



# QSL PE



**THIS NEWSLETTER IS PUBLISHED BY THE  
PORT ELIZABETH AMATEUR RADIO SOCIETY**

**WEBSITE – [www.qsl.net/zs2pe](http://www.qsl.net/zs2pe)**

**PO BOX 10402  
LINTON GRANGE  
6015**

**FEBRUARY 2006**

# PEARS' MONTHLY MEETING

The monthly general meeting of the **PORT ELIZABETH AMATEUR RADIO SOCIETY** for the new year will be held on **Thursday, 16 February 2006** at the St Hugh's Church Hall, Newton Park, starting at 20:00 (8 pm).

Al will give a short talk on his 4 metre quad, and Lynne Crothall ZS2MM will entertain us with one of her quizzes, so pull up your socks, and let's see how you all do with the questions. She says she will not ask any ham radio questions, so you'll have to think a bit wider, but don't worry about astronomy. I don't think there will be questions about planets.

Thanks to Bill ZS2ABZ, we will be able to enjoy our tea, coffee and biscuits before Lynne starts with the interrogation. ☺

## Wrinkly Ravers

We had another dozen members at the February wrinkly rave, with several of the old-timers missing for various reasons.

Because another group had booked the smoking lounge for a conference, we had to sit in the general area, where we found it a little difficult to chat (Peggy actually sent an SMS to me at the other end of the table to say hello!), while some of our members had to behave themselves a bit better than in the past. I didn't see Viv hugging the waitress this time, for example.

The next Rave will be on Thursday, 2 March. *BE THERE!* ☺

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## **NEW EDITOR FOR QSX**

As I said last month, after more than 15 years as Editor of QSX, I feel that the time is ripe for me to hand over the task to someone new so that Elize and I can get to visiting, or revisiting, the various places around the country.

The May issue, which will announce the 2006 AGM, will be my last (unless I am thrown out earlier!!). I understand too that Trevor and Julie, who regularly deal with the collation, addressing and posting of QSX, will also seek a spot of relief from their duties at that time.

At the last committee meeting it was decided that Rory ZS2BL, Barry ZS2EZ

and Ashley ZR2AG would at least for the present time handle QSX. If there are any others who might be prepared to take on the job, please contact them. I know that many will find the task interesting.

I will be around if needed and will supply the new team with names of those who regularly provide articles for QSX.

Maybe Viv ZS2VM and I will eventually settle down to produce that threatened booklet with all the circuits and hints that have appeared in QSX over the last 15 years. ☺



It was most heartening to see the good attendance at our January meeting and the high level of activity during the PEARS VHF/UHF contest. This bodes well for the future, which is good because there are several activities being planned in which members may participate. Listen go bulletins and read QSX for further details.

**At present Paul Galpin ZS2PG is running an RAE class at his home for an interested person.** If we have sufficient candidates for the RAE we will hold classes for them. If you know of anyone interested in writing the RAE, get them to contact Paul Galpin as soon as possible. His telephone number is 372 1779 and his cellphone number is 082 741 2703. He lives in Colleen Glen.

Candidates for the RAE will need to pass a test on setting up and operating an HF transceiver before they write the RAE. Such a test will be arranged and publicized.

This test is also necessary for restricted (ZR) licensees who wish to upgrade to a full (ZS) licence.

73,

Al, ZS2U

Since the writer's retirement from the Defence Force three years ago, SATEPSA has seen it's demise. This has left the region without a permanent organisation for Power and Telecommunication planning to cope with disaster conditions.

An effort is being made to correct this situation, but in the meantime the lack of an up-to-date emergency contact list is a problem which needs correcting.

The following should be added to any present list as an interim measure:

Power failure	(PE)	041 374 4434
Water problems	(PE)	041 360 7811
Medical Rescue		10177
SA Police Service		10111
Metro Rescue	(PE)	041 456 1685
	(EL)	043 726 3350
	(QTN)	045 838 3858
Disaster Management Bisho		083 991 1877
	PE	083 463 5365
Air Traffic	PE	041 581 3585
<u>Road Accidents Nationwide</u>		
Arrive Alive		0800 005 619
Accident Call Centre		0861 400 800

This list will be extended and amended from time to time.

