

QSL PE



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

WEBSITE: www.qsl.net/zs2pe

**PO BOX 10402
LINTON GRANGE
6015**

OCTOBER 2005

PEARS' MONTHLY MEETING

The monthly general meeting of the PORT ELIZABETH AMATEUR RADIO SOCIETY will be held on **Thursday, 20 October 2005** at the St Hugh's Church Hall, Newton Park, starting at 20:00 (8 pm).

We will hear from Paul Galpin, ZR6ACV, on his experiences in broadcasting, first overseas and then in South Africa.

Tea, coffee and biscuits will be laid on by Bill ZS2ABZ and all you are required to do is drop a couple of bob into the container that he provides for the purpose.

This will be the last real meeting of the year, because at the November meeting business will be disposed of as quickly as possible and the rest of the evening will take the form of a party. Watch next month's issue of QSX for details.

We will not have a meeting in December.

Wrinkly Ravers

Last month I spoke about the *October* Rave. Of course, that should have been the *September* one!

At the October get-together we had eight members doing their thing. In spite of the relative smallness, and since most of the chaps I spoke to last month were in favour of an 'away' meeting, we agreed to hold the next Rave - the November one - at Jeffrey's Bay.

We decided on the first SATURDAY of the month, i.e. 5 November, so the **Smoothies will be welcome** too. We should meet at 11.30 at the car park where Marina Martinique *almost* meets the sea. From there we will be led to the eating spot.

By sharing any spare space in our cars, the fuel will work out a little cheaper. Please work this aspect out among yourselves, as I'll be away during the latter part of October into November and can't act as go-between.

Peter ZS2PL has agreed to chat to the local eating places there and let me know what's potting, so listen to the various bulletins for final details. We must have definite bookings, though, so the management knows more or less what to expect.

Transceiver Operating Test

This test needs to be passed by all aspiring amateurs, as well as those who wish to upgrade from a ZR licence to a ZS licence.

A test was held at the QTH of Bill ZS2ABZ on Saturday afternoon, 1st October, and it is pleasing to report that the following members were successful:

Paul ZR6ACV,
Vic ZR2BBH,
Eric ZR2ECH,
Tim ZR2TW and
Terrence ZR2VDL.

This is but the first step and some of those who have passed so far have taken the trouble to complete the requirements for upgrading. There are others, though, who have not done so and need to contact me in order to get their upgrading processed.

Al, ZS2U.



Membership of our Club is somewhere around 150. Attendance at club functions, however, leaves something to be desired. For instance, we get around twenty members at our monthly meetings.

Admittedly, there are valid reasons for not being able to attend, such as being away on business, illness, or staying far from the venue, but it is difficult to believe that this applies to so many of our members.

Even just your attendance at club functions helps to keep the show on the road, so please make the effort to do so.

Two events to keep in mind are the usual club meeting on Thursday evening, 20th October, and our group braai at The Island picnic spot on Sunday, 30th October.

Subscriptions

As from this financial year the club subscription has gone up to R60. Apparently, a number of members are unaware of this and paid only R50.

Please check that you have paid the new subs and, if not, let the Treasurer have the difference. Thank you.

73

Al, ZS2U

A conversion of the rebroadcast unit at the QTH of Tim ZR2TW has been done by Glen ZR2GV, with no doubt some help from Tim.

This unit acts as a cross-band 6m/4m repeater. The 6 metre transmit and receive is on 52,950 MHz, using PRC77 or A44 sets and makes use of tone operated squelch.

The 4 metre transmit and receive side on 70,250 MHz makes use of an AS1000 set which of course is normal signal operated squelch and can be accessed with any AS1000 set or similar set.

This unit is particularly useful for the Wednesday evening nets on 52,950 MHz as those who do not have tone operated squelch sets may join the net via 70,250 MHz.

It will also provide wider coverage for these nets.

Of course it can also be used at any other time as well.

