

JULIE 1995 JULY



watts

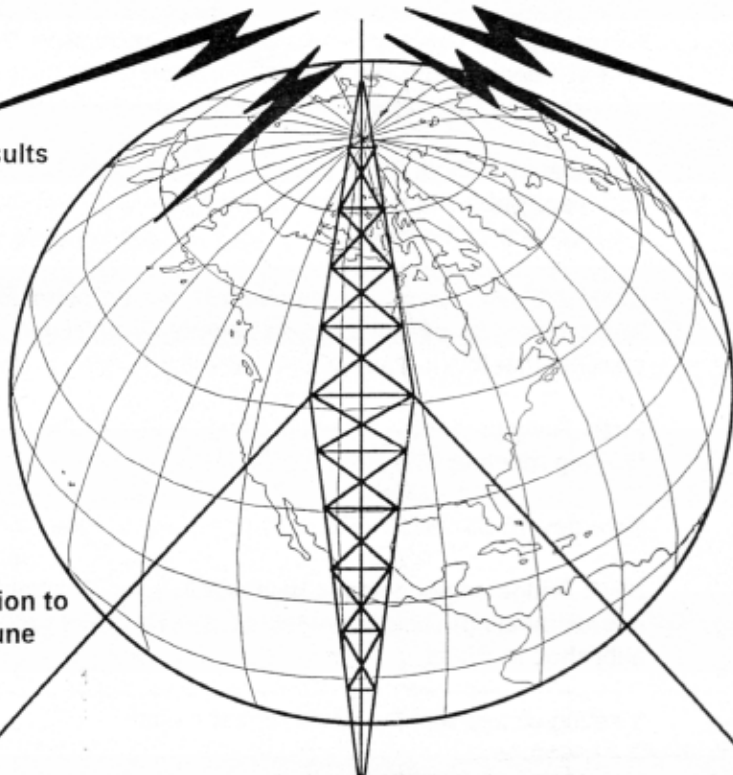
SA RADIO LEAGUE
PRETORIA BRANCH
P.O. BOX 1259
PRETORIA 0001

ZS6PTA

Inside:

RAE Results

Conclusion to
RF Immune
Power
Supply



**MINUTES OF THE 10TH BRANCH MEETING OF THE 66TH
YEAR HELD AT THE CLUBHOUSE PREMISES, UNIVERSITY
OF PRETORIA SOUTH CAMPUS ON 8 JUNE 1995**

Present	Members and visitors as per attendance register.
Apologies	As per attendance register
Welcome	Guest speaker Carel Ahlers, members and visitors.
Minutes	The minutes of the previous meeting were accepted and signed. Proposed by Basjan ZR6BW and seconded by Bill ZS6KO.
New Members	Mannie Cajada ZS6AKX and Pieter Gast ZS6FD.
DF Hunt	No direction finding fox hunts to take place in June and July.
Demonstration	Guest speaker Carel Ahlers gave a most impressive Physics/ Science demonstration with plenty of sparks and bangs. Thanks go to Carel Ahlers for his enlightening demo.
Subs	The chariman Tjerk ZS6P spoke about the necessity of the increased subs and stressed the importance of maintaining membership of the league.
Rallies	<p>Callie ZR6ADL reported good comms on the Castrol Rally. Rally scoring by packet radio was briefly discussed. It is possible that this method of scoring will be used in future.</p> <p>Sasol Rally preparations well in hand for the 23-24th June. Briefing meeting was arranged for the 19th.</p> <p>Saturday 10-06-95 East Rand Winter Rally to take place.</p>
Projects	<p>SWR Bridge components to be available soon (Probably next branch meeting). The circuit and other details will be published in Watts</p> <p>Meeting closed with the usual refreshments</p>

RULES FOR THE SHACK.

