

Some of the members at the Port Elizabeth Branch's final meeting. If this doesn't turn your stomach, watch for the next issue of QSX-PE!

THIS NEWSLETTER IS PUBLISHED BY THE
PORT ELIZABETH AMATEUR RADIO SOCIETY

P.O. BOX 10402
LINTON GRANGE
6015

August 1996

NOTICE OF MEETING

The monthly general meeting of the **PORT ELIZABETH AMATEUR RADIO SOCIETY** will be held on **Friday, 16 August 1996**, commencing at 20:00 (8pm). The venue will be the Municipal Disaster Management Centre in Westview Drive, Mill Park, Port Elizabeth (previously known as the Civil Defence Centre).

This will be the first full business meeting of the Society but formalities will be kept as short as possible and will be followed by a video show "**Space Shuttle Pioneers 1981-86**". Sounds like great stuff, so *be there!*

Tea and munchies will be available for a small consideration.

SPECIAL GENERAL MEETING SPESIALE ALGEMENE VERGADERING

A Special General Meeting of the Port Elizabeth Amateur Radio Society will be held on **Saturday, 22 September 1996**, commencing at 16:00 (4pm) provisionally in the **Scout Hall, van Plettenberg Street, Kabega (NOT at the usual monthly venue)**.

'n Spesiale Algemene vergadering van die Port Elizabeth Amateur-Radiovereniging sal om 16:00 (4nm) op **Saterdag 22 September 1996** plaasvind, voorlopig in die **Verkennerssaal, van Plettenbergstraat, Kabega (nie by ons gewone vergaderplek nie)**.

The Agenda is as follows:

1. Welcome
2. Minutes of 1995 AGM of PE Branch of the SARL
3. Chairman's report
4. Treasurer's report
5. Society awards
6. Adoption of Constitution
7. Election of Chairman
8. Election of Committee
9. General
10. Close of Meeting

Die Sakelys is soos volg:

1. Verwelkoming
2. Notules van 1995 AJV van die PE Tak van die SARL
3. Voorsitter se verslag
4. Tesourier se verslag
5. Taktoekennings
6. Aanvaarding van Konstitusie
7. Verkieping van Voorsitter/voorsitster
8. Verkieping van Komitee
9. Algemeen
10. Sluiting

It was only a matter of time, I guess, with so many names being changed to fit the New South African image. Have you heard that they're now going to change the name of our renowned gold coin from the Kruger Rand to - what else? - the *Heyns Penny!*

[NB- This is a rare scoop - we're the very first with this astonishing revelation, so brag a little - say you saw it in (SAR-SP)]

A Word from the Chair

The first month in the life of our new Society has **come and gone**. In that time we provided communications for the VW Rally and acquitted ourselves well, by all accounts. I was unable to attend the prizegiving but it was reported that the communications aspect was highly rated. Many thanks to all who participated in any way whatsoever.

Particular thanks to the XYLS, who really did a sterling job. Perhaps the City Lodge post should be exclusively XYL domain.

As can be expected, there were some minor hiccups which need to be addressed next year but, as stated before, the overall performance was great.

Our Treasurer was heard on a recent bulletin calling for the interim subscription payments. A mere R10.00. How about it, Guys & Dolls? We have a long way to go before we regain the figures of the defunct Branch and yet the Society offers a more open and laid back style of membership, which is surely more acceptable to the average Amateur.

You may well ask: "What is an *average* Amateur?" I shan't step into the deep end on that one! This is an exciting period in amateur radio and your input, particularly at the technical gatherings, is most important. If you feel you are not able to put anything in, then you will surely benefit from the knowledge of others.

Hopefully we will see you there.