Thanks and 73,  
*Ken ZS2OC*

## FOR \$ALE ★ WANTED ★ SWOP

### **FOR SALE**

- \* Two professional hand-held dynamic microphones, HI/LOW impedance, OFF switch, 4 metre long cord with ¼ inch tip/ring jack plug, highly polished stem, almost new — contact Barry Jackson ZS2H, tel. 041 360 3052.

### **TAKE AWAY – *won't cost you a cent except your fuel!***

- \* Tribander Junior fitted with commercial balun, two selsyn motors, Big Circle map; already dismantled and ready to take away! — contact Gus Winter ZS2MC, tel. 041 364 1477

# SARL AGMs TO VISIT OTHER CENTRES

In a recent announcement by the President, the SARL says it will move its annual general meeting to places other than Johannesburg every second year. Between times the AGM will be held at its headquarters in Johannesburg.

One might remember that we have always maintained that it was in the interests of members that they should be allowed to see HQ in action and be able to meet members of Council at least occasionally in their own town. Few members are able to get up to Johannesburg every year for one reason or another – particularly the cost.

Unfortunately our views were not shared by the previous Council, who maintained that we have an excellent meeting place in Johannesburg and it was too expensive to send all the Councillors around the country.

We welcomed the good news from the President. Hopefully it will enable many members to attend the odd AGM and it should help to maintain their interest in the League.

This year the AGM will be hosted by the Durban Amateur Radio Club on 8 April 2006 at the University of KwaZulu-Natal. Registration is at 08:30 with the meeting starting at 10 am with an opening address by Prof Tony Broadhurst of the School of Electrical, Electronic and Computer Engineering.

During the afternoon there will be a Divisional Advisers forum to which all members are invited. The annual dinner and awards presentation will start at 19:00 also at the University.

Unfortunately I will be on my way back from Cape Town on that date and will not be able to attend the upcoming AGM. I can remember a previous occasion when a group of us from Transkei went to Durban for an AGM and we had a really fabulous time. ☺

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## LAST MONTH'S QSX LOST IN POST

Early on Thursday, 12 January we posted our 160 odd copies of QSX and expected them to reach everyone long before the important items mentioned therein – the meeting due on the 19th and the PEARS VHF/UHF contest on 20 to 22 January.

The following week we were asked what had happened to QSX. Nobody seemed to have received their copy. Elize quickly got hold of the Emerald Hill Post Office, who confirmed that QSX had correctly been sent to PE for onward treatment. A phone call to Walmer confirmed that they had never received theirs.

On Wednesday we got AI to check with Linton Grange to see whether they had been mailed to the return address in error – and he found that they had in fact been sent *back* for insufficient postage! (Their system does not show where items were actually handed in.)

The instruction left in our private box was

simply that there was a parcel which was too big to fit into the box!

We then telephoned the Enquiries section of the main Post Office and the gent offered to look at them at Linton Grange that afternoon and see what happened – but Linton Grange misunderstood the instruction and sent them back to PE again.

On Thursday we had them forwarded to the Enquiries section, where they were looked at. We were told that the problem was not postage, but the use of a staple to hold QSX in the closed position!

He allowed the copies to go through, but by that time they would no longer be able to advertise our meeting and would probably only get to the local recipients after many had left for the VHF/UHF contest.

In future we'll use scotch tape, which is apparently OK with the PO. ☺

# PEARS VHF/UHF CONTEST

by Al Akers ZS2U

The contest went well with good weather and good, though not excellent, conditions at least for the Southern and Eastern Cape.

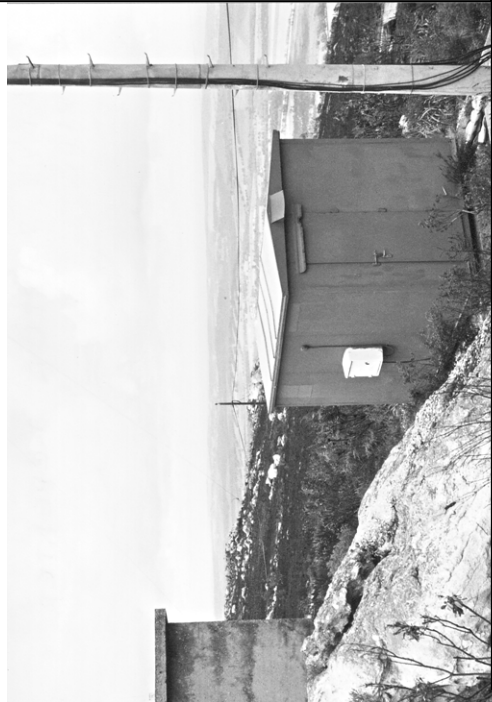
It was a pleasant surprise to see so many portable stations active, namely Spitzkop near Knysna, near the lighthouse in Mossel Bay, Gouritz, Lady's Slipper, Zuurberg, Olifantskop, Longmore Forest and Dohne Peak. Another pleasant surprise was the high level of four metre activity.

