

October - November 2016



Andrew ZS2G setting up a SOTA station on Perdeberg – see page 9.

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 Monthly Meeting

7:30 pm at the Italian Sporting Club, 17 Harold Road, Charlo.

Tuesday 18th of October

TED ZS2TED, tbc

Tuesday 15th of November

tba

DIARY OF EVENTS

1 October	South African Radio League Spring QRP Contest
6 October	SARL 80 m QSO Party
8 October	Antique Wireless Association Valve AM QSO Party
9 October	Antique Wireless Association Valve SSB QSO Party
14 - 16 October	Jamboree On The Air
15 October	CQ HouKoers
18 October	PEARS Monthly Meeting
20 October	RAE
21 October	PEARS Fish & Chips evening at the Italian Club
29 October	Local Rally
29 - 30 October	CQ WW DX SSB Contest
5 November	RadAR Challenge
5 November	RSGB International Sprint, SSB
6 November	The Pears HF DX Contest
15 November	PEARS Monthly Meeting
20 November	King's Beach Triathlon
25 - 26 November	Year End Rally
26 November	CQ Worldwide DX Contest, CW
4 December	South African Radio League Digital Contest

PEARS is having a Fish & Chips evening on the 21st of October, 18H00 for 18H30 at the Italian Sporting Club.

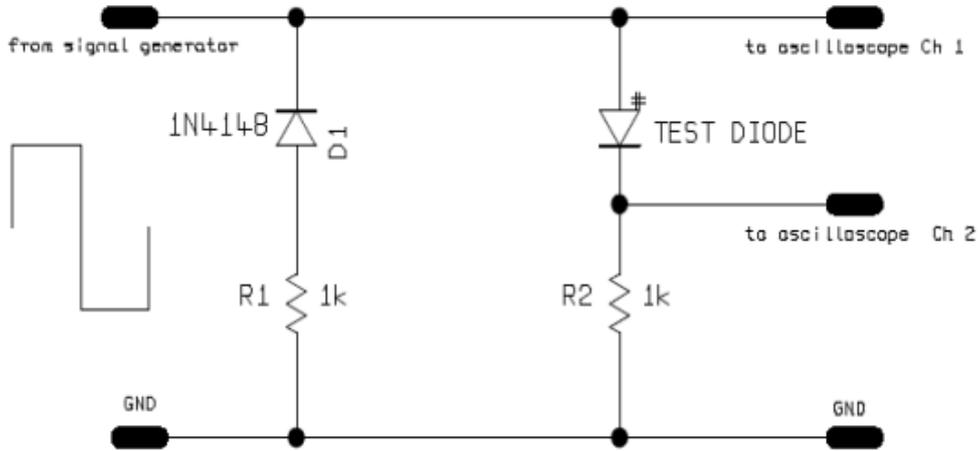
Costs are R50 pp - please book with Clive ZS2RT for catering purposes.

If you hold a ZU license and are older than 25, your license will expire on 31 March 2017 and will not be renewable. ICASA recommends that the affected persons enrol for a Class A license course and write the next RAE. The revised regulation stipulates that persons under 20 years old can write the Class B examination and if successful, can hold a ZU or Class B license until 25 years old after which, if they would like to continue with Amateur Radio, they have to sit the Class A examination to qualify for a Class A license. On 31 March 2017, the grace period that the SARL negotiated with ICASA expires.