73,

Dick ZS2RS

EMERGENCY PROCEDURES

Many incidents have occurred which have required the assistance or participation of HAMNET. Some have probably presumed that HAMNET must be proactive whenever circumstances arise. This is not altogether true. There are a number of professional or statutory bodies who deal with emergencies at first hand and, due to their specialist training, *are far better suited and empowered* to such tasks. HAMNET can and will assist such bodies, but only if called upon to do so. Let us look at some situations as examples:

1. SHIPS IN DISTRESS: Such emergencies are handled by SASAR (South African Search And Rescue) and the ARCC (Air Rescue Control Centre) either at Johannesburg International Airport or at Silvermine in the Cape. Hams often hear the first distress calls and, as previously reported in these bulletins, need to:

- a) obtain the key data from the vessel,
- b) alert the nearest Port Captain or Silvermine direct if necessary, and
- c) stand by to monitor and/or relay information IF REQUESTED to do so.

2. LOST OR DOWNED AIRCRAFT: SASAR and the ARCC deal with these situations. The ARCC welcomes reports and is geared to plan search and rescue operations. Only when the circumstances arise will HAMNET be alerted to assist.

The ARCC first gather data on the plane, its flight plan, last known position etc., establishing a probable search area. The police stations in this area are then alerted to establish if ground sightings

have been made and, when the area is more defined, the search proper is initiated.

3. LOST CHILDREN: Here the SAPS are the coordinators in command. Again, they will call on HAMNET for assistance only when required.

4. FLOODS & NATURAL DISASTERS: Such incidents are normally coordinated by Disaster Management in the Local Authority area where the disaster has occurred. Assistance from adjoining areas or on a Provincial or National basis will be activated by Disaster Management as circumstances dictate. SATEPSA coordinates the various bodies that are needed and again HAMNET will be activated on request.

5. IMMEDIATE INCIDENTS: These include motor accidents, fires, medical emergencies etc. Hams are often the first on the scene and our prime function is to alert the necessary emergency services (fire, ambulance and/or traffic) to pass accurate and immediate information ensuring a quick response.

HAMNET can assist in safety at the scene, rendering first aid, traffic control etc. but, once the emergency services arrive, HAMNET takes a secondary role and only if instructed by the on-site commander may we be tasked to assist further or be stood down.

[From the Hamnet bulletin of 31 March. The second part will be published next month]

73

Al Akers.
Provincial Director,
Hamnet East Cape

PEARS BACK IN FIELD DAY EVENT

After an absence of a couple of years, the Premier Society – that's *us!* – has decided to once again participate in this SARL event, which takes place during the weekend of September 7 and 8.

A lot of fun is to be had at the operating site and we are looking for a number of operators to take turns in order to keep the station on the air as long as propagation conditions make operating a viable proposition. Last few times we entered, we knocked ten tons of stuff out of our competitors, and we can do it again.

The event commences at 15:00 SAST on the Saturday 7th and ends at 15:00 our time the next day. However, the station has to be set up at the site before the contest starts, so helpers will be required ahead of time.

There will probably be a CW station in addition to the usual SSB one, so there will be jobs for proponents of the *noble art* as well.



Please let Al Akers ZS2U (☎ 30-2983) know if you will be available to assist with the running of the station in any way and what times you will be available. Listen for Society bulletins for more details as the event draws nearer.

The station/s will be erected on Ascot Farm, property of Ashley Parker between Lorraine Manor and Lovemore Heights. From Circular Drive, turn westward into Van Eck Street and follow it across the railway line. Keep going as the road changes its name to BERGEUS STREET and, at the southern end, follow it as it turns to the right (west).

About 200 metres on, watch for the sign "To SAAR ROAD". Turn left and continue down SAAR, which soon swings right and a gate looms up before you. Proceed through the gate (yes, open it first! – and CLOSE IT BEHIND YOU PLEASE!) Then follow the indicators which will be erected for the occasion. There will be a talk-in on 2 metres.

It's easier to find once you've been there.

Ω




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REPORT

VOLKSWAGEN RALLY

Not only did we have good weather for the rally, but the comms went off well too. I understand that, at the prizegiving, Roger McLeery, who was commentator in the Stannie vehicle, claimed that the comms were the best ever for a Volkswagen rally. As one of the main considerations when planning the rally comms was to speed up the passing of times, it was good to hear that the effort had borne fruit.

Rally control comms was effective too. We did have some problems with comms (don't we always?), but nothing serious.