A fuller report will be given after logs have been received and processed.

Here are a number of photographs of various sites as submitted by the contestants: **1 and 2** are of Spitzkop with Johan ZR2GJ and Dawid ZS1PC operating station ZS1SKR; **3 and 4** were up on Lady's Slipper, taken by Martin ZR2MR and showing somebody's recently burnt-out repeater cubicle as well as Ewalt ZS2EHB (not yet burnt-out!). Item **5** came from Al ZS2U and Bill ZS2ABZ of their station in Longmore Forest.

Item **6** is a shot of the tower at Longmore, while **7 and 8** are of our set-up on Lady's Slipper mountain. Hopefully the photos will come out OK in print. 📷





# LED LAMP FOR OPERATING & LOGGING

From Johan Terblanche ZS1I


**T**his LED light (goose neck lamp) is perfect for portable use when operating and logging during contests or even emergency situations. It has various other uses that I can think of which I am not going to mention here.

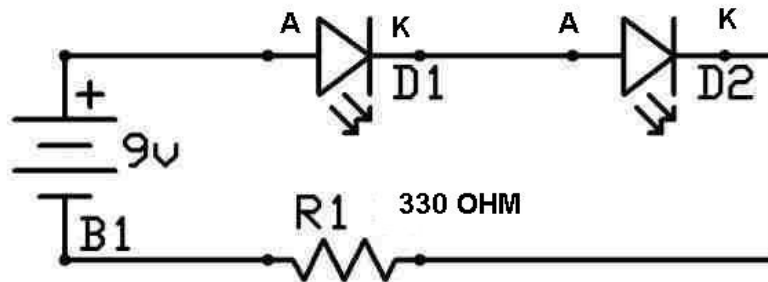
The complete lamp is built using 45 CM of "goose neck", two white ultra bright LEDs, some heat shrink tubing, a 330 ohm  $\frac{1}{4}$  watt resistor, two cable ties, one 9 volt battery and a 9 volt PP3 battery clip, a drop of silicone sealant on the base of the LEDs and a plastic spring clamp.

Construction is simple and needs no further explanation except that the heat shrink tubing is used to cover both LEDs. The two LEDs produce more than enough light while you can clamp it to almost anything.....

Alternatively you can use a 100-ohm resistor for R1.

The LED light will draw 20 ma from a fresh 9-volt battery. After 24 hours of continuous operation, the voltage will drop to between 7.4 and 7.5 volts, which is right in line with Duracell specs.

Enjoy building this simple but useful operating and logging LED light. 





# FOUR METRE QUAD

by Al Akers, ZS2U

**A**bout two weeks before the PEARS VHF/UHF contest I decided to give four metres a go too, but what gain antenna should I use? Should it be a 3-element beam or a 2 element quad?

I decided on the latter. Already two amateurs have shown interest in the quad, hence this article.

A fixed quad is relatively easy to build. A portable one is rather trickier and may well test the ingenuity of the constructors. It should be easily and quickly assembled

or dismantled, and should be easily stored.


It is difficult to do justice to such a project in an article like this, so I intend taking my one to the February general meeting for discussion and demonstration to those interested.

