



Q S X P E



THIS NEWSLETTER IS PUBLISHED BY THE
PORT ELIZABETH AMATEUR RADIO SOCIETY

WEBSITE: www.qsl.net/zs2pe

PO BOX 10402
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6015

AUGUST 2005

PEARS' MONTHLY MEETING

The monthly general meeting of the PORT ELIZABETH AMATEUR RADIO SOCIETY will be held on **Thursday, 18 August 2005** at the St Hugh's Church Hall, Newton Park, starting at 20:00 (8 pm).

Al Akers, having described a couple of his own half-an-hour construction items last month, will invite a members to do the same on any ham radio item that they have found useful. Circuits that might be of some use to members will be made available in following issues of QSX of items. Some may have one or two transistors, but others will have none.

Bill ZS2ABZ will do the usual to give us tea, coffee and num-nums.

Wrinkly Ravers

Fifteen members attended the August get-together, and there was quite a bit of re-arranging of the various tables to accommodate us. The first-comers, particularly Ken ZS2BWB, and Cyril ZS2EJ suggested that those further down the tables needed to SMS the others when they wanted to speak.

The September Rave will take place on Thursday, 1 September 2005, just after pay-day! See you all there, at Barney's, in the shopping complex in Circular Drive, Lorraine.

I wonder whether we should not think about holding one of our Raves at Jeffrey's Bay again. Last time it went off with a bang. Petrol is a bit more expensive but we can pool our cars and individually get there quite cheaply!

FOR SALE ★ WANTED ★ SWOP

FOR SALE

- * Icom 728 HF SSB transceiver R3750-00; Uniden 2020 HF SSB transceiver with external VFO R800-00; Major MSB6205 SSB CB, 9 channel R150-00; Commercial Power Supply 13,8 V 20 Amp R400-00 (R250-00 if accompanied with the ICOM 728); Kenwood SP-180 speaker with filter select R100-00; Daiwa CN720 cross needle power SWR meter (20, 200, 2KW), large meter R300-00 — Enquires should be directed to Mike Hanslow, ZS1RMS, Email zs1rms@yahoo.co.uk or tel. 073 389 1300, 044 873 2543 (H) or 044 876 9280 (W). Please contact Mike even if the price is not right. Prices may become negotiable. *Courier costs will be at owner's expense.*
- * Kenwood TR751 VHF all mode transceiver, Kenwood TR851 UHF all mode transceiver, both in excellent condx and with user and service manuals, R3500 each — Contact Beavan ZS2RL on 083 445 7647.

WANTED

- * 2-metre all mode transceiver — André van Deventer ZS2BK, tel. 360 7078.



From after world war 2 to probably the 1960's the main challenge for radio amateurs was to work DX. Bear in mind too that this was done with largely homebrew equipment.

Over the years an increasing number of awards became available, but without doubt the most popular was the DX Century Club award issued by the American Radio Relay League. The award required contacting stations in at least one hundred different countries according to the ARRL countries list. After this, one could get endorsement stickers for extra countries worked.

Other popular awards were Worked All Zones (40), Worked All States (50) and especially for us South Africans, the All Africa Award.

Port Elizabeth amateurs ranked high among the Dxers in South Africa those days. Our top man, the late Rex Bosman ZS2X, had the highest country score in South Africa. He was also number 8 in the world to receive the Worked All Zones award, the first one outside the United States of America.

Sadly we saw a waning of interest in this aspect of the hobby subsequently. I feel that this was due to new regulations and the advent of the restricted licence (ZRs).

The ZRs were restricted to the VHF bands and, with commercial gear and repeaters becoming increasingly available, the incentive for them to upgrade to a full (ZS) licence was largely lost.

So too was the fine honing of operating skills.

Many ZS operators also migrated to the VHF bands.

It is good to have new regulations and privileges which allow more access to the HF bands. I have noticed that already there is an increase in HF and DX operation. I look forward to improved operating skills, something we amateurs can be proud of.

