

November 2012



JOTA activities on the 20th October – see page 4 (photos by Ted ZS2TED).

This Newsletter is published by the Port Elizabeth Amateur Radio Society
P.O. Box 10402, LINTON GRANGE, 6015

Editing by Eric ZS2ECH

QSX-PE - Newsletter for the discerning Radio Ham

Download QSX-PE from www.zs2pe.co.za/Newsletter/Newsletter.htm
or www.commco.co.za/pears.htm

PEARS END-OF-YEAR FUNCTION

Saturday 24th of November, 3 pm

at the Italian Sporting Club, Charlo, 17 Harold Road.

Please RSVP to Clive ZS2RT at clive[at]peham.co.za

Why not wear a name badge with your call sign to the meeting so that everyone can get to know each other.



From The Chair:

First off let me remind everyone that the November Meeting, which traditionally takes the format of a social gathering, is scheduled for 15h00 on Saturday 24 November at the Italian Club. It has been decided to try this new time and date in an effort to accommodate members who might not be able to attend in the evenings. Light snacks and Boerie Rolls will be provided so it would be appreciated if we could get some indication of numbers attending.

Along with the new format it was suggested to include a boot sale, so if you have anything that you would like to get rid of, now is your chance.

Due to the recent extreme weather two events were cancelled and one was "watered down" (Excuse the pun). Both the MTB race and the Sardinia Bay Horse Enduro were cancelled while the JOTA activities were restricted to indoors. Thanks to the members who volunteered for all of these events.

As mentioned at the last meeting we have been invited to have a stall at the Veteran Car Club Motor Show on 1 December. I have indicated that we are interested but need a volunteer to make this happen. If there is someone who would like to take on this project please let me know. The club has a Gazebo so all you need to do is arrange some members to man/woman the display.

Next weekend we have members travelling down to Wilderness to assist with the Garden Route Rally. To all of you, travel safe and see you around the Braai fire.

That's all from me for this year, if I do not see you before the Holidays please have a pleasant break and try to have some fun with your radio.

See you on the Air.

73 Tony ZR2TX

WRINKLY RAVERS

The next regular monthly lunchtime meeting of the Wrinklies will take place on Thursday the 1st of November (and 6th of December 2012) at the Cattle Baron in Sunridge Village. You will only be excused if you have a "more" important appointment, or you do not have any wrinkles. Come join the folks for some tremendous company and fun, whether you have wrinkles or not.

SEE YOU THERE!!!!!!

The next RAE exam will be in March 2013 and Donovan ZS2DL is already taking in names. Anyone who is interested in doing the exam must please contact Donovan (contact details on page 11) for more info and to be added to the email list.



CW messages heard on the repeater network

Allan, ZS2R, has developed PIC software used on a number of Eastern Cape repeater sites as an upgrade to the dated CMOS technology as designed specifically for the Storno repeaters and links extensively used throughout the Coastal Repeater Network. The upgrades were made necessary by the replacement of the 24V Storno equipment with more modern Synthesised 12V equipment. The PIC is used to control the links and repeater connections at a site, as well as simple telemetry using DTMF commands and responses in Morse Code. But be ready – the code speed is above that of a beginner...!

When a link is switched off (or an alarm disabled) the PIC controller will send a number of short beeps. This convention is used throughout (broken tone/beeps = broken link).

When a link is switched on (or an alarm enabled) the PIC controller will send one long beep. This convention is used throughout (solid tone = solid link).

Door Alarm:

If a door alarm is triggered, the PIC controller will send an alarm sound. The alarm sound is an emergency fire engine "weeeuw-weeuw" alarm, followed by a CW message of the alarm's ID code. For example, if the door alarm at the 700 repeater is triggered, an emergency fire engine alarm followed by a CW message "70017" will be sent.

In order to be able to prevent nuisance alarms when working on site, the door alarm can be de-activated. The status of the alarm can also be checked at any time by sending the alarm's ID code only. The response will be a long tone, if enabled, followed by the alarm sound if it has been triggered, or 8 beeps, if disabled, also followed by the alarm sound if it has been triggered. If the alarm has not been triggered, the long beep or short beeps will be followed by the CW message "clear".

