	.79	: : 1.41 :	: : 260.0:	-4.6	: :21h46m	: : -5,-23'	: 4	: :08.08	: 20.40:
	30TH :	.62	: 1.56 ;	245.0:	-19.8	:21h2Om	: -8,-13'			19.23:
	FEB : 15TH :	.60	1.49	223.0	-32.4	: ·20h51m	: :-12,-6'	: : : : : : : : : : : : : : : : : : :	04 52	18.01:
	: HT85	.72	1.27	202.0:			:-16,-9'			16.59:
	4AR : 15TH :	.93 :	.92	175.0:	-32.8	10657	. 22 14	: ;	01 21	16 61
	30TH :		.55 :	149.0:	-9.8		-22,-1': -37,-10':	: 4 : : 5 :	22.16:	15.51: 14.28:
F	APR :	:	:	:	:	:		:		:
	3RD : 7TH :	1.22 :	.48 :	142.0: 134.0:	-2./:	17h43m :	-42,-42':		20.36:	13.49:
۱	OTH :		.43 : .42 :	128.0	33.2		:-46,-59'; :-47,-14';		16.56	12.42
	2TH :	1.36 :		123.0	42.8		-45,-30':	5 .	16.09	
1	5TH :	1.41 :	.45 :	114.0	56.3:	13h06m :	-40,-47':	5 :		08.15
	8TH :			101.0:	67,5:	12h20m :	-35,-10':			06.48
	: 1ST		.56 :	78.0:	75.6:	11h47m :	-29,-52':	٠.	14.33:	
_	4TH :		.63 : .71 :	40.0:	79.1 : 77.6 :		-25,-21';		14.15: 13.59:	
	OTH :		.71 :	342.0:	74.0:		-21,-39'! -18,-40':		13.45	
J	0111.	1.05	.00 :	342.0:	. /4.0:	1003/M :	-10,-40':	ა :	13.43	03.37:

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BRANCH TROPINES: Full details will be given in next month's QSX-PE of the trophies to be awarded by the Franch at the A.G.M. in September. There trophies for home construction, working dx, VHF achievements and a DF trophy. Maybe you would like to work towards winning one of these?



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