I do not condemn operating through repeaters. It certainly has a place, but should not be the only place.

73

Al, ZS2U

Four Metre Operation

The four metre-six metre crossband repeater at the QTH of Tim ZR2TW is operational again. It is accessible, transmit receive, either on 52,950 MHz or 70,250 MHz.

Note that the four metre frequency has been shifted from 70,200 MHz to 70,250 MHz.

This repeater is meant for the tone operated squelch sets, the PRC77's and R44's. The 70,200 MHz channel is now used for monitoring and calling for sets using signal operated squelch such as the ASL1000, Pygmy etc.

Glen ZR2GV is planning to replace the four metre section of the repeater with an ASL1000. This means that the repeater will then be accessible on four metres with normal signal operated squelch sets and six metres will remain accessible with the PRC77 and R44 sets.

Members will be informed when the change has been made.

Summer is on the way, with the prospect of more openings for long distance simplex contacts on VHF. No doubt there will be those who would like to make such contacts on four metres too. One could well ask who further afield would be operational on this band, and with suitable equipment for us in PE to contact.

Well, we should try to motivate some amateurs further afield to set up their stations for four metre operation. We already have Dawid ZR1DJP in Dana Bay who is keen and has equipment.

I am in the process of developing a three element beam for this band and will be publishing an article on it as soon as possible.

Social

We wish a warm welcome to new ECARES member Kendall Watson ZR2WAT. Kendall is a member of the Mountain Club of SA and heads their Search and Rescue section. 📍

CIGARETTE LIGHTER ADAPTER

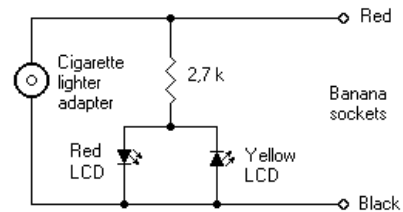
Cigarette lighter adapters in cars are not the best place for obtaining power for a transceiver. However, there may be come a time when you have no alternative but to use the socket for power.

I learnt the hard way that you should not assume that the centre contact is positive and the outer contact negative, so I made up a cigarette lighter adapter with short leads and banana sockets at the other end, one red and the other black.

In the adapter I fitted two small LEDs, one red and one orange, connected so that when the red one lights up, the red banana socket is positive and the black one is negative. If the orange one lights up it indicates that the

red banana socket is negative and the black one positive. If neither LED lights up, it indicates that you have no power on the sockets.

As can be seen from the diagram, the circuit is very simple. Make sure you connect the LEDs the right way round. You may need to experiment a bit with the resistor value. 📍



55.1 Mile Wi-Fi Record

Some Ohio, USA teens have been able to make a 55-mile Wi-Fi connection. The teens from Cincinnati got an ovation at the DefCon hacker conference when organizers announced at the Alexis Park Resort that the winners of this year's Wi-Fi shootout might have broken a world record for ground distance in establishing a 55.1-mile Wi-Fi connection.

The Wi-Fi shootout was among the most popular contests. Six teams participated, including two women who won an award for the most innovative antenna design, which consisted of an assortment of cardboard, duct tape and a car sun visor. That's only slightly less conventional than previous contestants, who built antennas from Pringles and Hormel Chili cans. The jury-rigged antenna achieved a connection at 0.82 miles.

Contestants had to set up a pair of computers, get an 802.11b Wi-Fi connection working on each one and then see how far apart they could place the computers and still maintain a connection using homebrewed and commercial antennas with and without amplifiers.

While one part of the winning team climbed a mountain with equipment, another part of the team climbed a second mountain. Then the first group shot a signal from one station to the second station with an encrypted message provided by the judges. They logged increasing distances over two days. Contest judges verified the distances using GPS coordinates.

The previous year, teams got caught in a two-hour traffic jam before they reached the base camp, at 4,650 feet above sea level, then faced rain and thundershowers in addition to blistering heat. This year they faced only the

heat.