73

Al Akers, ZS2U
Provincial Director:
Hamnet/ECARES

PHYSICS VISIT

On Wednesday evening of the 21st September, some ten amateurs paid a visit to the Physics department of the Nelson Mandela Metropolitan University.

Firstly, a young lady demonstrated the scanning electron microscope and showed us enlarged views of a fly. As this is done in a vacuum, the fly would give off particles and spoil the operation, so it had first to be gold-plated.

Some members wanted to know if they could have the fly after the demonstration!

We now have a more expanded view of flies. I never knew, for instance, that flies have hairs growing out of their eyes! What's more, these hairs have spikes growing from them.

I do not know what the maximum magnification demonstrated was, but it enabled us to see one of the spikes on one of these hairs.

We then had a talk and were shown the solar panels which were being developed. The material used here is copper-indium (gallium)-diselenide, which is not as efficient as the material normally used to produce solar panels. It is, however, easier and therefore cheaper to produce and also results in smaller panels.

We also saw the simulated solar radiation unit which is used to test the solar panels.

A most interesting visit and thanks go to the Physics staff involved for their efforts. 📷

OUTING at The ISLAND Picnic Spot


This will take place from 10h00 on Sunday, 30 October at The Island forest reserve picnic spot, which is on the Seaview road.

It is planned to have several stations active in the morning, and as it is the weekend of the CQ Worldwide SSB contest, there will be plenty of activity on the HF bands.


We intend to provide contestants with points and this should provide the opportunity for those who are new to HF contesting to see how it's done.

In the afternoon there will be a bring and braai, which means you bring all your own eats, drinks, utensils, etc.

We will provide the braai fires.

Come along and join in the fun. 

Some More Answers to School Questions:

- * Jesus enunciated the Golden Rule, which says to do one to others before they do one to you.
- * The Epistles were the wives of the apostles.
- * Samson was a strongman who let himself be led astray by a Jezebel like Delilah.
- * Moses led the Hebrews to the Red Sea, where they made unleavened bread which is bread without any ingredients. 

HAM RADIO OUTLET – SOUTH AFRICA

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e-mail: hro-sa@absamail.co.za

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6025
Republic of South Africa

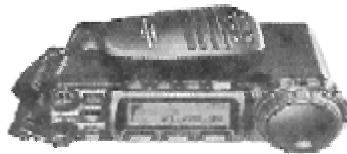
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Member: Donovan van Loggerenberg

**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
15 September 2005

Welcome:

The Chairman welcomed everyone to the meeting (15 present).

Present and Apologies :

As noted in the attendance register, including ZR2VDL, ZS2WG, ZS2BL, ZS2DL, ZS2HB.

Acceptance of Previous Meetings Minutes :

6 members have passed the operating assessment so far, but are yet to be upgraded.

Only one student reported to be doing the RAE.

Proposed : ZS2EZ Seconded : ZS2DK.

Matters Arising:

UPE visit scheduled for the following Wednesday evening. Outing to the Island scheduled for 30 October.

Correspondence:

In: Returned QSX from ZR2ABT
 Repeater licence for Theesecombe
 Some Club Newsletters

Out: Fax to ICASA acknowledging the Kareedouw Inspection notification.


Finance:

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

General:

Trevor asked about the 35 members that have not renewed their membership for the year. Trevor to pass a list to Al for him and others on committee to take up.

The business of the meeting was concluded at 20h16, and tea and refreshments was enjoyed by all.

After the break Al presented a talk on the transmatch. 

Double Current Keys

by Mike Hanslow, ZS1RMS

The European landline keys used an open telegraph circuit line while the Americans would use a closed telegraph circuit line. The American system, working from a gravity battery circuit, would have to put out a small constant current into a closed circuit when not in use.

The Europeans, using dry battery cells, would require an open circuit. Using dry cells required less maintenance but would rapidly drop down if they were used in a closed circuit. This would explain the absence of a shorting bar on all European keys.