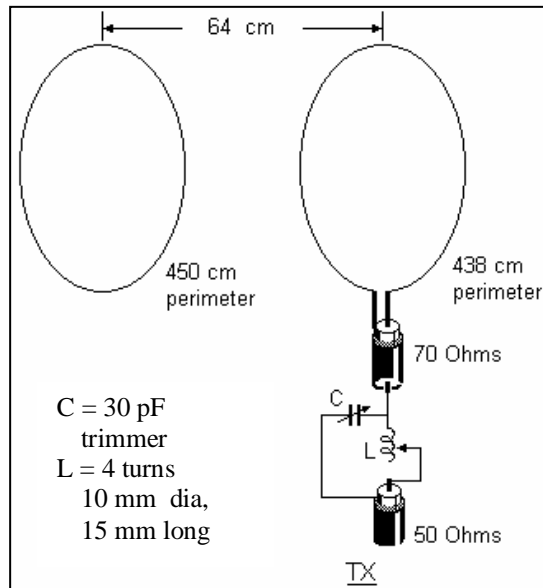
Dimensions shown are for solid, uninsulated wire. Stranded and/or insulated wire will require testing before use. Insulation for instance will make the antenna resonant at a somewhat lower frequency.

Spacing used results in an impedance of 70 ohms at the feedpoint so that a 70 ohm line can be connected directly to the driven element and goes to a PVC box which is fastened to the mast.

In the box is an L network which will match the 70 ohms to a 50 ohm line.

Maximum values are shown for L and C and these should be adjusted for minimum SWR.

A BNC socket is fitted to the bottom of the box and a 50 ohm feedline with a BNC plus is connected here. 




## ***That Good Old "Slow And Rusty"***

Reporting on a recent train trip to Pretoria, Dudley Forsyth ZS2AW says: "The train glides along. The manager now has a laptop ticket-issuing machine!"

"Once out in the countryside the dereliction of mainline stations is positively alarming. Once proud stations known for their gardens looked like bombsites with broken windows, brickwork and frames knocked out. Many sidings are obsolete with rails disconnected. Long lines of rusting rolling stock of all kinds stand idle. Kroonstad was the worst. Surely the metal could be retrieved? The foundries must be waiting. It is quite tragic really.

"We found the new windows very difficult – small with limited openings. No more baggage bundled through an open window.

"The joy of the passing countryside and passing parade has gone in favour of security. Rescue in an emergency could be impossible, but it was a pleasure just to sit back and let them drive!" 

**MINUTES OF THE MONTHLY MEETING OF THE  
PORT ELIZABETH AMATEUR RADIO SOCIETY**

**held at the St Hugh's Church Hall, Newton Park, Port Elizabeth on  
19 January 2006**

**Welcome:**

The Chairman welcomed everyone to the meeting (+/- 27 present).

**Present and Apologies :**

As noted in the attendance register, including ZS2DD, ZR2ECH, ZS2EZ

**Acceptance of Previous Meetings Minutes :**

Proposed : ZS2PG Seconded : ZR2AG.

**Matters Arising:**

ZS2PG Paul mentioned that he supported the meeting day change, being involved with the RAE's twice a year. ZR2NT supported returning to a Friday night. Discussion ensued, whereafter the consensus was to retain the current meeting day, but organise extra social events on the occasional Saturday. Normal monthly meeting venue was agreed to remain at the present location, which offers space and parking at nominal cost.

**Correspondence:**

In: Numerous Repeater licences  
ICASA fax – notification of site inspection at Lady's Slipper 23 Jan 2006.  
ZS2AAW to attend  
Out: None.

**Finance:**

The Treasurer reported on the Society's financial position, which was accepted by the meeting.


**General:**

Neil, ZR2NT mentioned that he was about to place an order for the Sky Guide 2006 at R50.00 ea. This publication lists the SA Astronomical events. He also offered to host a trial meeting at the People's Observatory as an alternate venue, which can seat approximately 25. There is no enclosed parking, but plenty of space on the verges.

ZS2PG Paul proposed an award for AI, ZS2U at the coming AGM for organising the RAE courses for so many years. The meeting was invited to consider other awards for the AGM later in the year, as per usual. He also asked that any prospective RAE candidates be asked to contact him at (041) 372 1779

ZS2EHB Ewalt questioned the progress of AI's SARL Award, which was confirmed as being in progress.

Viv mentioned the possibility of kits to build the Receiver described in QSX.

The business of the meeting was concluded at 20h30. ZS2AAW gave a brief photographic presentation of the new repeater site installations, ZS2H gave a talk on promoting the use of old HF amateur equipment usually available at bargain prices. 

# Pearstalk



(Some of these items are from SARL bulletins, ZS4BS Dennis Green's HF Newsletter, etc.)