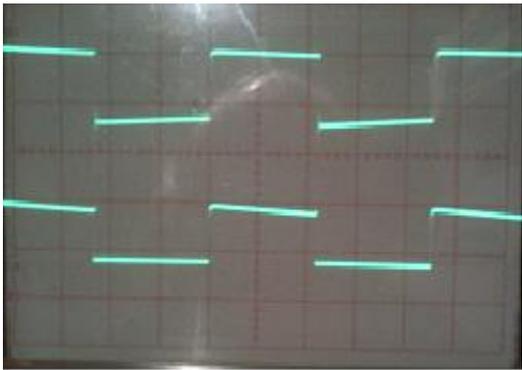
From my Work Bench (part 9)

by Allan, ZS2R

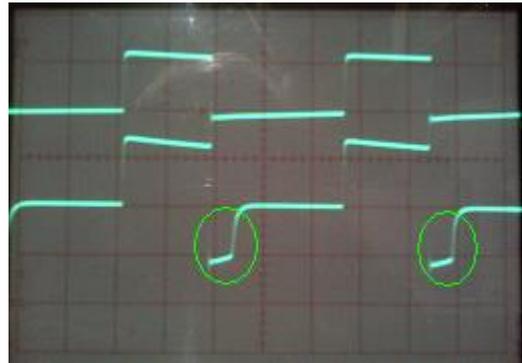
In number 7 of this series I made mention of the fact that diode reverse recovery times are important in many of today's circuits like switch mode power supplies and others. I also indicated that I would set up an experiment to measure this property of diodes. I used my home brew square wave signal generator running at about 22 kHz, a 30 MHz oscilloscope and the circuit below.



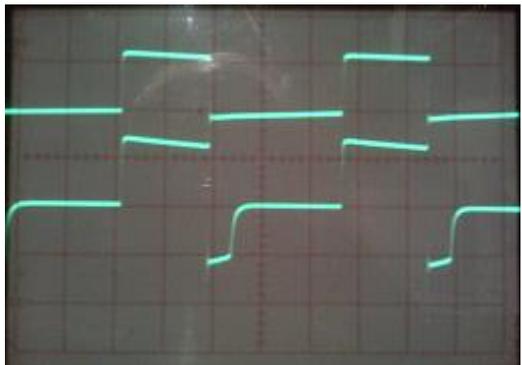
D1 and R1 are included to ensure that my, capacitively coupled, square wave remains symmetric about 0 V. Thus the signal to Channel 1 of the oscilloscope (and the test diode) will change from 0 to +5V then down to -5V and back to 0V to complete 1 cycle. Below are the results of these measurements on a few common diodes or perhaps they should be called rectifiers.



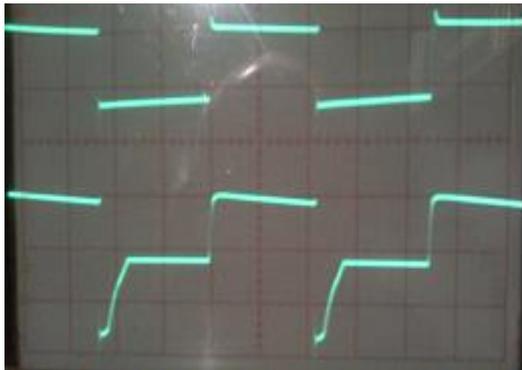
Test diode 1N4148 showing 0 reverse current.