The rally is without doubt the branch/club activity that requires the most teamwork and I thank all those who, in one way or another, helped to make it a success. I wish to thank especially the following:

- Chris ZS2AAW for doing a fine job of the maps, and this at short notice too. Also for his work on the excellent repeater network which we have at our disposal,
- Mike ZS2IC for the first class printing of all the instruction sheets,

time logsheets, etc.

- Peter ZS2PF for his help with the recee run.

Others too numerous to mention who did more than the minimum required. For example, several members constructed antennas or incorporated various innovations into their operating setups especially for the rally.

Hopefully, after such a successful effort, we are spurred on to do even better next time.

73

Al Akers ZS2U



FOR SALE ★ WANTED ★ SWOP

WANTED

- ★ Spare **battery packs** for Icom IC2E and IC02A handhelds, even if their cells are kaput
– Alan Bowles ZS2BO, ☎ 35-2039

FOR SALE

- ★ Kenwood TH-215A **Handheld**, complete with speaker mic, battery packs and charger, **KDK FM-2016E 20w mobile 2m rig** and Yaesu **8A power supply**. All items are in excellent condition and have been well cared for. Contact Mike (041) 30-1498(H) or (041) 30-4381(B)

Fiddlers' Corner

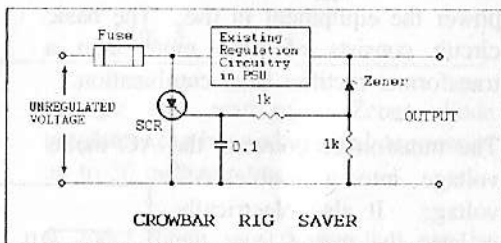
Crowbar Rig-Saver

What happens if the regulation circuit in your power supply gives up the ghost? *Poof!* Your equipment loses smoke and joins the regulation circuitry in its happy, but expensive, hunting ground. Here is an additional safety device that you can use.

The crowbar circuit depicted here is a useful protection device around the shack. The theory of operation is simple and it comes into play if an over-voltage condition arises due to power-supply regulator failure.

If the voltage rises above the zener avalanche voltage, the zener diode conducts. The point below the diode goes positive, which biases the SCR into full conduction.

The SCR is shunted across the input to the regulated supply, with a fuse in series. The high current drawn by the SCR, when it conducts, quickly blows the fuse, keeping the excessively high voltage from damaging your expensive transceiver!



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electronic
requirements

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we
don't
have,
we'll
get

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HOW POWER SUPPLY CIRCUITS WORK

Everything you wanted to know about power supply circuits but never asked.

Got an itch to get involved in construction projects? Building a power supply could be a good place to start. If you learn as you go, so much the better. But this article is about *how* power supplies *work* rather than actually building them.

BASIC SUPPLY

The basic power supply circuits are used to operate from AC mains and convert this into a DC voltage at the level required to power the equipment in use. The basic circuit consists of little more than a transformer-rectifier-filter combination.

The transformer converts the AC mains voltage into a usable AC voltage. It also electrically isolates the mains from the DC supply output. The rectifier converts the AC voltage into a DC voltage. The capacitor smooths the DC voltage.

- 1) the secondary voltage
- 2) the power rating and
- 3) the regulation factor.

The secondary voltage is always given as the R.M.S. value at the full rated current output. The power rating is given in watts or VA. The regulation factor is the difference in voltage between the unladen

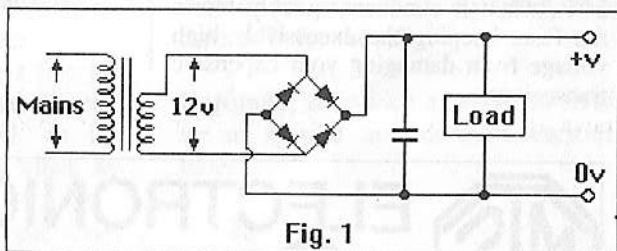


Fig. 1

Figure 1 shows a single-ended transformer and bridge rectifier, while Figure 2 uses a centre-tapped transformer and provides almost the same performance.

value and the level at the full rated power output.