## **NEW 2 METRE CHALLENGE**

Derek ZS5Y, SARL VHF/UHF Contest Manager says that, as from 1 January 2006, there will be a new challenge on two metres – the One Million Kilometres on 2 Metres Award.

A certificate and stickers will be available to mark certain total distances achieved in QSO's. Initially a certificate will be awarded to an amateur making QSO's totalling 5,000 Kilometres.

A floating trophy will be awarded to the 1st station to get to 5000km. It will rotate to the winners of each of the legs below.

Stickers to update the certificate will be awarded at 25,000, 50,000, 100,000, 250,000 and 500,000 Kilometres.

A fresh certificate will be issued at 1,000,000 Kilometres.

Rules will be kept to the barest minimum, as it is more important that people look at the spirit of this award rather than the detail.

All contacts must be made after 1 January 2006 and in the simplex section of the band plan, and they must be direct station to station. Repeater contacts including satellite do not count towards the award. Moonbounce is also excluded.

Multiple contacts with the same station count only with 24 hours in between.

Maidenhead locators should be exchanged during each QSO. If this is not possible then enough detail should be exchanged to allow later calculation

of the Locator.

Distances will be based on the Maidenhead locator system as used in VHF contests.

The purpose of this challenge is to promote activity on the 144 MHz Simplex part of the band

## **ENTRIES INVITED FOR TINUS LANGE 7 066 TECHNICAL EXCELLENCE AWARDS**

Have you built something lately or written some software? Why not enter it for the Tinus Lange 7 066 Technical Excellence Award. There are two sections, a junior section for entrants under 25 years old and a senior section. The award is bestowed annually on the persons who submit a technical project in any of the following categories:

Design and/or construction of projects such as a pre-amp, SWR bridge, patching unit, automatic ID-er, practical antenna ideas, mast, portable gear, power supplies etc., or any software for use in Amateur Radio.

The submission must include the actual item (if size and mass allows it) or photographs and a complete write-up in article form with illustrations and pictures ready for publication in Radio ZS.

Entries should reach the NARC not later than the 28 February 2006. All entries will be displayed (where practical, otherwise photographs) at the AGM. The awards will be presented at the annual dinner. The winner in each category will receive R350 and a

certificate.

### **WAP MEETS HAM**

Suitably designed Web-sites are usually required to allow cellphones with their small screens to be viewed properly. These are called WAP-sites. WAP or 'Wireless Application Protocol' is the protocol used to send and receive certain data over cellphone networks.

If one considers that at today's prices for data, and assuming the cheapest cellphone package, one could easily view over twelve cellphone screens of text for about 1 or 2 cents.

Remember that one will not pay for the time connected, but for the amount of data sent or received. You could stay connected all day and view one or two screens in that time and only pay one cent!

But what could be interesting enough to view to do that sort of exercise?

Dick, ZS6RO, has recently designed a WAP-site which anyone who has a WAP-enabled cellphone can visit, from about anywhere in the world. The WAP Home-Page menu links the cellphone user to various pages.

One link called 'DX-SPOTS' will bring back a screen with the latest five DX-Spots from the International DX-Cluster network. As the DX-Spots come in from the DX-Cluster network, the user can refresh his cellphone screen and see the current spots straight away.

Another link called 'DX-Callbook' will allow the user to enter a callsign, local or DX and get a screen showing that callsign's information. One can also access the same callbook database by sending a packet message to ZS0MEE BBS where an automated packet message will be returned with the callsign information.

Think of the possibilities when you are

on your next field-day trip with your radio gear and cellphone.

There is a link to the weather anywhere in the world but defaults to South Africa on start-up. There is also a link to top South African News items as well.

To access Dick's WAP site from a WAP-enabled cellphone, use the URL "[www.zs6ro.co.za](http://www.zs6ro.co.za)" - if that isn't successful, add to the URL "/index.wml". The reason you may have to add to the URL is because some cellphone micro-browsers are not always recognised correctly by WAP sites.

As a matter of interest, if one uses the same URL just mentioned on a standard desktop PC, the user will be directed to Dick's WebPage on the Internet which contains other ham-related information.

### **GAREC-2006 IN TAMPERE IN JUNE**

The second Global Amateur Radio Emergency Communications Conference is scheduled to take place in Tampere, Finland from 19 to 20 June.