All the key would have to do is to 'make' and 'break' a telegraph line. In a Double current key however the voltage is applied to the line when the key is up as well as when the key is down, reversing the polarity of the voltage between the "mark" and "space".

The rates of charge and discharge of the telegraph line are accelerated as compared to a non-polar systems. Double current systems generate cleaner signals and permit higher transmission rates. Double current keys stem from the mid 1870's.

One can quickly identify a Double Current key by the prominent glass dome. This dome would provide protection to the intricate switching mechanism. When in receive mode, the key would provide an open circuit to the line but when you select to send, the key would switch between a positive and negative current source, hence the name double current.

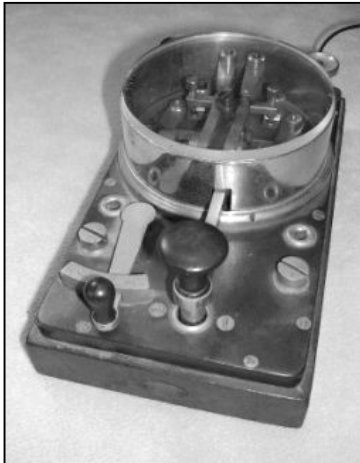
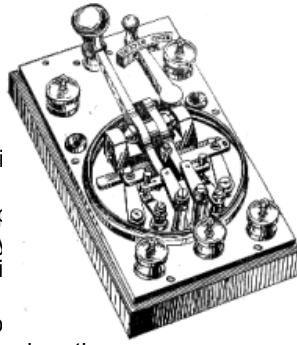
The telegraph operator would monitor what he is sending by monitoring the galvanometer's needle swing left and right. This would determine if he was actually applying current to the line when transmitting. The galvanometer was also used to determine the presence of an incoming signal even if the sounder was incorrectly adjusted.

The Sounder was a device for receiving the signal. Every time a Morse key was pressed, the sounder at the other end of the line made a corresponding 'click'.

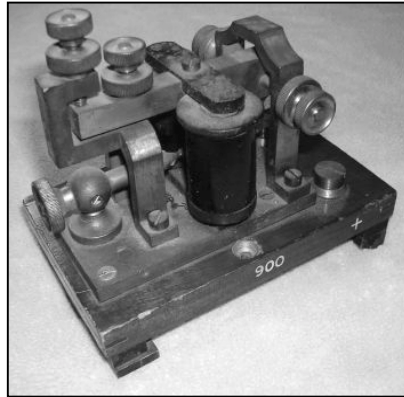
The sounder consisted of an electromagnetic coil and a soft iron armature which created a "click" sound when current passed through the coil. When

the current stopped flowing, the spring brought the armature back up to its original position, creating the second "click".

* Information sourced from
<http://www.telegraph-office.com/>
<http://www.faradic.net/~gsraven/tools/tools4.html>
<http://www.porthcurno.org.uk/html/object2.html>



An example of a British GPO Double Current Key used in South Africa.
(Photo Author)



An example of a British GPO Sounder used in South Africa. The 900 indicate the coil resistance.
(Photo Author)