Ben Corrado, Andy Meng, Justin Rigling and Brandon Schamer won the greatest distance achieved for an 802.11b network. The teens, two of them 18 years old and the other 19 years old, achieved 55.1 miles using homebrewed antennas on both ends along with amplification, exceeding last year's winner by 20 miles. Then, when they established that record, they turned off their amplifiers and broke the record for an unamplified connection at the same distance.

The Guinness world record for Wi-Fi connection stands at 310 kilometers, achieved in 2002 by Wi-Fi equipment maker Alvarion and the Swedish Space Corporation. However, the companies achieved the distance by launching the equipment in a Swedish weather balloon, which many feel is not the same as a ground measurement, since there are fewer obstacles to block a WiFi signal in the stratosphere. The Swedish group also used amplification to achieve its record, but the DefCon team maintained its 55.1-mile connection even without amplification.

Guinness World Records could not be reached for comment in time for publication to determine whether the DefCon team's efforts count as a distinct record.

They might have achieved an even greater distance, Justin Rigling said, "but there was no road left."

For their efforts, the teens received a stack of O'Reilly books, Best Buy certificates and über-hacker badges, allowing the teens and Justin's father lifetime admission to DefCon for free.

After the awards ceremony, the three were seen in a corner of the conference room trying to sell their equipment to lighten the return trip home. 📍

HF DIGITAL MODE FREQUENCIES

by Barry Murrell ZS2EZ

Several local amateurs have enquired as to where they can find HF digital mode activity. The following is intended as a general guide to HF Digital frequencies.

New digital modes are continually being developed, yet the band allocation for digital operation remains unchanged. Thus many digital modes share common frequencies.

The frequencies given below are the generally used frequencies for these modes. As several of the modes are narrow-band it is possible for them to coexist side-by-side!

PSK31 activity is found around the following frequencies: 7.035.15, 14.070.15, 18.100.15, 21.070.15, 24.920.15 and 28.120.15. PSK is a very narrow-band transmission, so set your transceiver to this frequency and let the software do the rest.

RTTY is still the most popular mode amongst DXers, RTTY activity can be found between the following frequencies: 10.120 – 10.150, 14.060 – 14.099, 18.100 – 18.110, 21.060 – 21.099, 24.920 – 24.930, 28.070 – 28.130. Tune around and listen for the distinctive sound of RTTY!

SSTV is a broader transmission, and can thus be found higher in the bands. Look for SSTV activity around 14.230 and 21.340. **Digital SSTV** transmissions can be found around 14.236 and 21.370.

MFSK transmissions can be found just above the PSK operations. Look for this excellent weak-signal mode around 14.073, 18.104, 21.073, 24.925 and 28.073.

MT63 and **Olivia** are slightly broader modes. They can be found between 14.108.5 and 14.109.5. The less widely used modes such as **Hellschreiber**, **Throb**, **Domino** and others can be found interspersed with the RTTY ranges. On top of all of this, unattended **Pactor** signals are transmitted by the Winlink system BBSes every now and again!!

Now that you know where to find the digital signals, why not give digital modes a try?

HAMNET SIMULATED EMERGENCY CONTEST

Once again this contest proved to be exciting and enjoyable. It is rather disappointing that there was only one multi-operator entry. What are all the clubs doing that they do not set up a station and join in?

Congratulations to the winners, who are:

<i>Single operator stationary mobile</i>	ZR5AG
<i>Single operator portable</i>	7P8BHF
<i>Multi-operator portable</i>	ZS6AVC
<i>Single operator base station</i>	ZS4JAN

There were only two ZS2 stations in the contest – ZS2U and ZS2ABZ, operating as Single operator portable and Single operator base station respectively. 📍

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UNIVERSAL BATTERY CHARGER

by Christian Bruckner

Some time ago I acquired an old commercial handheld TRX which was powered by a 12 Volt NiCad Battery pack (10 Button cells each having a capacity of 280mAh).