PARTS SELECTION

The most important transformer parameters are:

A 12 volt 12VA transformer supplies a secondary voltage of 12 volts RMS at a load of 1 amp. When the load is removed, the voltage will increase by the regulation factor of, say, 10%, which is a common factor, and rise to 13,2 volts RMS.

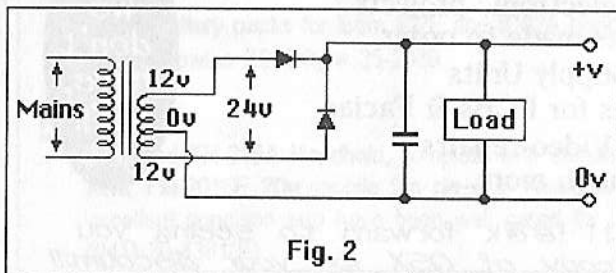


Fig. 2

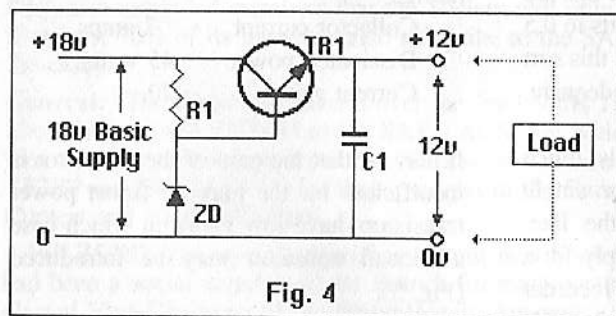
It is important to note that the DC output voltage from the supply is not the same as the AC RMS voltage of the transformer secondary. It increases by approximately 1,4

times when using the circuit in Fig. 1 and 0,7 times when using the circuit in Fig. 2.

When rectifier losses are considered, the voltage output of Fig. 1 will be reduced by 1,2 volts and that of Fig. 2 by 0,6 volts. The bridge rectifier or diodes used should be able to handle the full current that the transformer will supply.

The smoothing capacitor converts the rectified signal into a smooth output voltage and the important parameters are the working voltage and the capacitance. The working voltage should be, at the very least, the off-load output voltage of the supply.

What governs the capacitance is the power drawn from the circuit, the transformer regulation factor and the voltage ripple on



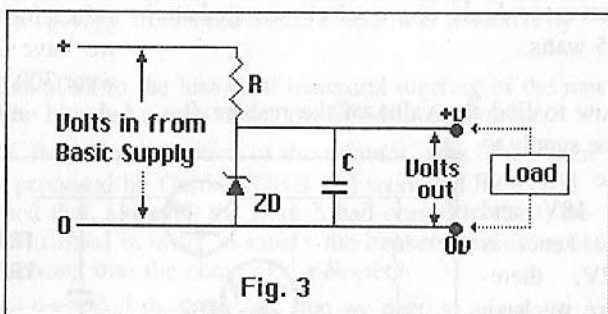
the DC supply. Rule of thumb will be $500 \mu\text{F}$ for small supplies up to about 1 ampere, $1000 \mu\text{F}$ up to about 5 amperes.

VOLTAGE REGULATION

Voltage regulators can vary from simple circuits using zener diodes at fixed outputs to variable voltage and regulated high current circuits using discrete components,

or developed around three- or multi-terminal regulator ICs.

In its simplest form one can use a zener diode, the important parameters being the



voltage and wattage. Zener diode regulators can be used to supply current of up to 30 milliamperes.

A zener diode is a device that can be likened to a pressure relief valve. When the voltage (pressure) across the zener diode exceeds the zener voltage, the diode breaks into conduction and holds the voltage across its terminals at its prescribed value.

Let us assume that the load requires 20 milliamps at 12 volts, and the basic supply delivers 18 volts DC. Referring to Fig. 3, we want to draw off 20 milliamps

across the zener diode ZD, so we must ensure that at least this amount flows through the zener. To make sure that there is no voltage drop-off we will add an additional 20% to the flow.

We first of all select the zener - in this case a 12V device - and the zener should be able to handle at least the off-load

power, in this example $20 \text{ mA} + 20\% = 24 \text{ mA}$.