Mains Fail Alarm:

The mains alarm sound will be a "bee-baah" sound repeated 5 times, followed by a CW message of the alarm's ID code. So for example, if the mains at the 700 repeater should fail, a "bee-baah" repeated 5 times followed by a CW message "70019" will be sent. When the mains power is restored a CW message "mains on 70019" will be sent. The alarm will sound every 20 minutes while the mains power is absent. The status can be interrogated by sending the DTMF ID code only, at any time. The response will be the long tone for enabled, followed by an alarm sound if it has been triggered (mains failed) or 8 beeps for disabled also followed by an alarm sound if it has been triggered. No alarm sound after the long tone or 8 beeps indicates that the alarm has not been triggered, and mains power is present.

Battery Volts:

The PIC analogue port can measure analogue values of temperature in degrees Celsius or potential difference in volts. How this is used depends on the hardware wired on site. For example should a 62518 code be sent to the Longmore repeater, the response would be a CW message indicating the battery potential in volts (e.g. 13.8V). The temperature option is not currently used although it is available on the current PICs.

<p><i>Repeater Control Codes: 145.625 repeater at Longmore</i></p> <p>62511 - VHF Repeater (* to connect, # to disconnect)</p> <p>62512 - UHF Link (* to connect, # to disconnect)</p> <p>62513 - UHF Link to Baviaanskloof (* to connect, # to disconnect)</p> <p>62514 - Digi and Baviaans link power control relay (for power saving)</p> <p>62515 - UHF Link channel number, as follows:</p> <p>625151 - Ch 1 = 438.650 (link to Town UHF Rept)</p> <p>625152 - Ch 2 = 438.700 (link to Slipper)</p> <p>625153 - Ch 3 = not used yet</p> <p>62517 - Door alarm</p> <p>62518 - Battery Voltage</p> <p>62519 - Mains Fail alarm (not connected - no mains here yet!)</p>	<p><i>Repeater Control Codes: 145.700 repeater at Lady Slipper</i></p> <p>70011 - VHF Repeater (* to connect, # to disconnect)</p> <p>70012 - UHF Link (* to connect, # to disconnect)</p> <p>70013 - 7.098kHz HF set (* to connect, # to disconnect)</p> <p>70014 - BBS PC power control</p> <p>70015 - Wifi system power control</p> <p>70016 - HF set power control</p> <p>70017 - Door alarm</p> <p>70018 - Battery Voltage</p> <p>70019 - Mains Fail alarm</p>
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For this and more info see the PEARS web pages at: <http://www.zs2pe.co.za/Repeaters/repeaters.htm>

JOTA, Saturday 20th October

It drizzled all day, so the scouts were confined to the scout hall in Fordyce Road, Walmer. There were roughly fifty people, of whom thirteen were hams. Five tables were set up with H.F. radio, VHF radio, digital and Morse demonstration. Most interest was shown in the internet station where other JOTA stations could be seen and heard. One I saw was a station in England.

I had Morse keys on display: a straight key, an old fashioned mechanical semi-automatic key and a fully automatic key. Quite some interest was shown in these by some of the scouts.

At one stage Theunis ZS2EC was listening to a DXpedition pile-up on C.W. and roped me in to tell the scouts what was going on. We had to explain to them how we knew what countries the stations were in.

The day turned out rather more successful than I had anticipated.

73,
AI ZS2U

WHAT HAVE I DONE WITH MY RADIO TODAY (I cleaned it – lol)

Here is a pic (*see below*) of my 40 m inverted V antenna that Allan ZS2R and Ted ZS2TED set up for me one Sunday. I was so excited to get on the air that I could hardly wait for the radio! Well, as things go on this farm, I could not find one single tool when I needed it – none the less, the antenna went up and coax through the cracks in the wall, the battery source set up and finally..... the radio. Allan switched it on and woooop.....nothing – went on and off and that was the end..... Luckily TED came prepared and brought another Icom which soon responded to our battery source (which was flat, by the way). After a bit of fine tuning and swapping SWR meters, my two heroes finally got me on the air! The next day I tuned up and down listening to ZS 5, 4, 1 and 2 operators. Next step – After printing a log sheet, I grabbed a pen and settled in to make some contacts..... then it happened – the rain came down in buckets and I was left in the dark without any electricity. For some reason the plugs in my room still worked and I was able to run a few appliances. Alas, I wasn't able to get on the air.....