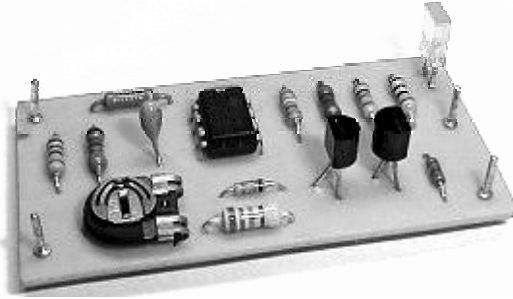
In fact this (at least 10 year) old battery is best because there is a very special charger used:

This is a charger circuit for both NiCad and NiMh batteries. When the battery voltage is low it is charged with the usual constant current source in the normal way. But when the battery voltage increases, the charging current will become pulsed.

A completely fully charged battery only requires short flashes to maintain its charge and terminal voltage.

Here is the circuit diagram:

The original circuit used some old-fashioned components, so I devised a completely new design using only standard, commonly available components.



The LED (green) shows that the battery is charged. A full battery is indicated when the LED is "dark" most of the time.

Set the charger to 1,42 Volts for each cell (i.e. 5,68V for a 4,8V Battery-Pack) by adjusting the 47k variable resistor.

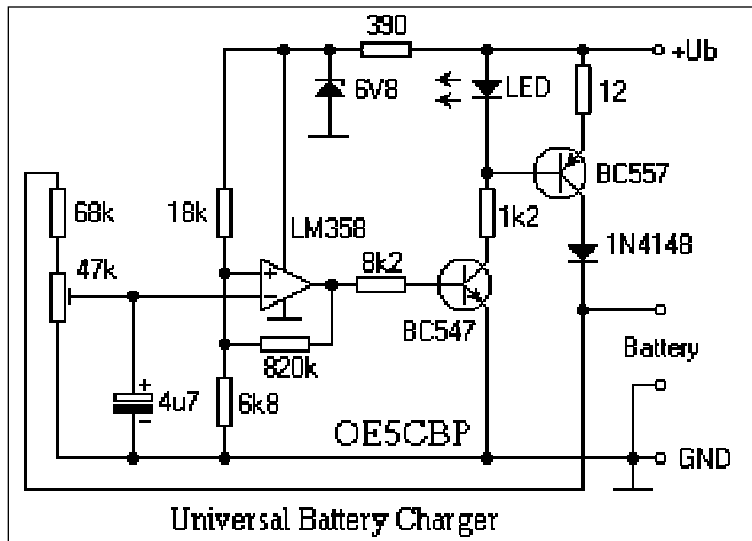
The charging current is around 120mA and can be changed by adjusting the 12 Ohm resistor, or the forward

voltage (colour) of the LED.

At the moment I am using the new circuit for 4,8V, 6V and 7,2V batteries having a capacity ranging from 500 mAh to 1200 mAh.

12v DC is used to power this charger.

A photograph of the completed project appears above.



PEARS IGATE UP AND RUNNING

As has been mentioned on bulletins in recent weeks and at the last PEARS meeting, PEARS now has an APRS IGate (internet gateway) running on the local Packet/APRS frequency of 144.625MHz. Data is digipeated via Lady's Slipper and Grahamstown Digipeaters..

The Port Elizabeth IGate is being run from the QTH of Barry ZS2EZ in Walmer, and is beacons under the callsign ZS2EZ-4. The station, consisting of a 25W Ranger 2m FM transceiver and a folded dipole, is connected via a soundcard interface to a computer running AGWPE and UI-View32. The computer is connected to the internet via a 100Mbps Ethernet network and an ADSL 192K router connection.

How does it work? The built-in gateway facility of UI-View32 allows a connection to a remote internet server, which gathers data from APRS stations all around the world. UI-View32 then relays all UI data received via RF to the remote server, and receives a feed of all the data received by the remote server. As one can imagine, this is a lot of data!