TINYTRAK – GPS – PC Switch

from Johan Terblanche ZS1I

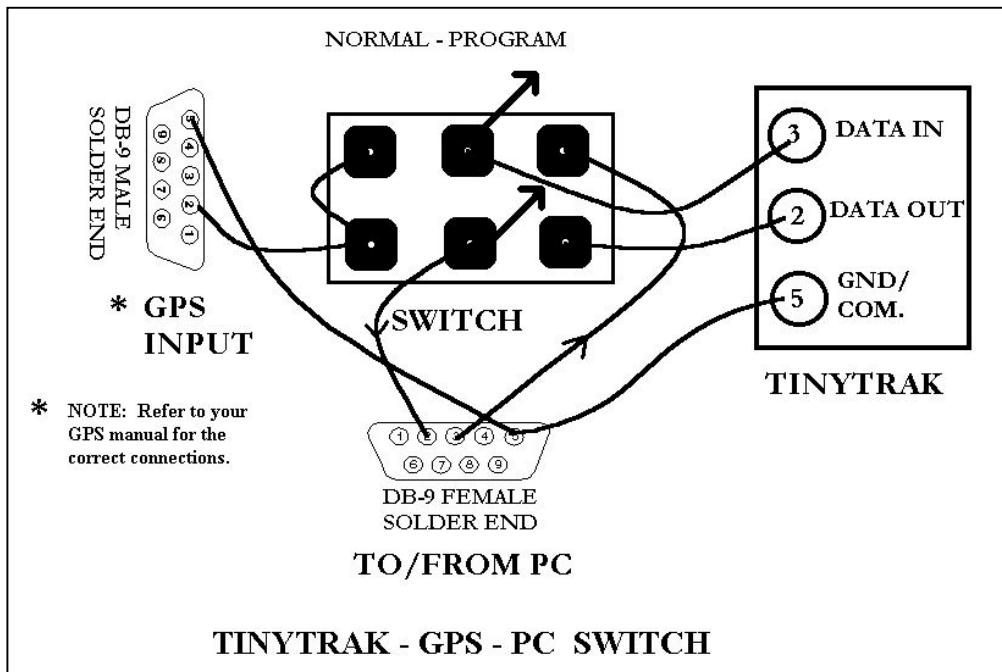
While browsing the Internet, I came across the schematic as illustrated in the figure below.

With APRS gaining popularity this switch can be of great help in saving time and possibly curbing frustration having to “plug and play” various cables and gender plugs to deal with different pin configurations.

The schematic diagram is fully illustrated, but for further clarity, take note of the following:

1. Refer to your GPS manual to ensure the correct pin connections at the DB-9 male connector. (GPS INPUT)
2. In *NORMAL* mode, GPS data goes to both the TinyTrak and to the PC.
3. In *PROGRAM* mode, GPS is disconnected and TinyTrak is connected to PC.
4. TinyTrak input impedance is very high so it can be paralleled across GPS PC data line with no problem.

I trust that the TINYTRAK – GPS – PC SWITCH will resolve those “irritating plugging” of connectors, especially when the PC is not always easily accessible.



FM STATIONS AS VHF BEACONS

By Mike Bosch ZS2FM

The main purpose of VHF, UHF or Microwave beacons is to indicate very long distance band openings. Short range openings can readily be observed by monitoring FM broadcast stations or activating repeaters within a 300 kilometre range or so depending on terrain. The problem is to identify a distant FM broadcast station, its frequency and direction, since there are numerous FM stations spread out all over the country.

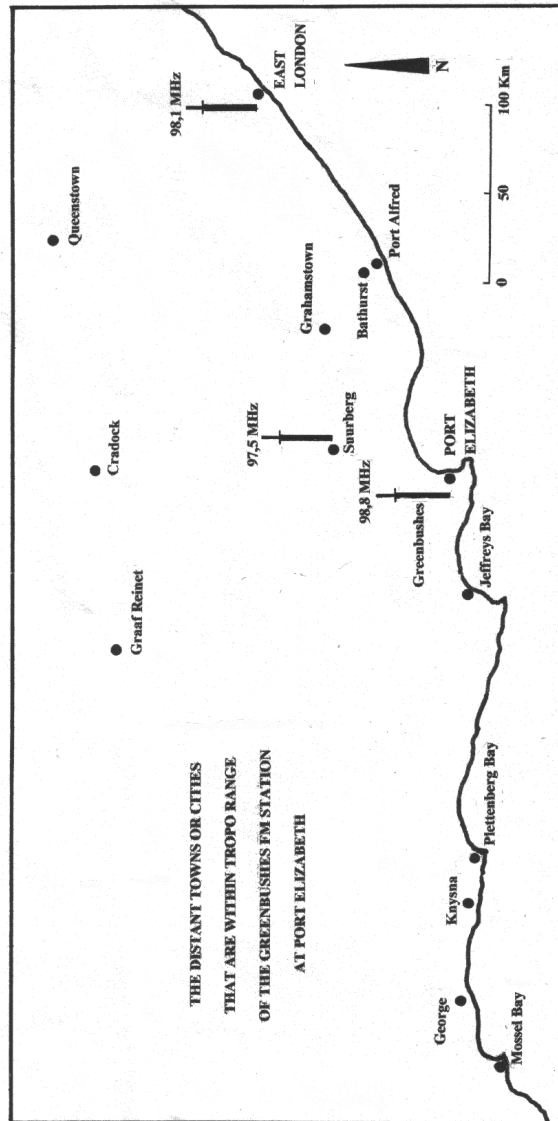
The writer has selected a bouquet of Radio 2000 FM stations in the Port Elizabeth and East London areas for detecting Tropo openings. They are: Suurberg - 97,5 MHz, East London - 98,1 MHz, and Greenbushes - 98,8 MHz and they are on the air 24 hours a day.