Since Tuesday 16 Oct I got separated from my QTH and had to rely on Llise ZS2LLD and other friends for accommodation. Yesterday I braved the currents and pulled myself across the river with a Telkom (hooray for Telkom) wire so we managed to get across. Now I'm happily staring at the rig, playing with the buttons and building up the courage to call CQ....CQ.....CQ.....ZS2PTY CALLING CQ.....

Patsy ZS2PTY
Silgenoeg Boerdery
ELANDSRIVER

HF antenna at ZS2PTY's QTH



PE-QSX page 4

THE VHF SPECTRUM AND ABOVE

Mike Bosch ZS2FM's QTH unfortunately suffered some flood damage with the last heavy rains. As a result he is unable to be on the air or internet, and hence there is no contribution this month. We hope that the damage is not too bad and that he will soon be active again.

Assistance wanted

Is there anyone who would be interested in assisting to rectify an intermittent fault in a TS 430 and another TS 180? Both owners' manuals are available and for the TS 430 the working manual is also available. Remuneration offered!

Also, anyone prepared to get my packet system up and running again? Remuneration also offered!

Please contact Des ZS2ABU for more information on 041-368 2200.

Grateful for any assistance rendered; this equipment is used twice daily for the S.A. Maritime Net.

Thank you.

The Mayonnaise Jar

When things in your life seem almost too much to handle, when 24 hours in a day is not enough, remember the mayonnaise jar and two cups of coffee.

A professor stood before his philosophy class and had some items in front of him. When the class began he, wordlessly, picked up a very large and empty mayonnaise jar and filled it with golf balls. He then asked the students if the jar was full. They agreed that it was. The professor then picked up a box of pebbles and poured it into the jar. He shook the jar lightly. The pebbles rolled into the open areas between the golf balls. He then asked the students again if the jar was full. They agreed it was. The professor next picked up a box of sand and poured it into the jar. Of course, the sand filled up everything else.

He asked once more if the jar was full. The students responded with a unanimous "YES". The professor then produced two cups of coffee from under the table and poured the entire contents into the jar, effectively filling the empty space between the sand. The students laughed. "Now," said the professor, as the laughter subsided, "I want you to recognize that this jar represents your life. The golf balls are the important things - God, family, children, health, friends, and favourite passions. Things, that if everything else was lost and only they remained, your life would still be full. The pebbles are the things that matter like your job, house, and car. The sand is everything else -- the small stuff." he said.

"If you put the sand into the jar first," he continued, "There is no room for the pebbles or the golf balls. The same goes for life. If you spend all your time and energy on the small stuff, you will never have room for the things that are important to you..." he told them. "So... pay attention to the things that are critical to your happiness. Worship with your family. Play with your children. Take your partner out to dinner. Spend time with good friends. There will always be time to clean the house and fix the dripping tap. Take care of the golf balls first -- the things that really matter. Set your priorities. The rest is just sand."

One of the students raised her hand and inquired what the coffee represented. The professor smiled and said, "I'm glad you asked. It just goes to show you that no matter how full your life may seem, there's always room for a couple of cups of coffee with a friend."

Alternative uses for coat hangers...



High-altitude RA balloon in Argentina

On May 19, 2012 a high altitude amateur radio balloon was launched from La Pampa, Argentina, reaching 34 km. It carried a 430 MHz to 144 MHz band 4 watt CTCSS activated FM repeater, APRS lu7aa-11, Robot-36 live SSTV, CW, and 40/20m CW telemetry beacon with 2 video cameras. (Total weight 970 grams).

It also provided a practice run for the upcoming LUSEX satellite.

Details (in Google English) at <http://tinyurl.com/AMSAT-LU-May2012-Balloon>

During the 4 hour flight, over 200 stations made contacts through the balloon repeater mostly using dual band handies as part of a contest. The winner was from Uruguay and received a dual-band handheld. The participants got certificates <http://www.amsat.org.ar/cx2tq.jpg>

The balloon payload was recovered from the mud on October 6 by a 4x4 Adventure Group in an isolated and flooded area. They recovered the payload photos and data, see <http://www.amsat.org.ar/rescate.jpg>

Over 6 hours of video were taken by the two on-board cameras.