As we do not want to flood the RF network with irrelevant data, a filter is configured within UI-View32 allowing only ZR/ZS/ZU data to be retransmitted. Thus APRS-equipped stations in range of Port Elizabeth's digipeaters are able to view APRS information for the rest of South

Africa, and our local data is now viewable around the world.

Cost to the Society? Nil! Following the death of Roger Barker G4IDE (author of UI-View32) registration of this fantastic program became free. The ADSL connection, station and computer are being provided as a service to APRS enthusiasts by Barry ZS2EZ.

It should however be pointed out that current data traffic to keep this system running runs to some 140-200Mb per DAY. Sadly, plans to run a DX Cluster from the same station have had to be scrapped; firstly the DX Cluster info is retransmitted as a UI packet, and the IGate then reroutes these to the remote APRS server! Secondly the data throughput for the cluster combined with the APRS throughput would reach impossible levels. As there are very few keen DXers in the Eastern Cape, it was decided to cancel the DX Cluster plans.

What with the imminent commissioning of APRS tracker kits in the PE area, as well as the establishment of the IGate, APRS is definitely alive and well in Division 2. It is worth noting that the only other IGates currently running in South Africa are in Gauteng (Johannesburg and Pretoria) and KZN. Bill ZS2ABZ's weather station (ZS2ABZ-4) is the only one of its kind running 24/7 in the country.

EL Holds its AGM

We happened to be in East London during the weekend of the Border club's AGM, and we put in an appearance there. There must have been about 50 members and wives present and enjoying themselves outside in beautiful weather. A boot sale was on the go with various goodies, mainly from the past.

There were no takers for a morse key with facilities for up to seven memories so, by way of a joke, I suggested R10, hoping others would join in. The offer was accepted but nobody raised it, so the key came back to me! I felt it should have gone for a lot more, but the auctioneer said "make it twenty rand and forget about it," which is exactly what I did!

Among the awards was one of honorary life membership, which BARC awarded to Trevor Foxcroft ZS2BV for all that he has done for radio in the area. 📻

Ten Commandments

for the Radio Amateur ...

from JOHAN TERBLANCHE ZS1I

1. Beware of the lightning that lurketh in an undischarged capacitor lest it cause thee to be bounced upon thy buttocks in a most ungainly and painful manner.
2. Causest thou the switch that supplieth large quantities of juice to be opened and thusly tagged, so thy days may be long in this earthly veil of tears.
3. Prove to thyself that all circuits that radiate and upon which thou workest are grounded, lest they raise thee up to high frequency potential and cause thee to radiate also.
4. Take care that thou useth the proper method when thou taketh the measure of high-voltage circuits so that thou dost not incinerate both thyself and the meter, for verily, though thou hast no account number and can be easily replaced, the meter hath one and, as a consequence, bringeth much woe unto the Supply Department.
5. Tarry thou not amongst those who deal in intentional shocks, for they are surely unbelievers and are not long for this world.
6. Take care that thou tamperest not with

interlocks and safety devices, for this will incur the wrath of thy peers and bringeth the fury of the authorities down upon thy head and shoulders.

7. Workest thou not upon energized equipment, for, if thou dost, thy buddies will surely be buying your equipment from thy widow.

8. Verily, verily, I say unto you, never service high-voltage equipment alone, for electric cooking is a slothful process and thou mightest sizzle in thine own fat for hours on end before thy Maker seeth fit to end thy misery and drag thee into His fold.

9. Trifle thou not with radioactive tubes and substances lest thou commence to glow in the dark like a lightning bug, and thy wife be frustrated nightly and have no further use for thee except thy wage.

10. Commit thou to memory the works of the prophets, which are written in the books of instruction, which give the straight dope and which console thee, and thou canst not make mistakes.

*Source material - Jim Berry, K7SLI.
Edited by Jerry Proc, VE3FAB*

LIGHTHOUSE WEEKEND

Keep a listen-out for those operating from stations that have been set up in various lighthouses during the weekend of 20/21 August.