The East London FM station often comes through very strongly and can then be picked up even on a portable or a car radio. The writer has followed the Greenbushes FM station at Port Elizabeth by car radio as far as Knysna, and there is no reason why it cannot be received in Mosselbay under favourable conditions.

Those who live in Graaf Reinet or Cradock should first concentrate on Suurberg and then look for Greenbushes. Queenstown amateurs are better situated to monitor the East London FM station.

It is recommended that amateurs who live in those northern towns, should use multi-element FM beam antennas that are polarized vertically to enhance the weaker FM signals.

Tropo openings occur during temperature inversions when a cold layer of air slips in underneath a warmer layer. VHF or even higher frequency radio waves are then refracted and propagated over longer distances. When cold air rushes in from the sea in the late afternoon, a temperature inversion



could occur below 500 metres above ground level, to propagate strong 2 metre signals between Port Elizabeth and East London or between Durban and East London.

Short range openings are also possible during the daytime, so keep an eye on those distant FM stations.

Long distance Tropo openings are possible on 2 metres, or higher, when a temperature inversion occurs between 500 and 2000 metres above ground caused by an approaching cold front. Under these conditions contacts have been made on 2 metres from Port Elizabeth to Natal and as far afield as Richards Bay, all thanks to our ZS2VHF beacon that alerted the Natal stations.

John ZS2AH of East London pioneered regular FM skeds with Durban and later also ran nightly skeds with the writer. It was soon realized that almost every Ham in the country was equipped with a 2 metre FM transceiver, but only a handful could operate on SSB.

This motivated the writer, who was the VHF manager of the SARL at the time, to request Council to grant us a long distance FM channel on 144,400 MHz with the main purpose of encouraging long distance simplex operation on VHF.

Since then many 2 metre FM operators constructed horizontally polarized beams and became interested in long distance skeds.

In 1987 the writer, who was a keen 6 metre enthusiast, asked the Port Elizabeth branch to erect a 6 metre beacon, but they were not the least interested in 6 metres. The writer then approached the opposition Algoa branch and got all the support necessary.

Al ZS2U, who was employed at the University of P.E. at the time, pulled a few strings and the authorities granted us permission to erect the beacon on top of the main building. A number of amateurs donated equipment: Etienne ZS6Y gave us a 25 Watt 6 Metre linear and ZS2OD

the power supply, a PRC261 portable FM rig with PSU and a dipole antenna came from Al ZS2U, Brian ZS2AB constructed the keyer, Owen Wheeler ZS2HZ (now G0NCE) supplied and hauled up a 6 metre water pipe mast to the top of the 20 storey UPE main building.


Finally Al and the writer installed the beacon, and it operated under the call sign of ZS2SIX on a frequency of 50,005 MHz. This beacon has been a success story, and its signals have been reported from all over the world during F2 propagation at the peak of sunspot cycles. More recently a report was received from Spain when it was heard via Trans-Equatorial propagation.