1. Obtain Permission to operate the equipment from the shack manager.
2. The operator/operators to enter their name and callsign in the operators book.
3. Operate under the rules and regulations in terms of your licence.
4. Keep the logbook up to date at all times. Filling in the QSL cards for ZS6PTA and the sending of the cards to the bureau is the responsibility of the operator.
5. Report any equipment that is faulty to the shack manager.
6. Disconnect all equipment after operation, such as antennas and power supply.
7. Clubs must obtain permission before their meetings to operate, this will save time and aggravation for both of us.
8. The operator must be a member of the Pretoria Branch.

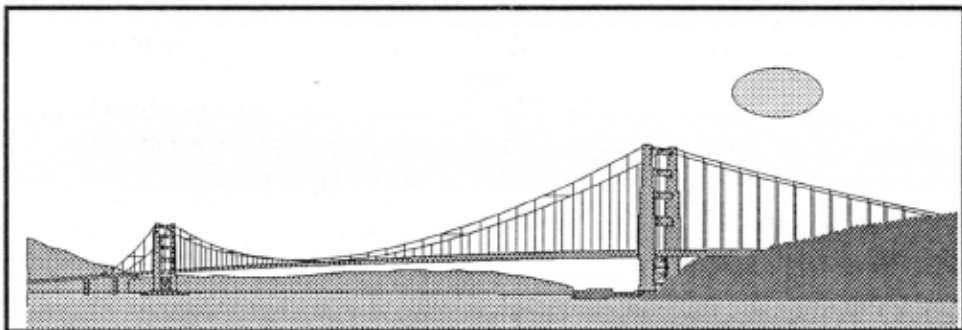
NOTE:

The above rules become necessary in order for us to keep a check on the shack and the equipment. In **NO** way is it our intention to hinder you and spoil your fun in the shack. In fact we would like you to make more use of the shack. To all concerned, enjoy the shack.

Don Milner ZS6AQS

Shack Manager

Tel: 47-1377 not after 21:00 SAST



AWARDS

This month some African awards, not many countries of Africa issue awards and below are the details of the only African awards I could find, excluding South Africa. If anyone knows of others please let me know.

GABON.

A.G.R.A. Series. General Requirements: Minimum report of 33 or 339. GCR list and 10 IRC's fee for each award to be sent to: A.G.R.A. Diplom Manager BP 1826, Libreville, GABON.

DDG1.

Confirmed QSO's with eight different TR stations, any mode, any band.

DDG2.

Confirmed QSO's with 12 different TR stations, any mode on at least 3 HF bands.

DDG Special.

One confirmed QSO on each of 5 different HF bands with at least two bands out of the three lower bands.

KENYA.

Sponsored by the Radio Society of Kenya and awarded to any amateur who earns 10 points by contacting 5Z4 stations as follows: Each 5Z4 member of the RSK = 2 points; any contact with the club station 5Z4RS = 5 points. All modes or bands may be used. Contacts after 31 Dec. 1977. Enclose a addressed label with your application. DO NOT SEND CASH, bank draft or 15 IRCs to: Awards Custodian, R.S.K., PO Box 45681, Nairobi, KENYA. Write "KENYAN AWARD" in the top left hand corner of the envelope you mail.

MOROCCO.

A.R.R.A.M. Diploma.

Sponsored by the Royal Association des Radio-Amateurs du Maroc (ARRAM), the award may be earned by contacting any 10 CN8 stations plus an obligatory QSO with CN8MC. GCR list and fee of 15 IRCs to: ARRAM, 12, Rue Ahmed Arabi, Agdal-Rabat, Morocco, Africa.

NIGERIA.

Requirements: GCR list is acceptable if signed by official. ALL contacts after 1st October 1980. FEE for each is 10 IRCs or \$4US. Apply to: Award Manager, PO Box 2873, Lagos, Nigeria.

Nigerian October Award (NOA).

Work 5 different Nigerian stations during the month of October. The prefix of every Nigeria station during that month will be 5N plus the anniversary year, eg. 5N5ABC becomes 5N27ABC. SWL OK.