Dissipated power for the zener = $12\text{V} \times 24 \text{ mA} = 0,29 \text{ watts}$. You can't get a 0,29 watt zener diode, so we select one rated at 0,5 watts.

Now to find the value of the resistor R.

The supply to the regulator is 18V and the zener is 12V, therefore we have 6 volts across R, so $R = 6\text{V} \div 24 \text{ mA} = 250 \text{ ohms}$.

But you can't easily get a resistor of this value, so you use a "preferred" value of 220Ω . This means that a little more current is going to flow through the zener but the fact that we increased the rating from 0,29 watts to 0,5 watts should take care of that. At this sort of current, $5 \mu\text{F}$ for C should be adequate.

Now this circuit does not supply much and would be suitable only for single transistor audio pre-amps and the like. Let's suppose that we want a supply for a transistor radio or small tape recorder requiring 300 mA at 12 volts. We introduce a transistor, and the zener now serves as a *reference* voltage to a non-inverting high-gain amplifier as shown in Fig. 4.

The transistor parameters are maximum collector current, dissipated power, and current gain. In this case the collector current is the 300 mA that the portable

radio is going to draw.

The dissipated power is 6V dropped across the transistor, times the current, $6\text{V} \times 0,3 \text{ A} = 1,8 \text{ watts}$. If we used the values mentioned in the previous example we have 20 mA available and we now want 300 mA. Therefore the current gain should at least be $300/20 = 15$. The

higher the gain the better the regulation.

It must be taken into account that there will be losses in the transistor of about 0,6V

and a 12V zener will give an output of 11,4V. A suitable transistor would be a 2N3054, which has these maximum ratings:

Collector current	7 amps
Dissipated power	45 watts
Current gain	20.

It may be that the gain of the transistor is insufficient for the purpose (most power transistors have low gain), in which case a second transistor may be introduced (Fig. 5).

The gain of this super alpha pair is the product of the gains of the two transistors. A suitable transistor would be a 2N3053 and this circuit could supply up to the maximum rating of the 2N3054.

In the second part of this article, we will talk about a variable voltage supply capable of powering an HF rig. ...

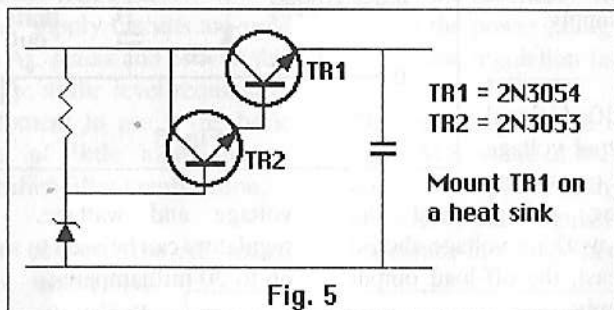


Fig. 5

MINUTES OF THE FIRST GENERAL MEETING OF THE PORT ELIZABETH AMATEUR RADIO SOCIETY, HELD AT THE MUNICIPAL DISASTER MANAGEMENT CENTRE, MILL PARK, PORT ELIZABETH ON FRIDAY, 12 JULY 1996

Present & Apologies: As per attendance register – 39 persons including several who were awaiting their callsigns. An apology from Fred Strutt ZS2JS was tendered by Lynne ZS2MM.

Welcome: The Chairman welcomed all to the historical inaugural meeting of the new Society. He hoped there would be as good a turnout for the SGM in September.

Minutes of June Meeting of PE Branch: Adoption of the minutes, which had been printed in QSX, were adopted – proposed by Garth ZS2HB and seconded by Lynne ZS2MM. The Chairman explained that, although the Branch had ceased to exist, the minutes had nevertheless to be confirmed in order to satisfy the bankers' requirements before they could transfer our accounts into the name of the Society.

Matters Arising: The Chairman reminded those present that we need to adapt our badge and he invited interested parties to submit their ideas as soon as possible. All designs would be presented for selection at the SGM.

Finance: Treasurer Clive ZS2RT said the situation was healthy with a balance of R14 750 in the bank.