Ewalt Bouwer ZS2EHB is planning to run a station from Cape Receif which he did two years back, and I believe Dick Schönborn

ZS2RS wants to set up a station at the Fish River lighthouse. Ewalt is trying to get authority for this.

The chaps will be happy to receive visitors, so if you have nothing else to do or simply want a drive to an exciting spot, these are the places to go.

RAE Doesn't Look Too Good

It seems that there are only two candidates for the next RAE examination. This means that the Club will not be running any courses for the event.

If you know of any other candidates, please let the Committee know. Only if there are six will the Club run a course. 

Jesse's Triumph

by Mike Hanslow, ZS1RMS

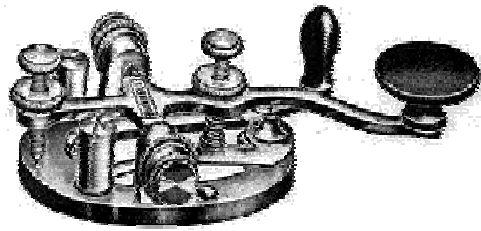
Just after the Civil War, Jesse H. Bunnell, who had been a telegrapher during the war, went into the key business.

In the early days of telegraphy, keys used a brass lever through which a steel pivot shaft was fixed. This made for a heavy key on which the shaft was liable to work loose from the heavy use. Various lever designs attempting to solve the problem of a brass lever becoming loose on its steel axis when subject to consistent lateral pressures.

This lateral movement produced a secondary problem called "sticking" that occurred when the lever was released. The key contacts would slide back across themselves instead of breaking clean, especially when closely gapped.

During the 1870-1880's makers, including J.H. Bunnell & Co, promoted the cure of "sticking" with their new designs. In 1881, Bunnell obtained a patent on a "steel lever key" on which the lever and pivot shaft (trunnion) were parts of a single piece of stamped steel. Bunnell's steel lever invention solved the problem of lateral stability and gave the operator a strong, lightweight, and responsive lever.

The original "J.H. Bunnell's Steel Lever Solid Trunnion Key," or simply "The Bunnell Key" patent in 1880 was a leg key. A legless version of the key was introduced in the spring of 1881, intended for use on "fine desks" that could not be subjected to the holes necessary for the under-the-table connections to a leg key. The "Legless Pattern Steel Lever Key" had a solid brass base and provided top mounted binding posts.



The solid base key was built until 1898 when the base was replaced with a hollow version that the Bunnell Company referred to as the "skeleton" base. This design has become the standard for keys ever since.

The Bunnell Triumph made its debut in September of 1906. The Triumph's rugged base differentiates it from the skeleton base of the Standard Steel Lever legless key. This new base included thicker standards, a separate anchor for the circuit closer, and solid binding post connections to the frame and the lower platinum contact.

Bunnell's key had a shorting lever. The author was told by an experienced radio ham that the shorting bar was used when tuning up a valve transmitter but was actually far from the truth. American railroads telegraph key has a circuit closer and is intended for use on gravity battery circuits. These batteries put out a small, constant current into a closed circuit.

European land-line telegraphy required an "open circuit key" by using dry battery cells. Dry cells require less maintenance and are not subject to spillage, but would rapidly run down if used in a closed circuit. This circuit must be kept open except when keying a message.

Bunnell's Triumph design has become the work horse of the American telegraph and railway companies. It has also become the most copied of all straight keys.

So don't discard that cheap "made in Japan brass plated copy" collecting dust somewhere, but rather consider the history that went into such a remarkable design. 📷

Information sourced from

<http://www.qsl.net/n6tt/bunn6.html>

<http://www.chss.montclair.edu/~pererat/m5500.htm>

<http://www.webx.dk/index.htm>

<http://www.telegraph-history.org/>

**MINUTES OF THE MONTHLY MEETING OF THE PORT ELIZABETH
AMATEUR RADIO SOCIETY
held at the St Hughs Church Hall, Newton Park, Port Elizabeth on 21 July 2005**

Welcome – Al welcomed all.