Worked ALL Nigerian Zones Award (WZN).

Work one station in each of the 10 call areas in Nigeria.

Outstanding Nigeria DX Award (5NDX).

Work 5N stations to qualify for different levels of this award.

5NAAJ counts as 5 stations. YLs count as 2 stations, clubs count as 2.

1st CLASS work 100 5Ns, 2nd CLASS = 50, 3rd CLASS = 20.

Work one station from each of the states of the Federal Republic of Nigeria.

There are 19 states and 1 Federal Territory. States within call areas are shown below:

5N0 - Lagos & Fed.Terr. Abuja.

5N5 - Imo and Cross River.

5N1 - Ogun and Oyo.

5N6 - Benue and Plateau.

5N2 - Kward and Niger.

5N7 - Bauchi and Gongola.

5N3 - Ondo and Bendel.

5N8 - Bornu and Kano.

5N4 - Anambra and Rivers.

5N9 - Kaduna and Sokoto.

SENEGAL.

Senegalese Award.

Contact 5 different 6W stations in Senegal. SWL OK. GCR list or photocopies of the cards and fee of 10 IRCs to: A.R.A.S., Award Manager, PO Box 971, Dakar, Senegal, WEST AFRICA.

The latest Pretoria Awards issued are as below:

CERT#	DATE	CALL	NAME	QTH	152
05/05/95		EA8SH	FELIX	CANARY ISLANDS.	
153	20/06/95	ZR6BW	SEBASTIAN	PRETORIA (member).	
154	20/06/95	ZS6WGH	BILL	PRETORIA.	

Applications for the new 5 HF BAND AWARD are starting to come in, send your application soon for this award if you would like to be in the TOP TEN. It is a very attractive award and I'm sure it will be very popular. Lots of members have expressed interest in the PRETORIA AWARD but just have not applied, it will take five minutes to write the application and you can receive your cert. at the branch meeting, (free of charge). That's all for now let me know if there any countries awards you are interested in as I have application forms for some and a fair amount of information.

BEST 73s & GOOD DX-PAPERCHASING,

de

Don ZS6CRT (PTA AWARDS) :+)

RAE RESULTS

Name	RegGrade	TechGrade	AveGrade
Aucamp, Jakobus Mattheus	B	A	B
Bezuidenhout, Renate	A	A	A
De Bruin, Edward Henry	E	C	D
de Bruyn, Johannes hendrik	B	C	B
Dormehl, Schalk	D	C	D
du Plessis, Petrus Jacobus	B	B	B
Eksteen, Michiel Reyno	C	C	C
Fourie, Hendrik Johan��es	D	D	D
Holtzhausen, Barend Jacobus Phillipus	E	C	D
Hugo, Karin	B	C	C
Joubert, Jacobus Johannes	D	C	C
Keyter, Charl Anton	D	C	D
Le Roux, Henk	A	A	A
Meyer, Kevin	A	E	C
* Mistry, Sanjay Chhaganlal	C	B	C
Nel, Lukas Marthinus	C	E	D
Oosthuizen, Nicolaas Gerhardus Johann	C	C	C
Oosthuizen, Rudolf Johannes	C	B	C
* Peer, Molly Margaret	B	D	C
* Pistorius, Johanna Maria	C	D	D
* Ramchunder, Rajesh	B	A	B
Reynders, Dirk Eduard Chris	A	A	A
Roos, Johannes Jacobus	D	B	C
Schneider, Rudolph Maximilian	D	B	C
* Schwartz, Sunnette	A	B	A
Senekal, Salomon Adrian	A	A	A
Spies, Johannes Jacobus	B	B	B
* Stott, Stephen	E	C	D
Taljaard, Gerhard Uys	A	A	A
Terblanche, Johannes Etienne	A	A	A
Van der Hoek, Robert Johannes	A	B	B
Van der Merwe, Wilna Louise	C	C	C
Wellington, Stephen frank	D	B	C
* Yelverton, Deryck	B	B	B

Congratulations to all those who passed!!!