This event will parallel the International Conference on Emergency Communications, which will review the present status of implementation and application of the agreement known as the Tampere Convention on the Provision of Telecommunications for Disaster Mitigation and Relief Operations. This is an international treaty, adopted by the ICET-98 Conference in Tampere in 1998.

The former Secretary-General of the International Telecommunication Union is chairing the organising committee. Of particular interest to participants from outside of Europe is that this date is just before HamRadio-2006 in Friedrichshafen Germany, announced

for 23 to 25 June.

### **SARL UPDATES ITS COMMUNICATIONS**

The SARL has updated its communication facilities to further streamline email, voice and fax communication with the office and councillors. With immediate effect the fax number has changed with the introduction of Telkom's mail manager plus.

The new fax number is 088 011 675 2793. Faxes are routed directly to the SARL email system.

The answering machine has been replaced with voicemail which is more efficient and faster to handle. When the office administrator is not available to take the call directly, callers answered by voicemail are requested to leave a concise message and a landline number if the matter requires a call back.

To assist the SARL in managing telephone costs, please leave a landline number and only a cell numbers if no landline is available.

Email is the most efficient way of communication with the SARL office and Council. Address all matters for a Councillor's attention to [secretary@sarl.org.za](mailto:secretary@sarl.org.za). The secretary will route the email to the correct person and track the correspondence.

If you have admin matters such as change of call sign or address, RAE registrations etc please address the mail to [admin@sarl.org.za](mailto:admin@sarl.org.za). If you feel you need to write to the SARL President, address the mail to [president@sarl.org.za](mailto:president@sarl.org.za).

### **HARC SPECIAL EVENT STATION AT A1 GRAND PRIX**

Last year, Durban was selected as the venue for the first A1 Grand Prix event to be hosted in South Africa – one

of only 12 nations to host a round of the inaugural A1 GP series. The event was held on the Durban beachfront in the vicinity of the Suncoast Casino at the end of January.

The HARC operated a special event station for the weekend of the A1 Grand Prix, and there will be other occasions during the year that it is used. A special QSL card will be sent to each station who has made contact with the station during 2006, so if you want one of these limited edition cards, and you worked ZS5A1GP on phone or CW, send them your card.


I listened a fair amount but was unable to detect ZS5A1GP here. Maybe others did.

### **BANDPLANS ARE AGREED INTERNATIONALLY FOR YOUR BENEFIT**

Band plans are not just some arbitrary arrangements of the amateur bands, but are the outcome of an extensive consultation process at IARU meetings. Band plans are gentlemen's agreements that divide the HF band into segments for various modes.

"Adherence to the band plans ensures that all amateurs derive the most pleasure from the allocated spectrum," Dennis Green ZS4BS said during his Intecnet presentation recently.

New centres of activity for emergency communication were also introduced. These are 3760 kHz, 7060 kHz and 14 300 kHz. Some problems were raised with respects to club bulletin frequencies, which are affected with the introduction of new emergency centre of activity frequencies.

Dennis Green will consult with clubs in the near future to derive a new allocation plan. 

To those celebrating special days (19 Feb to 18 Mar) we hope you'll

**Enjoy Your Day!** 

... on your birthdays

**February**

- 20 Vic Batt ZR2BBH
- 26 Henry Danielson ZR2HPD
- 26 Yvonne Rhodes, XYL of Chum  
ZS2VU
- 29 Wolfgang Gerstle ZS2WG

**March**

- 3 Daphne Galpin, XYL of Paul  
ZS2PG
- 13 Magret Ras, XYL of ZR2MR
- 14 Ali Mathieson, XYL of Ewan  
ZS1EM (currently overseas)
- 15 Susanna Bosch, XYL of Mike  
ZS2FM
- 16 Anne Butcher, XYL of Graham  
ZS2GIB

... on your anniversaries

**February**

- 24 Barbara and Bill Hickson  
ZR2WJA
- 27 Nina and Serge Smetryns  
ZR2SJE

**March**

- 3 Anne and Graham Butcher

ZS2GIB

3 Teresa and Tim Joubert

ZR2TW

4 Pamela and Jack Koen

ZR1JAC

15 Cheryl and Arno du Preez


ZS2ABT



**New Member:** Vaughn Luppnow, ZR2VL, of Uitenhage has joined our ranks. Nice to have you with us, Vaughn.

**Sick:** Gus Winter ZS2MC collapsed in the bathroom and was in hospital recently suffering from a bleeding duodenal ulcer. It all started out with gout, which was being attended to.