The reverse current is indicated in the green ellipse. For a 1N5401

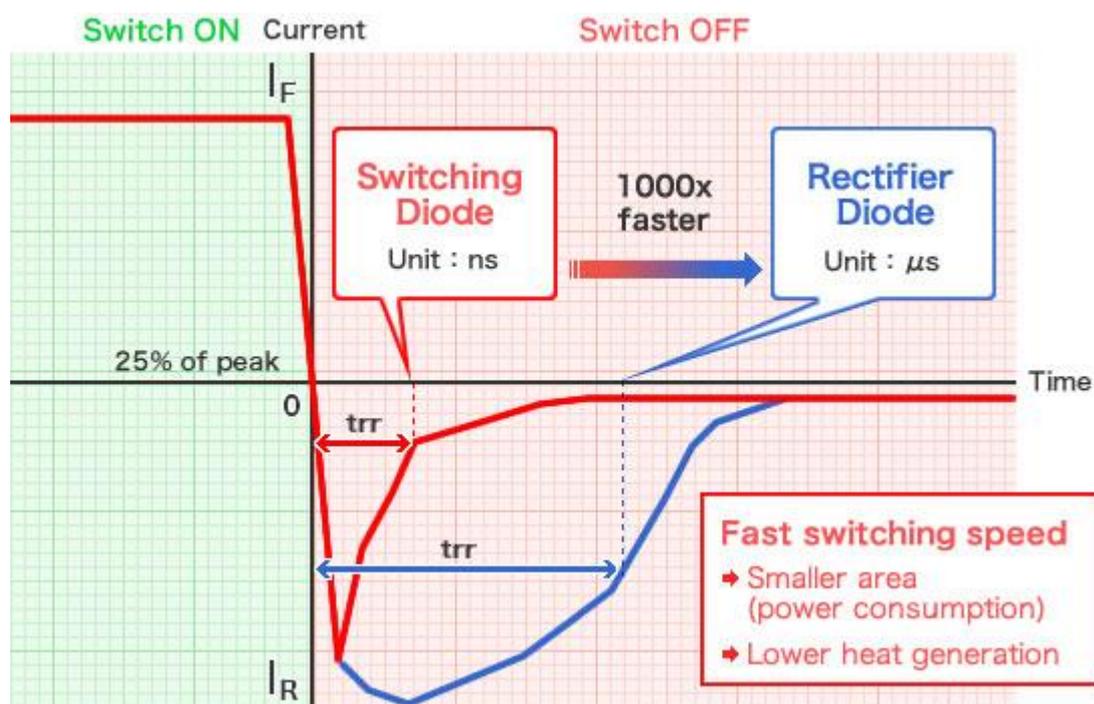


Test diode from motor car alternator



Test diode 1N4004

I was quite pleased to find results similar to those depicted below. This diagram illustrates the phenomena.



What is reverse recovery time (t_{rr})?

The reverse recovery time t_{rr} refers to the time it takes for the switching diode to turn completely OFF from an ON state. Generally, electrons cannot be stopped immediately after operation turns OFF, resulting in some current flow in the reverse direction. The higher this leakage current is, the greater the loss. The magnitude of this reverse current depends on the circuit and the diode properties.

So next time you replace a diode make sure it is the right kind and avoid disappointment.

---oooOOOooo---

The Pears HF DX Contest

- Aim**
The aim of the PEARS HF DX Contest is to encourage Southern African radio amateurs to work DX.
- Contest Period**
The contest will take place on Sunday 6 November 2016 starting at 12:00 UTC and ending at 16:00 UTC.
- Modes and Frequencies**
It is a phone only contest with activity on the 20, 15 and 10 metre band.
- Entrance Categories**
Single Operator, Base or Field Station.
Multi Operator, Base or Field station.
- Station Requirements**
Stations may use the maximum power permitted according to the regulations in the country of operation.
- Points**
One point is earned for each QSO.
A station may be contacted once on each contest band.
Field stations must multiply their score by two (2) and a further multiplier of two (2) is available if the station uses a non-gain antenna with reference to a dipole.
Then the score is multiplied by the number of countries contacted.
- Exchange**
Call sign and RS report.

8. Awards

Should more than three logs be received per category, a certificate will be awarded to the winner in each category.

9. Logs

Log sheets must be submitted by 20 November 2016 to the Port Elizabeth Amateur Radio Society, PO Box 10402, Linton Grange, Port Elizabeth, 6015 or by e-mail to contest[at]peham.co.za. No late submissions will be considered.

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New wireless hack can unlock almost every VW made since 1995

Copied from: <http://mybroadband.co.za/news/motoring/175661-new-wireless-hack-can-unlock-almost-every-vw-made-since-1995.html>

Security researchers have discovered how to remotely unlock hundreds of millions of cars, including almost every car Volkswagen has sold since 1995.