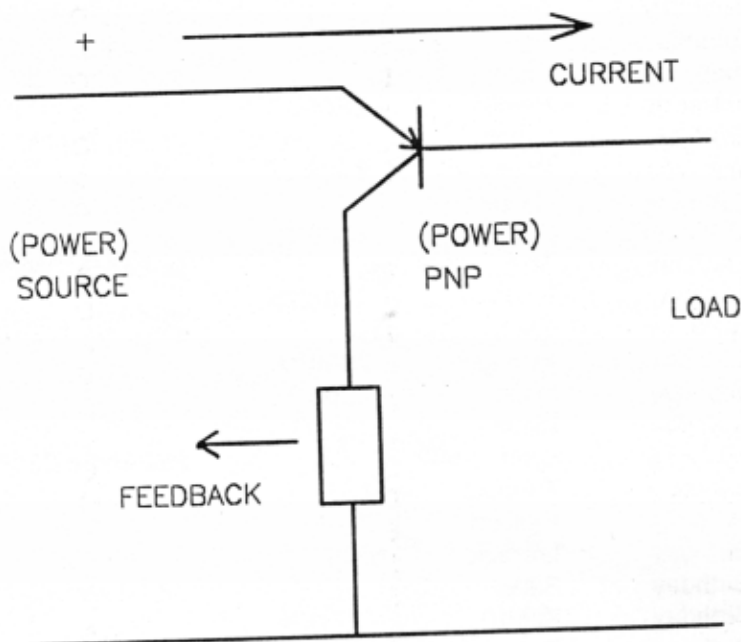
Well Done Viv for the excellent classes!!!

A USEFUL IDEA

HANS ZS6KR

The circuit below has been used in remote and vehicle applications.

It uses a transistor the wrong way round resulting in some useful properties:



Any base current flowing as shown will feed the load (unfortunately with some 0.6-1V drop) but at the same time pull up the collector which can then drive another load or feed back information to the source.

When using a large PNP such as the plastic 2955 type, as much as 5 Amps of base current is allowed.

We now thus have a current-flow sensor that works from a few milli-amps to at least 5 Amps.

Also when the output terminal is grounded via a resistor the indicator will again function so we can signal backwards into the source.

Such a circuit is thus useful as a current flow, current leakage or open-circuit indicator in remote load applications where supply stability is not that critical.

BIRTHDAY AND ANNIVERSARY LIST OF CURRENT SARL PRETORIA MEMBERS

JULY	Occasion	Name	Callsign	Details/SW
01	Birthday	Victor	ZS6VG	
01	Birthday	Craig		son Gordon ZS6AGV
01	Birthday	Peter		son John ZS6CDI
02	Birthday	Elizna		SW Johan ZS6JHS
05	Birthday	Neville	ZR6AJG	
05	Birthday	Lynette		dtr Bill ZS6KO
06	Annivers	Paul	ZS6BMF	Julie
06	Birthday	Helen		dtr Roy ZS6XN
07	Birthday	Ray	ZS6BIG	
07	Birthday	Gert		son Alida ZS6-227
09	Birthday	Herman	ZS6-228	
09	Birthday	Chris		son Gideon ZS6BZT
11	Birthday	Ignatius	ZS6IPM	
13	Birthday	Doug	ZS6BCK	
15	Birthday	Filipe	ZS6LQ	
17	Birthday	Lynn		SW Andre ZS6BRC
18	Birthday	Thomas	ZS6AJD	
18	Birthday	William	ZR6ZD	
18	Birthday	Lorraine	ZR6SUJ	
18	Birthday	Sarel		son Alida ZS6-227
20	Birthday	Keith	ZS6BGI	
20	Birthday	Roy	ZS6XN	
21	Birthday	Kevin		son Gordon ZS6AGV
21	Birthday	Madelein		dtr Gideon ZS6BZT
22	Birthday	Ria		SW Peter ZS6PJ
22	Birthday	Rozanne		dtr Tjerk ZS6P
25	Birthday	Rob	ZR6CAD	
25	Birthday	Anna	ZS6-229	SW Gerrit ZS6PA
25	Birthday	Justin	ZS6-262	son Errol ZR6VDR
26	Birthday	Frank	ZS6GE	
27	Birthday	Sebastiaan	ZR6BW	
27	Birthday	Julie		SW Paul ZS6BMF
28	Annivers	Frank	ZS6GE	Pat ZR6AVC
29	Birthday	John		son Don ZS1ADJ