Present & Apologies – As noted in the attendance register. In addition ZR2VDL, ZS2JF, ZS2DD, ZS2MM, ZS2BWB.

Minutes of the previous meeting:
Proposed: ZS2EJ, Seconded: ZS2MC

Matters arising

- ZR6 thanked the secretary for promotion to ZS.
- Al mentioned the Pigeon club costs were high at R500 per occasion. Barry ZS2H agreed to cancel that request.
- Al mentioned the purchase of a caravan for special occasions. Storage on his plot alongside his house. He asked for opinions from the meeting. Cover would be required, to protect against the weather. 8 in favour, 5 against. Al to keep looking. Rudi described the Mountain rescue vehicle, and maybe that could serve a dual purpose.

Correspondence

- In: - Renewals x4; Rally Claims
- Out: - Various quote requests and orders for tracker kits
 - Licence cancellation repeat requests to ICASA re Wefax equipment
- SARL Honorary life membership for ZS2U was proposed at the AGM, but has not been actioned. Rory to follow up with the SARL.

Finance & Membership – Clive reported that all was sound, although the tracker kit and rally claim expenses were still to be paid.

General

- Al mentioned a possible visit to the NMMU Physics Dept to look at the Solar panel production project currently underway. Meeting supported the idea.
- George offered callsign onto T shirts at R2 per letter
- ZS6ZYM phoned Barry asking whether certificates for the welcome to HF contest. Barry says he has contact details of the contestants. Garth to be asked whether he can produce them for the contestants.
- Chris asked for a moments silence in memory of Jan, ZS2JW.
- Barry reported in the APRS Igate traffic from his QTH. View the information on your Ui-View package on 144.625MHz.
- Paul asked about the upgrade to ZS process. Al mentioned the local assessors and that they can be contacted for assistance.

Presentation

Al made the award of the EP Signal Unit trophy to Des, ZS2ABU, for his work on the maritime net, and his regular attendance of the 6m nets. Trevor also proposed a certificate for Graham, ZS2ABK for similar work.

Closure

Meeting closed at 2030, after which Chris gave a demo of the APRS system used at the motor rally and Al gave a talk on two small construction items. 📍

CARAVAN FOR PEARS

At the July meeting it was agreed that we should look for a caravan in which to install permanent equipment and use it for rallies, contests etc. and generally to put PEARS into the public eye. *We are very pleased to note that Peter Liebenberg ZS2PL, of Aston Bay, has kindly agreed to give us his caravan, which he has not used for some time. Thank you greatly, Peter!*

As soon as the van is with us in Port Elizabeth it will be necessary to check it out and then install all the bits and pieces that we will need, so watch this space! 📍

Pearstalk



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

JAN VAN REE

Dick Schönborn, in an e-mail to Chris, writes:

"You may remember that Jan van Ree, along with Andre Crouse, assisted in a rally not too far back.

"He established Trio Advertising quite a while ago. In fact to raise the necessary, he sold his radio gear until established, and then bought more.

"Whilst I was chairman, we hosted a national AGM at the Edward Hotel, and I borrowed a huge black Cadillac from Lippstreu Ford.

"Jan was the chauffeur and fetched and carried delegates to and from the airport. One of your sisters made a pennant for the bonnet with the SARL logo on it.

"I will simply put a small notice in the Herald from PEARS, at my expense."

UPGRADING TO ZS

In an e-mail message, Henry Chamberlain refers to Chapter 3, regulation B1 (3) of the amendments to the Radio Regulations that appeared in Government Gazette No. 25814 of 17 March 2004, which provides that:

"Class A1 (unrestricted) License (ZS – CEPT Class 1) may be issued to a person who –

(a) Has furnished proof of his or her ability to correctly set up, adjust and operate an amateur HF transceiver;

The Council of the SARL has, until now, interpreted this rule in the amended radio regulations to be applicable to ZR-licensees who passed the RAE in May 2005 and onwards.