According to a report by Wired, the researchers will present their findings on how to use a software defined radio to unlock the vehicles at the Usenix security conference this week.

In terms of the VW models affected, only the latest Golf-based models (Golf 7) are safe from the vulnerability.

Flavio Garcia from the University of Birmingham led a group of hackers who reverse-engineered a "Volkswagen component" to extract a cryptographic key value that is common to a number of the manufacturer's vehicles.

The key value was then combined with a unique value encoded into a key fob for an individual car – which was obtained via "electronic eavesdropping".

This is done when the owner of the car presses the key fob button to unlock their vehicle. The value is captured via radio equipment, which must be within 100 metres of the key when it is pressed.

This gave the researchers a clone key that could unlock that car. This can be done to multiple key fobs, and the unique code only has to be captured once.

The report stated that VW has acknowledged the vulnerability.

The researchers also exploited an older cryptographic scheme called HiTag2, and using electronic eavesdropping cracked the scheme in under one minute.

The second exploit affects Alfa Romeo, Citroën, Fiat, Ford, Mitsubishi, Nissan, Opel, and Peugeot vehicles, stated the report.

"Both attacks use a cheap, easily-available piece of radio hardware to intercept signals from a victim's key fob, then employ those signals to clone the key," said Wired.

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Hammies at the Donkin Reserve

Dave Higgs ZS2DH

Below is a photo of the Hammies taken at the Donkin Reserve where they manned the lighthouse for the International Lighthouse and Lightship weekend.



Our new ZUs are...

Back (RTL) Graydon Higgs (ZU2GH), Ashton Keating (ZU2A), Juanita Keating, Andrew Gray (ZS2G), Dave Higgs (ZS2DH)

Front (RTL) Ryan Keating, Dakota Watson (ZU2DW), and Michael Higgs (AKA Mikey Moo) ZU2MOO

Al, ZS2U came out with his kombi and set up the station for the Hammies. Al got there a lot earlier than planned and managed to work quite a few stations before the Hammies arrived. The Hammies were all very impressed with the kombi and loved the whole "camper" idea.

Dakota, in particular, enjoyed operating from inside the bus and Ryan enjoyed exploring the back of the bus!

Andre (ZS2ZA) and Andrew Gray (ZS2G) also arrived and set up stations - The Zulu set up an impressive 2m station and Andrew set up a 20m station which later saved us on 40m too.

Juanita (Mom of Ashton and Ryan) and Beverley (XYL of Dave ZS2DH) kept the catering side of it all going.

While we did not make as many contacts as the ZS9V station (who made a mere 700 or so more QSOs) but we had a lot of fun and it got the kids on the air and the adults out for a day in the sun! A number of stations became extremely tollerant of the youngsters when the heard their personal callsigns. It is amazing the support the Hammies get from oms out there!

Many thanks too to Gert ZS2GS and Mike ZS2MDL who made the effort to pop in and visit inspite of being involved in the Baviaans the night before.

Thank you too to Bill Hodges ZS2ABZ who came out for the morning and joined us before having to go off for the Maritime Net. Bill also manned the Cape Recife lighthouse on the Saturday.

Unfortunately plans for the Seal Point lighthouse in Cape St Francis were washed away.



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IoT solution helping to reduce electricity line losses in Nigeria

Copied from: <http://www.engineeringnews.co.za/article/iot-solution-helps-reduce-electricity-line-loss-by-35-2016-09-23>

Global information and communication technology (ICT) services provider Huawei's advanced metering infrastructure (AMI) solutions have enabled energy conglomerate Sahara Group's Nigerian power distributor Ikeja Electric to reduce line losses from 46.2% to 11.6%.

This has led to electricity bill collection increasing from 60% to 100% and revenue improving by about 350%.

Sahara Group COO Rotimi Onanuga told media during a session at the Huawei Connect 2016 conference, which took place in Shanghai from August 31 to September 2, that before the privatisation of Nigeria's electricity generation sector in 2013, more than 50% of consumers had no metering system. As such, billing became extremely difficult, resulting in a billing-by-estimation approach being followed by utilities.