AMATEUR RADIO WORDSEARCH PUZZLE, BY AA6DX

P U Z Z L E

J	A	N	C	H	O	R	U	B	E	A	R	I	N	G	K	A	Y	M	M
J	D	D	W	I	Y	S	T	Z	R	A	R	L	D	O	O	S	C	A	U
C	S	N	Q	D	Y	I	J	L	G	D	C	A	H	W	H	F	S	J	O
N	P	U	A	T	D	S	N	T	E	I	U	Z	L	E	X	T	P	R	U
U	U	L	W	T	W	D	R	S	N	B	X	T	I	U	N	N	E	T	N
U	K	Z	Q	L	S	E	B	W	U	I	Y	G	W	W	B	L	Z	W	Q
Z	N	L	F	O	V	E	Z	A	C	L	H	T	A	W	O	U	E	Q	O
T	A	T	J	O	J	A	E	Q	S	T	A	M	E	P	O	L	T	K	O
V	R	V	D	X	P	N	U	R	S	E	L	T	N	F	B	T	S	V	Y
I	C	L	V	M	K	V	B	B	F	C	G	I	O	M	A	C	O	M	Z
E	O	W	R	X	U	Z	X	K	R	V	G	D	I	R	S	S	U	L	E
F	S	G	N	E	A	K	G	G	J	R	X	H	S	K	S	B	T	Y	R
N	U	U	X	Y	W	G	I	R	V	G	T	G	D	E	G	N	I	H	I
M	N	O	G	B	R	O	F	G	E	O	N	D	A	O	L	D	N	I	W
D	O	I	S	U	H	A	T	L	O	V	J	A	T	A	B	L	B	E	Y
X	K	P	Z	S	H	N	G	X	L	O	K	Q	F	B	I	U	P	O	U
C	C	R	I	S	G	Y	Q	G	O	B	D	Q	U	D	H	Y	V	K	G
V	E	T	N	U	W	E	V	S	U	G	F	Q	E	I	R	B	Q	Z	V
L	X	Y	V	R	M	A	F	G	H	P	N	O	I	T	C	E	S	Z	V
S	O	G	S	T	V	I	F	W	V	C	E	T	G	B	U	X	L	K	H

C L U E S

SECTION
GINPOLE
BASE
THIMBLE
INSULATORS
HEIGHT
WINDLOAD
LEG
MAST
CRANKUP

TOWER
TRUSS
GUYWIRE
FOLDOVER
FREESTAND
ANCHOR
TUBULAR
BEARING
HINGED
SAFETYBELT

Find all the words having to do with towers in this puzzle! Be sure to look in all directions, backwards and forwards!

RF IMMUNE POWER SUPPLY (PART 7)

Quoted from "Elector Electronics" magazine - December 1994

Start by fitting feed-through capacitors to the supply leads to carry the supply voltage into the power amplifier - this is much more effective than fitting decoupling capacitors in the power supply. In addition to this measure, the supply cable may be wound two or three times on a ferrite ring core, close to the PA case.

Unless you are using a handheld, it is bad operating practice to have an antenna in the immediate vicinity of a transmitter, a power supply, and most importantly, yourself. At present there is a hot debate between several parties regarding the alleged dangers of high RF power levels near the human body. Since at present it is not at all clear what the effects of this type of radiation are, it is best to play it safe, and locate the antenna at a safe distance. More information on this issue may be found in recent issues of several ham radio magazines.