WHATEVER HAPPENED TO THE PRINCIPALITY OF SEALAND

Copied from: <http://www.arnewsline.org/>

And finally this week, do you remember Sealand? That's the self-proclaimed principality that also once claimed to be a DXCC entity. Well it is still there but changes are in the wind. Amateur Radio Newsline's Cheryl Lasik, K9BIK, takes a look back into recent history:

Sealand is a former United Kingdom anti-aircraft tower legally known as Roughs Tower. It is located in the North Sea some 7 nautical miles off the shore of Suffolk, England. In 1967 the tower was occupied by a retired army major named Paddy Roy Bates along with his family. On September 2nd of that year Major Bates declared the fort an independent sovereign state from the UK and renamed it Sealand. He went on to establish Sealand as a nation in 1975.

Sealand had its own constitution, flag, national anthem, stamps, passports and currency. There were even a few DXpeditions to Sealand. This included an operation by a group of German DX'ers in 1982 using Sealand's self proclaimed and unofficial callsign prefix of S-1-A. Later, in 2000 there was the Dutch-lead 1SLA1 operation, but neither of these was awarded DXCC status.

Now comes word that Major Bates passed away on October 9th, in a senior care home Essex, in England, at the age of 91. This, after a long battle with Alzheimer's.

But the Sealand saga is far from over. His wife Joan is now expected to take over the rule of the self proclaimed nation. Also, with Sealand is managed by the Bates family as if it were a recognised sovereign entity, and they are its hereditary royal rulers. Bates son is known as "His Royal Highness Prince Michael." He has also been referred to as the "Prince Regent" by the Bates family since 1999. In this role, he apparently serves as Sealand's acting "Head of State" and also it's "Head of Government". Also, at a micro nations conference hosted by the University of Sunderland in 2004, Sealand was represented by Michael Bates' son James, who was referred to as "Prince Royal James".

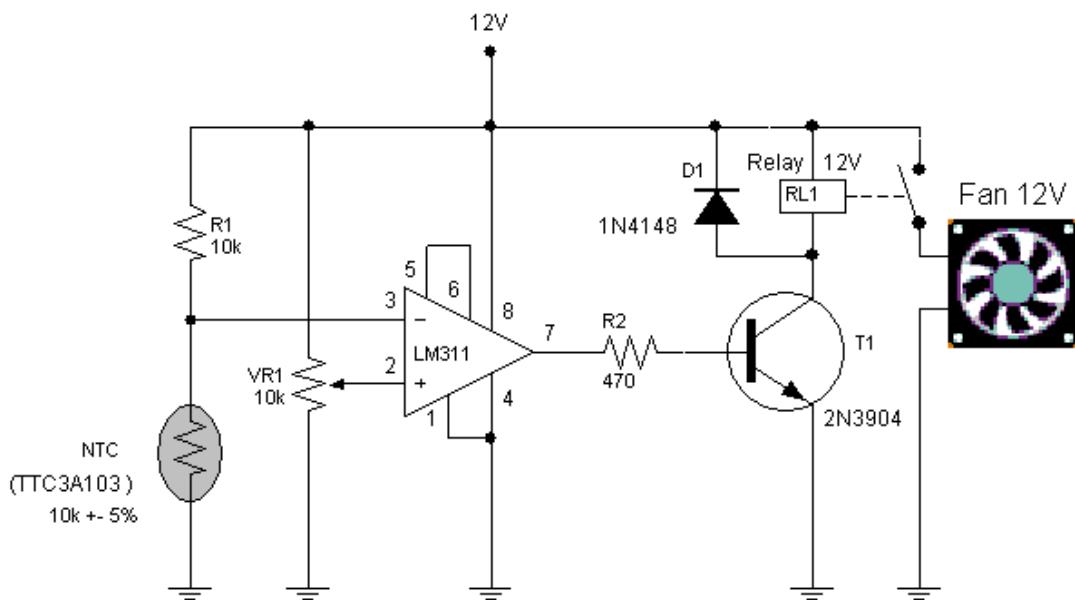
But whoever takes on the leadership of Sealand, one thing is fairly certain. Mounting a DXpedition to Sealand in the hope of establishing it as a new DXCC entity, would likely be a very expensive waste of time.