Onanuga highlighted that this resulted in inconsistent electricity payments and also encouraged illegal grid connections.

To resolve these challenges, Ikeja Electric partnered with Huawei to develop an Internet of Things (IoT) solution using the ICT company's AMI open architecture for an end-to-end solution, providing information from the point of distribution to the point of trade.

Huawei Enterprise energy solutions director Johnson Chen asserted that, owing to AMI's ability to reduce line losses and improve bill collection, lending organisations were more likely to provide financing for the solution. He also noted that the effectiveness of Huawei's AMI solution enabled it to provide a return on investment within three to five years.

Huawei's AMI solution comprises data collection platforms (DCP), which send and receive data from wide area networks (WANs) and neighbourhood area networks (NANs).

The DCP contains a head-end system, also known as a meter data collection system, which interacts with devices, manages communications protocols, adapts Internet protocols, as well as collects and stores metering data.

DCP also comprises a meter data management system (MDMS), which focuses on business applications, such as managing data analysis, monitoring the operating status of systems, compiling statistics and analysing reports, as well as managing operations and maintenance.

Open interfaces enable the MDMS to operate with independent software vendor systems, such as billing, supervisory control and data acquisition, or Scada, and energy management systems.

The WAN system links data concentrator units (DCUs) with the DCP, enabling data transmission concerning electricity distribution. A NAN comprises meters, DCUs and communication networks that acquire and store data of consumers, which is then transmitted through the WAN to the DCP.

Onanuga highlighted that effective two-way communication between Ikeja and its customers had been the key to the company's success. Since installing Huawei's AMI smart metering systems, Ikeja has increased its customer population from about 158 000 to 353 000.

To date, 61 000 meters have been installed in Ikeja Electric's area of coverage and 300 000 are targeted for installation by April next year.

Telkom's impressive new solar park

Copied from: <http://mybroadband.co.za/news/energy/180600-telkoms-impressive-new-solar-park-details-and-photos.html>

Telkom's new photovoltaic solar farm at its campus in Centurion is fully operational, and is providing around 16MWh per day.

Construction of Telkom's new photovoltaic solar farm at its campus in Centurion was recently completed, and is now fully operational. Telkom's solar park produces 16MWh of power per day, and covers roughly 1,800 car ports. Solar panels are mounted on angled car port roofs. Telkom said it reconfigured the parking on its campus to ensure maximum gain throughout the day. In addition to configuring the car ports with the solar panels in mind, Telkom said it re-engineered the parking structures to handle gale-force winds. Telkom used the latest solar panel technology available, which is heat resistant, wind resistant, and hail resistant. The panels have a 25-year lifespan. In August Telkom's solar park generated 484MWh of energy, which is in line with the targets which the company placed during the building process. "The park is currently close to reaching the 3MW peak load expected during the sunniest part of the day, and averages around 2.5MW peak per day," Telkom said. Telkom will now be embarking on a feasibility study for the expansion of solar and other sustainability linked initiatives throughout Telkom properties.



PERDEBERG - A SUMMITS ON THE AIR [SOTA] MOUNTAIN PEAK [ZS/EC-009] 1,651M - by MANDY [ZS2AV] and ANDREW [ZS2G]

18 / 19 JUNE 2016

On 18 / 19 June 2016, Andrew and I drove to Aberdeen to try and get to the top of Perdeberg in order to do a SOTA activation. Perdeberg until then had not been activated as yet.

We arrived on Saturday midday at the Lategan's farm, on which the mountain is situated. It was a beautiful day and the weather was absolutely perfect.

Mrs. Lategan took us in her vehicle to show us the route and pointed out which road to follow and where to start from.

We started out a little too late on Sunday morning as we were under the impression that it will be an easy climb.