The old Port Elizabeth branch ran a low power 2 metre beacon with a vertical antenna which only covered a short range. They were forced to remove this beacon from a building in the centre of the city. In the meantime the two local branches combined and later changed their status from a branch to a club – PEARS.

Al and the writer decided to install a long range 2 metre beacon also on top of UPE building. Chris ZS2AAW donated a 25 watt transmitter for this purpose. Lionel ZS2DD built the keyer, Al constructed a 5-element horizontally polarized beam; the two of us mounted it on the same water pipe. The beacon is operating under the call sign of ZS2VHF on a frequency of 144,415 MHz.

ZS2VHF has been heard in all six divisions of the RSA. Regular reports came from Dave ZS5DJ in Ramsgate and Paul ZS6NK in Polokwane (Pietersburg) until recently, when a faulty beam antenna was replaced with a dipole.

Maybe we can twist the arm of our chairman to build another robust and weatherproof 5-element Yagi that would make the 2 metre enthusiasts happy again in the Free State, Natal and Transvaal.

By the way, this 2 metre beacon can also serve as a good indicator of band openings for 4 metres (70 MHz). 

Pearstalk



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

LARGE DONATION BOOSTS THE SARL IARU FUND

The SARL IARU Fund has received a very handsome donation from an *anonymous* donor. The person contributed R15 000 to the fund, which takes care of the IARU Regional conference fund requirements and sets the fund on the road to meet the 2006 IARU membership fee.

The SARL, the South African Amateur Radio Development Trust and PEARS are duly grateful for this great support, although one wonders why a donation of this magnitude should remain anonymous. It seems that it was offered a while ago, however, because it also covered some of our costs for attending the Regional IARU conference.

RESULTS OF THE 2005 SARL HF CONTESTS

The contest committee has released the provisional results of the 2005 SARL HF Contests.

In the HF Phone Contest Single Operator and also in the HF CW contest Single Operator we find Bud Voortman ZS1B. an old East Capenaar, taking third place in each contest. First place was taken in both contests by Hans ZS6KR.

ICASA MAY SOON HAVE A NEW NAME

ICASA, the Independent Communications Authority of South Africa, may soon have a new name when the ICASA amendment bill is passed in Parliament

during the fourth sitting starting on 10 October.

The bill seeks to strengthen the Authority to make it capable of responding to the changing communications landscape, particularly in view of the more converged and competitive environment.

The Bill will provide for a name change to the Electronic Communication Authority of South Africa.

Amongst other provisions, the Bill seeks to provide for new, faster and more focused procedure for the appointment of the chairperson and other councilors of the Authority, and provides for the establishment of a Complaints Committee and the appointment of Inspectors.

The proposed bill does not seem to have any impact on amateur radio, but the SARL will study the bill.

HAS AMATEUR RADIO POSITIVELY INFLUENCED YOUR CAREER?

Has amateur radio played a role in your career choice or positively influenced your work performance? If so, the Amateur Radio Mirror International would like to hear from you.

They are preparing their new programme aimed at making amateur radio more visible to the public and attracting newcomers into the service. Send an Email to armi@sarl.org.za with some details and contact telephone number. The Amateur Radio Mirror International team will contact you and

arrange a telephonic interview.

The stories will be featured in a new slot called Focus on Amateur Radio and also featured on the SARL web in print and streaming formats.

DIVISIONAL ADVISORS FOR HF MATTERS

The following amateurs are interested in being Divisional Advisors for HF matters:

ZS1 – Louis ZS1LVH and Pierre ex ZR1PDT, now ZS1HF.

There are no takers at present for ZS2, ZS3, ZS4, ZS5 or ZS6.