Adjustment.

Change R4 by trial and error until the output voltage of IC1 at terminal K1 is 13.8V [or any other value you may require]. Next, adjust the output voltages of IC2, IC3 and IC4 to give the same value. This is done by carefully turning the respective presets, P1, P2 and P3. Connect a wire pair to each output and join the pairs at the load. A dummy load that draws about 5A should be used, although this is not critical. Now check if all the regulators supply roughly the same current by measuring the the voltage drop across their positive output wires. The drop should be in the order of 100mV at an output current of 10A, and 50mV at a current of 5A. On the prototype, the voltage was between 70mV and 80mV. The voltages may be made equal by careful adjustment of the presets.



ALL MEMBERS PLEASE NOTE:

The AGM is approaching very rapidly. We request that all outstanding trophy's be returned to the branch at the next branch meeting. Also note that for some of the awards, nominations are requested from the members, eg. the HF and VHF awards

SARL Pretoria Branch Committee 1994 / 1995

			<u>HOME</u>	<u>WORK</u>
Chairman	Tjerk Lammers	ZS6P	87-1079	379-4251
Vice Chairman	Viv Prince	ZS6BZS	45-5417	
Repeater	Tinus Lange	ZS6TL	64-1487	
Rallies	Tinus Lange	ZS6TL	64-1487	
	Thys Smit	ZR6AHY	87-2003	(011) 881-1966
Secretary	A. du Pisani	ZR6RY	57-3722	420-3721
Treasurer	John Airey	ZS6CDI	83-5570	
OF Hunts	John Airey	ZS6CDI	83-5570	
	R. Boulanger	ZS6ARC	664-4288	
RAE Classes	Viv Prince	ZS6BZS	45-5417	
Flea Market	Richard Peer	ZR6CK	333-0612	836-2387
	Hansie Meyer	ZS6AIK	333-8541	327-2891
Projects	Paul Straub	ZS6BOO	87-2076	803-5000
Clubhouse	I. Billingham	ZR6ICE	43-7007	450-2572
	R. Boulanger	ZS6ARC	664-4288	
Shack	Don Milner	ZS6AQS	47-1377	
Social	Hansie Meyer	ZS6AIK	333-8541	327-2891
	Richard Peer	ZR6CK	333-0612	836-2387
Auditor	Callie Pistoruis	ZR6ADL		420-2946
Awards	Don Blackburn	ZS6CRT	98-2271	98-2620
Hamnet				
Watts Publisher	Richard Peer	ZR6CK	333-0612	836-2387
Watts Editor	Edwin Peer	ZR6ESP	333-0612	
		FAX (Richard ZR6CK)		836-2378

Bulletins transmitted after HQ bulletins on Sundays at approx. 8:45.

HQ bulletins are transmitted at 08:15 to approx. 08:45 and relayed on 145,725 mHz.

Frequencies:	2m:	145,725
	20m:	14,180
	40m:	7066
	80m:	3700
(Winter)	160m:	1,840

Please stay tuned to these frequencies for the duration of the branch bulletin.

AMATEUR RADIO: The hobby for Radio Experimentors and those who like to fiddle with Electronics, Computers or Communications.

Agenda.

Monthly Meeting

The branch meeting will be held at the South Campus of the University of Pretoria.

Time: 19.30 for 20.00

Date: 13-07-95

1. Official Business & General
- 2.
3. Ragchew
4. End of Meeting
5. Refreshments and tea/coffee will be available

DATES TO REMEMBER

Ladies Net

All licensed ladies are invited to join in on the ladies net at 20:00 on the 725 repeater on Thursday nights.

General technical discussion evenings

Continue on the first Wednesday of each month. Hosted by Eddie ZR6EJW at the Clubhouse.

Microprocessor courses

Continue on all the other Wednesdays of the month.