During the night, I could hear the wind blowing quite badly and this concerned me a little. The wind wasn't too bad during the climb but gradually got stronger. By 11H00 the wind was so strong that I decided I am not going further and that it is not safe. Andrew tried going up a bit further but also turned back and we made our way back to our vehicle. We were very close to the peak [we thought at the time], so you can imagine the disappointment when we had to turn back. It is never a happy moment when we fail to summit.

Dave, ZS2DH, can support us here. [BLOUKOP!!!!] and some others which we won't mention.

24 / 25 SEPTEMBER 2016 - SUCCESS!!

JULY 9 / 10, 2016 - was the last time Andrew and I did any form of hiking or mountain climbing so needless to say, when Andrew asked me if I don't think it's time to try Perdeberg again, I was a little uncertain about our fitness levels. On the other hand, once Andrew or I decide to go and climb a mountain, we don't allow anything to stand in our way and we just go ahead and do it. Unfortunately or perhaps fortunately, whichever way you want to take it, we are both a little impulsive at times. We have reached some amazing goals however, so it can't be a bad thing. [Big grin].

We left PE on Saturday morning at about 09H30 and arrived at Aberdeen quite late as we stopped at a few places and as I also forgot the instructions to get to the farm at home, took the wrong turn for the last 23 kms and had to turn back. That wasted a little time and needless to say, I was a little embarrassed by my navigational skills. We eventually arrived at the farm and I did some unpacking and prepared dinner, while Andrew checked all the radio equipment for the next morning.

This time we started out very early. We started out at 06H00 and started our climb at about 06H15. The weather was perfect this time and we prayed that it will stay like this the whole day, which it did, thankfully. We did remarkably well, considering we hadn't done any form of hiking for 11 weeks. I play a lot of squash during the week which keeps me fit but every sport requires a different level of strength and fitness. Andrew carries very heavily on the radio equipment and battery so I am always amazed at how strong he is considering the weight he carries.

We did very well, and stopped every once in a while for water and snack breaks and also to keep a close watch on the direction we are going as we knew there will be no paths from a certain point. The jeep track helped us to a point and then we had to start fighting thorn bushes and thick growth.

Andrew told me afterwards, he knew it was going to be difficult closer to the top and we would have to go through a gorge, but nothing could have prepared us for just how difficult it became. We eventually got to a fence which was very new and beautifully done and followed this until we got to a very big boulder where we had to crawl through the fence in order to continue upwards and finally to the peak. I thought for a while, that we are never going to find the beacon and the top of this mountain as we could only see the beacon lower down the mountain. It was therefore a case of "keep moving upward, and hopefully we will eventually find our goal". And this is exactly how it happened, when I was almost at a point of giving

up and just going home, there it was - in front of us. By now Andrew and I both had to stop for short breaks due to bad cramping. What a happy moment this was.

We starting setting up our station immediately, as we never know when the wind is going to start torturing us, when Andrew started searching frantically for the microphone. We looked everywhere and turned rucksacks inside out. Eventually we found it in Andrew's emergency kit. [ANOTHER BIG GRIN X2].

We made many contacts, which was such an awesome experience and thanks so much to our very own PEARS members who also contacted us. You have no idea how much we appreciate it.

On our way down, we discovered a beautiful road which runs all along our mountain peak, which made us both smile a little, but we love climbing the mountains the HARD WAY, just for the first time, so wouldn't have changed the hard work for anything. If there is a next time, we will go the easier route. The SOTA rule is, that you must climb the last 100 m, so the beautiful road which will take us close to the peak, will definitely be the option for a next time.

Mandy and Andrew



MINUTES OF PEARS AUGUST MONTHLY MEETING

Held at the Italian Sporting Club on 16th August 2016
at 19H30

Welcome

Chairman Chris ZS2AAW welcomed all present.

Attendance:

As per the attendance register.