**New Callsign:** Graham Butcher ZR2GIB has had his callsign changed to ZS2GIB, having done more than enough radio work at the various rallies.

**Gone on Holiday:** Judy and Ken Tremeer ZS2BWB are leaving for a few weeks in Pretoria to visit their family. They will also get their visas for the United States at the same time. 

## Your Society's Committee

Chairman .....	Al Akers ZS2U	360-2983	makers@firestone.co.za
Vice Chair, Awards.....	Rory Norton ZS2BL	585-9330	rory@commco.co.za
Secretary .....	Chris Scarr ZS2AAW	368-1344	cvscarr@intekom.co.za
Treasurer; Assets Control.....	Clive Fife ZS2RT	367-3203	cfife@absamail.co.za
Repeaters, packet, .....	Chris Scarr ZS2AAW	368-1344	cvscarr@intekom.co.za
Refreshments .....	Bill Hodges ZS2ABZ	581-2580	whodges@absamail.co.za
Contests .....	Al ZS2U, Barry ZR2DX, [+ Mike Bosch ZS2FM (581-2425)]		
Other Committee Members.....	Ewald Bouwer ZS2EHB (082 411 2743);	(933-3482);	Glen Cummings ZS2GV
Social, Special Events .....	Committee		
QSX printing and info .....	Ashley Goosen ZR2AG	468-0887	ashleygoosen@xsinet.co.za
QSX Editor (ex com).....	Garth Laaks ZS2HB	368-1101	glaaks@iafrica.com
QSX distribution (ex com) .....	Trevor Scarr ZS2AE	367-1746	t&j.scarr@intekom.co.za
Technical Classes (ex com).....	Paul Galpin ZR6ACV	372-1779	galpinp@absamail.co.za
Internet Website (ex com) .....	Barry Murrell ZR2DX	581-3561	zs2ez@axxess.co.za

## PEARS' VHF/UHF & Other Services

### REPEATERS

Town VHF.....# 145,050/650	Cradock .....	145,050/650	Noupoort .....	431,150/438,750
Town UHF..... # 431,050/438,650	Grahamstown .....	145,150/750	Plettenberg Bay .....	145,175/775
Brenton .....	Kareedouw .....	145,125/725	Uitenhage# .....	145,075/675
Cockscomb .....	Plettenberg Bay .....	145,075/675		
Colesberg .....	Lady's Slipper.....	145,100/700		

Most of these form the PEARS long-range 2-metre repeater system, also linked to which are East London 145,775 MHz, George 145,700, Danabaai 145,600, Stilbaai 145,750, Butterworth 145,725, King Williams Town 145,625 and Mthatha (438,725 duplex). It is further extendable to Cape Town via the WCRWG system.

# These can also be linked as required.

### OTHER SERVICES

Packet Bulletin Board (ZSØNTP) .....	144,625
Packet Rose Switch ZSØGHT-3,046101 (144,675 in/out) or 046102 (UHF out to BBS).....	144,675
2m Beacon (ZS2VHF CW ID, FSK) (horizontally polarized, 20W ERP,).....	144,415
6m Beacon (ZS2SIX CW ID) (horizontally polarized, 25W ERP).....	50,005
6m Simplex Link with Lady's Slipper 2m Repeater (vertically polarized).....	51,400

## 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 Butterworth to George and up to the Free State and their environs. PEARS' 7098 or 3640 kHz transceive facilities are also remotely linked as needed. In addition, the SARL's 40m operations on 7082 or 7066 kHz or Hammet's 7070 kHz can be remotely patched to the 2m network, in receive-only mode or with full transceive capability for interactive events.

Date	Prepare and Read on 2m Repeater Link	DIARY DATES <b>FEBRUARY</b>
12 Feb	ZS2EHB	11-12 SARL HF Field Day
19	ZR2GV	<b>16 PEARS MONTHLY MEETING</b>
26	ZS2U	<b>MARCH</b>
5 Mar	ZS2BL	<b>2 Wrinkly Rave</b>
12	ZS2RT	17-19 SARL VHF/UHF contest
19	ZS2ABZ	

\* We like being your Society \*