If you are keen, please let Dennis ZS4BS know. He can be contacted at www.sarl.org.za and www.zs4bfn.co.za

AO-51 SPECIAL EVENT FOR JOTA WEEKEND 15-16 OCT

The annual Scout and Girl Scouts "Jamboree on the Air" Amateur Radio event is scheduled for 15 and 16 October 2005. We in Port Elizabeth will not be taking part as there has been no reaction from the side of the Scouts.

However, this is an International Scouting event, and amateur radio stations around the world will participate.

It is understood from the Voortrekkers that there are more than 20 stations already arranged for 14 and 15 October. Bloemfontein will have two stations operating. Voortrekkers in Namibia will also be active.

The AO-51 command team is scheduling the satellite for exclusive use by the Scouts, and Satellite operators communicating with the Scouts, for this weekend. Please allow the Scouts the opportunity to make as many contacts as possible via AO-51 during this short time period.

Base stations, please remember that most of the JOTA stations will be port-

able, so please use minimum power.

The official times for the JOTA event will be from 00:00 UTC on 15 October until midnight UTC on 16 October 2005.

SPECIAL EVENT STATION ZS1SALT

The official opening of the "South African Large Telescope", situated near Sutherland, will take place on 10 November 2005.

The Boland Amateur Radio Club will run a special event station with the call sign ZS1SALT from the SALT site. For security reasons the station can only be operated on the time slot 21 to 23 October 2005. Activity will be on all HF bands.

QSL cards can be sent directly, with the necessary return postage, to ZS1SALT, PO Box 273, Strand, 7139. Only those direct QSLs with the required return postage will be answered.

South African amateurs can make use of the electronic QSL service of the SARL to confirm contacts with ZS1SALT.

Visit www.salt.ac.za for more information about the South African Large Telescope.

2006 SARL AGM

The SARL is asking whether any clubs might like to host the 2006 SARL Annual General Meeting in early April 2006.

Is PE geared up for such an event as it has done on various occasions in the past? If so, the Committee is asked to contact Henry, ZS1AAZ, at secretary@sarl.org.za with the plan of action.

LADIES ON THE AIR

A new website has been set up for women radio amateurs. The brainchild of Jackie Bosworth, M3JTO, the website,

called Ladies on the Air, provides female hams with a place to discuss their hobby.

Jackie, who gained her foundation licence in May, launched the website with the aim of encouraging more women to participate in amateur radio.

She said: 'After noticing that there aren't too many women in this hobby, I decided to create a forum just for the ladies. It's still in the early days but we already have members from Malaysia and USA!'

Ladies on the Air is open to any woman who is interested in amateur radio. Membership is free. The site includes a discussion area, a hints and tips section, advice on solving amateur radio problems and a place where members can post pictures.

The address is:


www.ladiesontheair.proboards37.com/.

We once had the good old South African Women's Radio League running very actively here at home, with its own monthly magazine, regular get-togethers and their own AGM. This coincided with ours, which was held over the Easter weekend.

I believe it was the second amateur radio ladies organisation in the world.


QSL BUREAU

Have you supplied the QSL Bureau with sufficient self-addressed stamped envelopes for your incoming QSL cards?

There are some members who, after being contacted, have still not claimed their cards. Some of the cards have been at the bureau for two years. 

CORRECTION

In last month's QSX we provided an item on the design of a three-element, four-metre beam.

Unfortunately, the value of the capacitor in the matching section was not quoted. This should be a 50 pF trimmer. 

FOR \$ALE ★ WANTED ★ SWOP

SWOP

* A mint condition SWAN 500C Transceiver complete with Power Supply and Manual to swop for a Heathkit SB104 Transceiver with P/S and Speaker. The Swan is a later version of the series and is capable of 520 Watts PEP, minimum input on all bands 80 –10 m. — Call 041-360 3053 or e-mail zs2h@absamail.co.za

FOR SALE:

* 12v 20A dc psu, R800.00; Astatic D-104 Mic with switch, R250.00; Astatic D-104 Mic without switch, R150.00; Mains power supply for KW Atlanta, R300.00 — Contact Phil Kauffmann-Sorensen in East London at 072724 4923 or 043-726 1689.