The Chairman announced that a special subscription of R10 per member would be payable for the period 1 July to 30 September 1996 or part thereof. The SGM in September would decide on further financial issues, including the subscriptions payable from 1 October, and anyone wishing to vote at that meeting would need to be a fully paid-up member for the period up to 30 September.

Dick also reminded members that the Society will only be able to affiliate to the SARL if at least 70% of its members also subscribe to the SARL, which he hoped would be the case.

General: The Chairman handed over the Fred Mills Trophy that had been awarded in absentia to Lynne ZS2MM at the SARL AGM but which Dick had not yet been able to pass on to her for various reasons. He also presented certificates to Al ZS2U, Peter ZS2PF and Des ZS2ABU for their prowess in the Hamnet Simulated Emergency Contest and VHF QSO Party.

- Bill ZS2BY conveyed best wishes for our new Society from Bernard ZS4CW, who had been a social member of the Branch for many years. However, he has been elected Vice Chairman of the Bloemfontein Amateur Radio Club and will consequently not join PEARS. The Chairman asked Bill to convey our congratulations to Bernard and an expression of our appreciation for his support during the years.

- Al ZS2U was then given the floor and, after welcoming the Clerk of the Course to our midst, Al gave a final briefing for members who would be assisting with communications during the Volkswagen Rally.

Closure: In closing the meeting at 21:15, the Chairman invited all present to partake of the refreshments that had been laid on to celebrate the establishment of the PE Amateur Radio Society. He expressed his thanks to the ladies who had prepared and provided them, with particular mention of Lynne ZS2MM who had co-ordinated the effort.

PEAR JUICE

PEARS Suitably Inaugurated

The inaugural meeting of our new Society went off very well (naturally!) and, after short business and a longer briefing for the VW Rally, members got down to the serious business of polishing off the wine and eats. So much so that the Chairman, Dick ZS2RS, had to ask everyone to leave the wine alone for a while as they were starting to look fuzzy.

Many thanks to the ladies for preparing the delicious eats and refreshments, and to the organisers for another job nobly done.

Treasurer Clive ZS2RT was hard at it writing receipts for all those who were queuing up to be founder members of the Wooden Spoon Society, and we are pleased to have also enrolled several persons who were not previously full or social members. Welcome to you all. Maybe we'll give a list of all the newcomers next month when it should be more complete.

PACKET SCENE

At last! The BBS has stopped its nonsense with the Grahamstown digipeater and some would-be users and it's allowing traffic to flow freely after Chris ZS2AAW gave it a good talking to. Contrary to the TNC's book of instructions, Chris jumped the thing *his* way and *voila!* The TNC turned user-friendly and, as befits all good communicators in the new South Africa, its discrimination came to an end.

ZSØNTP can be accessed on both the old channel 144.675 and the newly adopted 144.600. Jim ZS2LR is using the latter

channel for forwarding, which enables him to get on with his essential task without holding up, or being held up by, other stations.

The Grahamstown digipeater is still on the old 144.675, while the ROSE switch can be accessed on 144.600 (wanted callsign V ZSØGHT,046101). The ROSE was earlier installed on the Lady's Slipper repeater site but was removed to Charlo temporarily because of interference with other services. Chris is working on the problem and plans to return the unit to the mountain as soon as he is happy with it. Meanwhile, you can use it if you wish - which will also help to evaluate the switch - or simply go into the BBS direct on 144.600.

Technical Get-together

Those who missed the last one lost out on a very interesting and humorous report by Steve Williams on their experiences surrounding the planning and erection of VHF FM transmitters at three sites in southern Malaysia. He then went on to demonstrate some lesser-known but extremely useful yet simple applications for a spectrum analyzer, e.g. determining the velocity factor of unknown coax, matching electrical lengths of pieces of coax for phasing, etc..

Don't miss the next one on 21 August at the clubhouse, commencing at 19:30 or thereabouts. Dress optional, but recommended in this cool weather.

Accolades but No Mileage

As mentioned on page 6, many kind words were expressed by the organizers

regarding the quality of the communications provided for them by the hams.