ICASA, however, are insisting that **all** ZR-licensees who wish to upgrade to ZS

must furnish proof of their ability to set up and adjust an HF transceiver.

Fortunately this is a fun activity and is probably best done in groups where several candidates can be assessed simultaneously.

The form for this is available on the SARL website on the main page under Forms.

SARL HF CW CONTEST

Remember on 28 August there will be the SARL HF CW contest, running from 13:00 to 16:00 UTC.

Select frequencies in the 14,030 to 14,060 MHz; 7,010 to 7,035 MHz and 3,510 to 3,560 MHz regions.

Maybe I will also give it a try this year. As far as I recall, I haven't done so since coming back to PE from Transkei in 1984. Maybe I'll use the recently acquired memory type keyer that I obtained at the EL AGM. I don't know why else one needs memories on an electronic keyer!

RESULTS OF THE SOUTHERN AFRICAN PSK CONTEST

The results of the First Southern African PSK Contest hosted by the Lichtenburg Amateur Radio Club have been released. The response and comments were very positive.

Thirteen logs were received. The scores are as follows:

High Power:

Jack Anderson, V51KC, 87 points;
Danie Jacobs, ZS4JJ, 77 points;
Barry Murrel, ZS2EX, (ex ZR2DX) 75 points.

Low Power:

Ken Tremeer, ZS2BWB, 75 points.

Well done to everybody! 🍌

Condolences go to Wanda van Ree and family on the occasion of the passing of husband Jan van Ree ZS2JW on 14 July. Jan was on a business trip to East London when he suffered a massive heart attack. He was only 54 years old.

Waldo Hoffman, ZS2HG, of George, became a silent key on 15 July. Our most sincere condolences go to his wife, children, family and friends.

To those celebrating special days (21 Aug to 17 Sept) we hope you'll



... on your birthdays

August

- 21 Martie Borello, XYL of ZR2RB
- 24 Graham Griggs ZS2ABK
- 26 Vic Plumridge ZS2VP
- 29 Teresa Joubert, XYL of ZR2TW

September

- 2 Johannes Geldenhuys ZR2JG
- 2 Renette van Deventer, XYL of ZS2BK
- 2 Mel Gwilt, XYL of ZS2RL
- 6 Gerhard Baum ZS2UM
- 7 Gert Schwarz ZR2GPC
- 7 Merle Thomas, ZR2MP
- 7 Liz Lubbe, XYL of ZS2AEG
- 8 **Philemon** Hopper, ZS2PP
- 9 Jack Koen ZR1JAC
- 10 André van Deventer ZS2BK
- 11 Barry Jackson ZS2H
- 11 Joan Bowes XYL of ZS2QN
- 11 Jane Fife, XYL of ZS2RT
- 12 Pam Hopper ZU1PAM
- 12 Libby Hanslow, XYL of ZS1RMS
- 12 Jo Akers ZS2W
- 15 Hanni Baum ZR2JB

... on your anniversaries

August

- 20 Ria and Paul de Vos ZS2ABY
- 31 Jean and Phil Kauffmann-Sorensen ZS2NP

September

- 2 Joan ZR2ABA and Allan Bowles ZS2BO
- 3 Yvonne and Chum Rhodes ZS2VU
- 14 Daphne and Paul Galpin ZR6ACV



Congrats to Barry Murrell, ex ZR2DX but now known as ZS2EZ. In American English that's Zee Ess 2 Ee Zee. Barry logged and received QSL cards from at least 100 stations using one or other of the digital modes.

New Members: Welcome to Brian Prior ZS2AU of East London as well as Clive Swanepoel. We hope you will be happy with us. 📺

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
14 Aug	ZS2EHB	<u>AUGUST</u>
21	ZR2VDL	18 PEARS GENERAL MEETING
28	ZR2GV	20 SARL Technology Open Day
4 Sept	ZS2U	28 SARL HF CW Contest
11	ZS2BL	<u>SEPTEMBER</u>
18	ZS2RT	1 Wrinkly Rave

* We like being your Society *