Automatic fan controller circuit

Copied from: http://www.coolcircuit.com/circuit/fan_controller/index.html

This circuit will turn on/off 12V DC fan or CPU fan when temperature above normal temperature. You can set turn on temperature by adjust VR1. This circuit uses a NTC (Negative Temperature Coefficient) which is a thermistor where the zero-power resistance decreases with an increase in temperature. So if temperature increases, the voltage at pin 3 on LM311 will decrease. The resistance of the NTC is about 10K at 25 °C.

VR1 should be multi-turn potentiometer type such 10K/25 turn.



Automatic Fan controller
(c)2006 www.CoolCircuit.com

CODES FOR A HAM RADIO OPERATOR

- The ham is considerate. He/She never knowingly uses the air (radio waves) in such a way as to lessen the pleasure of others.
- The ham is loyal. He/She offers his/her loyalty, encouragement and support to his/her fellow hams, his/her local clubs.
- The ham is progressive. He/She keeps his/her station (radio equipment) abreast of science. It is well-built and efficient. His/Her operating practice is above reproach.
- The ham is friendly. Be slow and patient when sending friendly advice and counsel to the beginner. Give kind assistance, co-operation and consideration for the interests of others; these are the marks of the ham spirit.
- The ham is balanced. Radio is his/her hobby. He/She never allows it to interfere with any of his/her duties he/she owes to his/her home, his/her job, his/her school or community-and lastly his/her knowledge and his/her radio station are always ready for the service of his/her country and his/her community.

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What do you get when you cross a parrot with a woodpecker?

A bird that talks using Morse code.

HackRF is a radio for all frequencies

Douglas Heaven, New Scientist, Wednesday 24 October 2012 12:22

Copied from: <http://www.electronicsweekly.com/Articles/24/10/2012/54846/hackrf-is-a-radio-for-all-frequencies.htm>

Michael Ossmann, co-founder of Great Scott Gadgets, is developing HackRF, a software-defined radio (SDR) that lets you switch between radio frequencies on the fly.

Most wireless gadgets, like the 3G antenna in a phone, operate using a fixed radio frequency band. But HackRF could potentially receive and transmit any radio frequency from 100 megahertz to 6 gigahertz - a range that includes broadcast and amateur radio, GSM, Bluetooth, Wi-Fi, and remote garage-door openers. Ossmann presented the device at ToorCon in San Diego, California, last weekend.

There are other SDRs out there, but HackRF is intended to hit the sweet spot between versatility and cost - around the size of a USB hard drive and with a \$300 price tag, the device could sit squarely in the consumer electronics bracket. Ossmann suggests SDR technology will bring about a revolution in the radio communications industry similar to the one that digital audio brought to the music industry.

For now, HackRF remains a work-in-progress and isn't yet being pitched at the mainstream market. "HackRF is designed to meet the needs of wireless communication security professionals, researchers and hobbyists," says Ossmann. "It is for hackers, in the widest sense of the term."

Early applications range from identifying vulnerabilities in proprietary wireless control systems to listening in on police radio. Indeed, wireless security protocols that rely on obscure frequencies could be in danger. US military research institution DARPA was interested enough to invest \$200,000 in Ossmann's use of HackRF for research into wireless communication security.

But since the project is open source, hackers and researchers are free to take the device where they like. Ossmann thinks people will come up with uses he hasn't yet thought of.

US sets final emergency responder wireless pilot

Ambitious Multi-Band Radio project seeks to unite first responder community.

Looking to help eliminate the dangerous and inefficient hodgepodge of communication and network technology used by emergency response personnel, the US Department of Homeland Security (DHS) today said it had picked 14 groups from across the country to pilot an ambitious Multi-Band Radio project.

In 2008, the DHS Science and Technology Directorate awarded a \$6.2 million contract to Thales Communications to demonstrate the first-ever portable radio prototype that lets emergency responders-police, fire-fighters, emergency medical personnel and others-communicate with partner agencies, regardless of the radio band they operate on. This is the final pilot in a three-part test, DHS said.

Currently radios only operate within a specific frequency band; subsequently, responders are often unable to communicate with other agencies and support units that operate in different radio frequencies. Comparable in size and weight to existing portable radios with similar features, multi-band radio would provide users with much-improved incident communications capabilities, the DHS stated.