It is a pity, however, that year after year all the effort that goes into providing this very important service secures no publicity whatsoever for Amateur Radio. Similarly, when hams assist in bringing stranded people down from mountains or help during other disasters, no credit is given in the media. Is it our own fault perhaps? What should we be doing about it?

Wefax back on the air

The weather facsimile retransmission from the Museum came back on stream on 24 July after Colin ZS2AO installed the new receiver and coax and repaired the feedhorn. Excellent pictures are being received, and we thank Colin for all his hard work – and power of persuasion in getting the Museum purse strings opened to finance the new commercially made receiver. This replaced one that Colin built some ten years ago and provided much enjoyment for visitors to the Museum as well as local hams.

Radio Inspectors orbiting

We hear that the Radio Inspectors from Port Elizabeth visited Colin ZS2CR in East London recently and one or two other hams as part of their ongoing activities now that they have so much new gear at their disposal.

I visited their local (Regional) offices recently and had a look at their new toys – fully computerised, menu-driven and remotely controllable. They can link to any of the other similar installations around the country, for example to get bearings on a signal, and then with their GPS facilities proceed to within a few metres of its source with their beautifully

equipped vehicle. At this point, their hand-held DF unit comes into play. With it they can pinpoint one particular offending piece of equipment in a whole roomful.

Spectrum analyzers are part of the standard equipment so finding signals that pop up where they should not be is no problem. Measuring transmitter output power without your knowledge? Piece of cake! They respond quickly to reports or complaints *from* hams too, and not only *against* us. Unfortunately, though, the RI at regional level can not get the foreign intruders out of our bands. Steps that they have taken in the past about the fishermen have had short-lived results – they're back again next season.

Bloemfontein-on-Sea?

Now that the Free State is on the coast, the Bloemfontein okes should set up their field day station on the beach, where they can enjoy maximum exposure among the sun-worshippers and enthusiastic bathers as they frolic in the sea. A word of warning to our ZS4 brethren, who are naturally very inexperienced dudes in the dunes – don't let the sea-sand get into the works!

[A SARL bulletin announcing the appointment of SARL IARU Monitoring System Coordinators reported that the Southern Region includes all of the Cape Province, the Coastal Region includes KwaZulu-Natal and the Free State, while the Northern Region consists of the remaining provinces. Guess that should have been the Central region.]

- Leon Tromp has been appointed as Regional IARUMS Coordinator for the Southern region. No call sign was mentioned, but I see from the callbook that there is a Leon Tromp listed under ZR6CD. Wonder if he has since moved to the South. Ω

Congratulations

on your birthdays:

August

- 23 Owen Thomas ZS2AZ
- 26 Vic Plumridge ZS2VP
- 27 Alan Smith ZS5AG

September

- 2 Mel Gwilt XYL of Beavan ZS2RL
Reinette van Deventer XYL of
Andre ZS2BK
- 6 Gerhard Baum ZS2UM
Irene Middendorp XYL of Lou
ZS2UI
- 8 Phil Hopper ZS2PP
- 9 Annelise Venter XYL of Mark
ZR1MLV
Gail Mosley ZR2SGT
- 10 André van Deventer ZS2BK
Belinda Herselman ZR2CH
- 11 Barry Jackson ZS2H
Jane Fife XYL of Clive ZS2RT
Abdus-Samad Mall
- 12 Jo Akers ZS2W
Pam Hopper XYL of Phil ZS2PP
- 13 Dick Schönborn ZS2RS
- 14 David Grunewald ZR2DCG
- 15 Hanni Baum ZR2JB
- 16 Rietjie Staples XYL of Sel ZS6SS
- 20 Van van der Merwe ZS2JC
Gideon Grobbelaar ZS2ZS
Martie van der Berg XYL of Dick
ZR2ABH
Pierre Knobel ZS2ABC
- 22 Garth Moore ZS2AAR
Hettie Thompson XYL of Royden
ZR2ABF

on your anniversaries:

August

- 30 Elizabeth & Andre Oliphant

September

- 2 Joan & Alan Bowles ZR2ABA &
ZS2BO
- 10 Isabella & Morris Wyatt
- 12 Iloncka & Henk-Jan Busse ZS2-273
- 15 Rosemary & Colin Robertson ZR2RR
and ZS2CR
- 17 Beryl & Bryan Hacfele ZR2BG
- 22 Anne & Vic Olivier ZR2ABC &
ZS2SZ.

on your new granddaughter Peggy
& Viv Moore ZS2VM.

on your new callsign Thomas van
den Berg ex ZR2ABH now ZS2VV.