To those celebrating special days (4 Oct to 19 Nov) we hope you'll

Enjoy Your Day!



Due to a computer glitch, the following bods were not mentioned on this page last month. The computer says "sorry!" and will try not to do it again:

Birthdays: October 4 to 12:

- 4 Donovan van Loggerenberg ZS2DL
- 6 Colin Ashwell ZS2AO
- 6 Barry Griggs, XYL of ZS2ABK,
- 8 Vanessa Scarr ZR2VM
- 9 Pamela Koen, XYL of ZR1JAC
- 10 Anne Dowler, XYL of ZS2XF
- 12 Bert von Rahden ZS6LP

12 Neil Thomas ZR2NT

Anniversaries: October 6 to 12:

- 6 Judy and Ken Tremeer ZS2BWB
- 9 Kay and Fred Strutt ZS2JS
- 10 Anne and Terence van der Linden ZR2VDL
- 12 Rosalie and Donovan van Loggerenberg ZS2DL

... NOW, on your birthdays

October

- 24 Kathy Gerstle, XYL of ZS2WG
- 25 Jim France, ZS2JF
- 26 Stoffel Carr, ZS2C
- 27 Ria de Vos, XYL of ZS2ABY
- 29 Pat Pullinger, ZS2PJP
- 29 Noel Staples, ZS2AAS

November

- 5 Andre Botes ZS2ACP
- 6 Viv Moore ZS2VM
- 6 Anne van der Linden, XYL of ZR2VDL (her first one in Queenstown)
- 8 Martin Ras, ZR2MR
- 9 Jeanette Mulder, XYL of ZS2AJ
- 14 Dot Clarke, XYL of ZS2MF
- 15 Richard Borello, ZR2RB
- 17 Cheryl du Preez, XYL of ZS2ABT
- 18 Martha Terblanche, XYL of ZS11



... on your anniversaries

October

- 24 Jo ZS2W and Al Akers ZS2U
- 25 Martie and Richard Borello, ZR2RB
- 27 Maxie and André Crouse, ZR2A
- 29 Helen and Noel Staples, ZS2AAS

November

- 1 Martha and Johan Terblanche ZS11
- 3 Dot and Ron Clarke, ZS2MF
- 5 Betty and Isaac Greeff, ZS2ZG
- 17 Joan and Barry Jackson, ZS2H
- 19 Jeanette and André Mulder, ZS2AJ



Congrats go to Neels du Plessis, ex ZR2ABT, now upgraded to ZS2ND.

Found and Lost: Our committee member Terence van der Linden ZR2VDL has been promoted to Queenstown from end October. Congrats, Terence. 🎉

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 (933-3482); Terence van der Linden ZR2VDL (042 233-1859); Glen Cummings ZS2GV (082 411 2743)		
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	zr2dx@mweb.co.za

PEARS' VHF/UHF & Other Services

REPEATERS

Town VHF.....	# 145,050/650	Knysna	* 145,075/675
Town UHF.....	# 431,050/438,650	Lady's Slipper	* 145,100/700
Cockscomb	145,000/600	Noupoort	* 431,150/438,750
Colesberg	* 431,075/438,675	Uitenhage	# 145,075/675
Cradock	* 145,050/650		
Grahamstown.....	* 145,150/750		

* 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 Umtata (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 Hamnet'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
16 Oct	ZR2GV	<u>OCTOBER</u>
23	ZS2U	20 PEARS GENERAL MEETING
30	ZS2BL	15/16 JOTA, CQ HOU KOERS, JOTI
6 Nov	ZS2RT	21/23 Special event station ZS1SALT
13	ZS2ABZ	<u>NOVEMBER</u>
20	ZS2EHB	3 Wrinkly Rave

* We like being your Society *