Thales Liberty multiband mobile radio received US Federal Communications Commission (FCC) certification in April. The Liberty radio is made in the U.S. and is the first multiband, software-defined LMR designed specifically for government agencies and first responders, the company said.

The MBR prototype is capable of operating in the primary public safety bands between 136-174 megahertz (MHz) and 380-520 MHz as well as in the 700 MHz and 800 MHz bands. Additionally, when authorized, the MBR is capable of operating on the Department of Defence bands in the 136-138 MHz and 380- 400 MHz ranges as well two Federal Government bands: 162-174 MHz and 406.1-420 MHz. This capability will for the first time let for Federal agencies interoperate with local, tribal, regional, and state counterparts, the DHS said. Carrying a price tag of \$4,000-\$6,000, the MBR is equal in form, factor, and cost to existing high-end portable radios, the DHS said.

Copied from: <http://www.networkworld.com/community/node/43196>

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HRO-SA Communications

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André (ZS2BK) : 082 651 1658

**VISIT OUR WEBSITE : www.hamradio.co.za
OFFICE HOURS 8:00am-4.30pm (4.00pm Fridays)**

**For more info on Donovan's
DXpedition to LESOTHO, 7P8D – see
<http://www.zs2dl.co.za/7P8D.html>**



Sunday Bulletins

PEARS bulletins are transmitted on Sundays immediately after the SARL English transmission, i.e. at about 08:30 on 7098 kHz as well as the 2 metre linked network that provides from Butterworth to George and up to the Free State and their environs. PEARS 7098 or 3640 kHz transceiver facilities are also remotely linked as needed. In addition, the SARL's 40 m operations on 7082 or 7066 kHz or Hamnet's 7070 kHz can be remotely patched to the 2 m network in receive only mode or with full transceive capability for interactive events.

A recorded rebroadcast of the bulletin takes place on the Eastern Cape Linked Repeater Network every Monday night at 20h00 courtesy of various volunteers who rotate this duty.

Bulletin Roster

28 Oct.	Chris	ZS2AAW
4 Nov.	Patsy	ZS2PTY
11 Nov.	Theunis	ZS2EC
18 Nov.	Johannes	ZS2JO
25 Nov	Tony	ZR2TX
2 Dec	Glen	ZS2GV
9 Dec	Llise	ZR2LLD

The bulletin readers are always looking for something to announce. If you have something to contribute, please forward it to the next reader.



CONGRATULATIONS

BIRTHDAYS – November

03 Gwen XYL of Dennis ZU2KF Hibberd
05 André ZS2ACP Botes
05 Chantelle XYL of Linton ZS2ICE Rohl
06 Viv ZS2VM Moore
06 Lisa XYL of Grant ZR2GEC Currin
06 Anne XYL of Terrence ZS2VDL van der Linden
08 Martin ZS2MR Ras
12 Laetitia XYL of Gerrit ZS2XD Rautenbach
14 Dorothy XYL of Ron ZS2MF Clarke
17 Cheryl XYL of Arno ZS2ABT du Preez
19 Gareth Wilson
23 Colin ZR2CRS Schroder
26 Isolda ZS2IW Williams

ANNIVERSARIES – November

03 Dorothy and Ron ZS2MF Clarke
12 Colette and Cordell Schnetler
17 Joan and Barry ZS2H Jackson
20 Mel and Beavan ZS2RL Gwilt
20 Shirley and Stoffel ZS2C Carr
30 Elize and Garth ZS2HB Laaks

If you are a member and your birthday or anniversary details are omitted or incorrect, please notify Clive ZS2RT (or any committee member) to update our records.

DIARY OF EVENTS

31 October	Garden Route Rally briefing at the Italian Club
1 November	Wrinkly Ravers (Cattle Baron)
2 – 3 November	Garden Route Rally
3 November	RaDAR Contest
10 – 11 November	Worked All Europe DX Contest
13 November	The Pears HF DX Contest
17 – 18 November	SARL National Field Day
23 Nov – 3 Dec	LESOTHO, 7P8D, DX-pedition
24 November	PEARS End-Of-Year Function
24 – 26 November	CQ World Wide CW Contest
28 November	SARL 80 m Digital Club Championship
2 December	SARL Digital Contest
6 December	Wrinkly Ravers (Cattle Baron)