Welcome new members Theuns
Potgieter ZR2TP, Gary Laaks ZR2ABU,
Keith Laaks ZS6TW (Pretoria) and
Richard Borello ZR2RB (J Bay); Neville
Robert ZS2NR and Ed Langley ZS2PU
(formerly social members).

Welcome home Owen ZS2AZ and
Wolf ZS2WG from overseas holidays, and
Vic ZS2SZ from Durbs.

Travellers Dick ZS2RS to UK *again*
after his recent return therefrom. Think
he left something behind. Also running
away again is Vic ZS2SZ off to Mossel
Bay this time.

Farewell Waldie Bartie ZS2WM, who
has decided to relinquish the hobby of
kings. Sorry to lose you from the fratern-
ity, Waldie. Do retain your callsign just
in case!

White House: Fred ZS2JS looking
well after contributing to his doctor's 4X4,
and Royden ZR2ABF sounding great after
another three weeks in the Johannesburg
General. Our good wishes for a quick
return to good health, you guys. Ω

Your Society's Committee

Chairman; Special Events	Dick Schönborn ZS2RS	38-5070
Vice Chairman	Al Akers ZS2U	30-2983
Secretary	Bert van der Poel ZR2USA	55-2690
Treasurer; Assets Control	Clive Fife ZS2RT	32-3203
assisting with Assets Control	Lynne Crothall ZS2MM	35-4671
Social, Library, Awards	Owen Thomas ZS2AZ	38-4134
assisting with refreshments at meetings	Bill Hodges ZS2ABZ	51-2580
Repeaters, Packet	Chris Scarr ZS2AAW	38-1344
QSX Manager	Trevor Scarr ZS2AE	32-1746
assisting as QSX Editor/layout	Garth Laaks ZS2HB	38-1101
Technical Classes	To be announced	

PEARS' VHF & Other Services

REPEATERS

Town VHF	145,050/650	Grahamstown	*145,150/750
Town UHF	431,050/438,650	Kareedouw	145,125/725
Cockscomb	145,000/600	Lady's Slipper	*145,100/700
Cradock	145,050/650	Uitenhage	145,075/675

* East London's repeater on 145,125/725 MHz is linked to PE's coastwise 2m repeater system.

OTHER SERVICES

Packet Bulletin Board (ZSØNTP)	144,675 & 144,600
Packet Rose Switch (ZSØGHT,046101)	144,675
2m Beacon (ZS2VHF CW ID)	144,910
6m Beacon (ZS2SIX CW ID)	50,005
6m Link with Lady's Slipper 2m Repeater	51,400
Wefax Relay (Meteosat)	145,350

Sunday Bulletins

PEARS bulletins are transmitted on Sundays immediately after the SARL English transmission, i.e. at about 08:45, on 7098 kHz as well as the 2 metre linked network that provides coverage from East London to George and environs via repeaters on 145,750 MHz (Grahamstown), 145,700 (PE Slipper), 145,650 (Knysna) 145,700 (George) and East London's 145,725. PEARs' 7098 or 3640 kHz transceive facilities are also remotely linked as needed. Alternatively, the SARL's 40m transmissions on 7082 or 7066 kHz can be patched in for automatic relay to the 2m system.

Date	Prepare and Read on 145,750
18 Aug	ZS2U
25	ZR2USA
1 Sept	ZS2RT
8	ZS2AAW
15	ZS2AZ
22	ZS2AE

DIARY DATES

AUGUST

- 16 PEARs monthly meeting
- 21 Constructors' Gathering
- 25 SARL CW contest

SEPTEMBER

- 7/8 SARL Field Day contest
- 21 PEARs Spec'l Gen Mtg

★ Now We Like Being Your Society! ★