Your Society's Committee for 2012/2013

Chairman, Events organising	Tony Allen ZR2TX	082 956 2920	tony.zr2tx[at]gmail.com
Vice Chairman, Technical/repeaters	Glen Cummings ZS2GV	082 411 2743	glen[at]peham.co.za
Secretary, Events organising	Llise Dodd ZS2LLD		llise[at]peham.co.za
Treasurer	Clive Fife ZS2RT	041 367 3203	clive[at]peham.co.za
Social, Meetings	Patsy Kruger ZS2PTY		patsy[at]peham.co.za
Public Relations	Johannes Geldenhuys ZS2JO	082 320 3032	Johannes[at]s4.co.za
Events	Fred Leibach ZR2FM	086 619 9650	fredl[at]postnet.co.za
QSX Distribution, Contests, Awards	Theunis Potgieter ZS2EC	082 766 8830	zs2ec[at]qsl.net
Technical/repeaters, WiFi	Chris Scarr ZS2AAW	082 925 6367	christopher[at]peham.co.za

CO-OPTED POSTS

RAE Examination Admin.	Donovan ZS2DL	082 852 4885	zs2dl[at]hamradio.co.za
Assessors	Rory ZS2BL Chris ZS2AAW Donovan ZS2DL Bill ZS2ABZ	072 026 8909 082 925 6367 082 852 4885 041 581 2580	rory[at]commco.co.za christopher[at]peham.co.za zs2dl[at]hamradio.co.za zs2abz[at]isat.co.za
VHF, Hamnet contest scoring	AI ZS2U	041 360 2983	al[at]peham.co.za
Contest Committee	Theunis ZS2EC Mike ZS2FM	082 766 8830 084 612 9600	contest[at]peham.co.za mcbosch[at]webafrica.org.za
Meetings catering	Bill Hodges ZS2ABZ	041 581 2580	zs2abz[at]isat.co.za
QSX Editor	Eric Hosten ZS2ECH	072 8414 693	qsx[at]peham.co.za

Replace [at] with @ when you want to send an email (this is done to try to prevent spamming).

PEARS' VHF/UHF, Packet & Other Services

Local Repeaters:

These repeaters form a separate sub-net in the PE - Uitenhage - Despatch area.

Town VHF 145,050/650	Town UHF 431,050/438,650	Uitenhage 145,075/675	Tygerhoek 145,000/600	Longmore 145,025/625
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Cape Linked System Repeaters:

These form the PEARS long-range 2-metre repeater system, in conjunction with the Border, Southern Cape and WCRWG systems. See www.zs2pe.co.za/Repeaters/repeaters.htm for more details.

Lady's Slipper 145,100/700	Grahamstown 145,150/750	Cradock 145,050/650	Noupoort 438,750 / 438,675
Colesberg 431,075/438,675	Kareedouw 145,127/725	Plett 145,175/775	Brenton 145,075/675

Packet network:

ZS0NTP-2 Packet Node Lady's Slipper 10,151 LSB 300bd APRS 144,800 1200bd 438,275 1200bd (FWD) 434,875 9600bd 434,800 1200bd APRS Cape Linked System	ZS0NTP BBS Lady's Slipper On all node frequencies	ZS0GHT-2 Packet Node Grahamstown 144,800 1200bd 434,800 1200bd (FWD) 439,850 9600bd	ZS0CDK-2 Digi Cradock 144,800 1200bd
	ZS0KDJ APRS Digi Mount Road 434,800 1200bd	ZS0KDB APRS Digi Longmore 434,800 1200bd	ZS2ABZ-4 WMR918 WX Station 144,625 1200bd

VHF Beacon: 50,006 MHz FSK – ZS2X, 25 Watts into 2 element Yagi beaming north.

Banking details (for subs & donations): NEDBANK SAVINGS ACCOUNT No. 221 252 7594, Bank code 121217, A/C name: Port Elizabeth Amateur Radio Society. **Please use call signs as a reference.**

TO:

**IF NOT DELIVERED
RETURN TO**

Port Elizabeth Amateur Radio Society
PO Box 10402
LINTON GRANGE
6015

AMATEUR RADIO is the hobby for RADIO EXPERIMENTERS
and those who like to fiddle with ELECTRONICS,
COMMUNICATIONS or COMPUTERS