Apologies - ZS2DD, ZR2TX, ZS2WG

Acceptance of the Minutes of the Previous Meeting:

These were circulated in the QSX, proposed by Clive ZS2RT and seconded by Beavan ZS2RL

Matters Arising:

nil

Correspondence:

None

Finance:

The treasurer Clive ZS2RT reported that everything was in order with the society's finances and that to date, there were approximately 94 paid up members.

Expenses

- Internet per month R3215
- Electricity R459
- Printing R104
- Event claim R3 600 (Zuurberg)
- Repeater exp R2 520
- Repeater locks R2 681

Income

- VW Rally donation R8 000

General:

- The cancellation of the ZS2MUS licence is still to be taken up with Ken ZS2OC
- HF Field Day on the 10-11th Sept – Proposed a camp out at Van Stadens
- Local 50k Rally on 3 Sept
- Proposed a Fish n Chips evening on Oct 22nd at R50 p/p. This was later changed to the Friday evening 21 Oct
- Paul ZS2PG requested assistance with a 40m dipole to be erected at his QTH. He also enquired as to who could assist him with programming EPROM's
- Some discussion was held in connection with the Trans-Baviaans Mountainbike Race, but the main debrief will happen when Tony is in attendance. A debrief was later scheduled for the 20th September at 18h00 (before the committee meeting)

Tea and Coffee was served

Meeting closed

at 20h02.

Speaker

Jimmy De Scande presented the talk as promised by Colin ZR2CRS, on the Leopard Trail in the Baviaanskloof, with a collection of photos taken on their outing

Chairman: C Scarr

Secretary: C Scarr

MINUTES OF PEARS SEPTEMBER MONTHLY MEETING

Held at: Italian Sporting Club on 20 September 2016
at 19H30

Welcome:

Chairman, Chris ZS2AAW, welcomed all present. A special welcome to ZS2PA Andrew, with our Guest Speaker Johan van Vuuren ZS2JV. Also a special welcome to new members, Barry, Dillan and Charl.

Apologies:

ZS2MG, Michael, in Cape Town.

Ken, ZS2OC

Ted, ZS2TED

Gert, ZS2GS, in hospital.

Johan, ZS2XD

Attendance:

As per the Attendance Register.

Acceptance of the minutes of the previous meeting:

Proposed:

Seconded:

Correspondence:

The issue regarding ZS2MUS was discussed. Al, ZS2U, confirmed that it can be cancelled.

Clive, ZS2RT, mentioned the letter received from ZR2MK, Bathurst regarding change of address. QSX will be sent.

Finance:

Clive reported:

- Investments: R20,809.00
- Savings: R19,997.00

Expenses:

- Internet per month R3,215.00
- Transbaviaans R1,771.00
- Rally Expenses VW R1,168.00
- Electricity R 512.00
-

Income:

- Transbaviaans Pending

General:

- Chris, thanked everyone who assisted with the Transbaviaans event.
- Tony, gave a short report back of the event which took place over 2 weekends. He also mentioned how important our work is for the average 450 teams that take part as well as their support teams, who constantly need information which we can provide. Tony is also in the process of putting APRS systems in place which will make future events more successful. Tony also thanked Chris for his work and mentioned that 18 PEARS members assisted.
- Tony did a lucky draw for a jacket which was given by the Transbaviaans organizers. Isolda assisted and Mike de Lange ZS2MDL won the jacket.
- Chris thanked Tony for all his work with the various events and Tony advised everyone present to keep watching the QSX for information on various events.
- Tony also thanked the Uitenhage members for their assistance with a follow up event which took place recently.

- Chris, mentioned the Fish and Chips evening on 21 October 2016, 18H00 for 18H30 at R50.00 per person and advised that Clive must be informed of attendance for catering purposes. Thanks to Italian Club for the use of their facilities.
- Dave: HF FIELD DAY, Saturday midday to Sunday midday, 10 & 11 September. Dave reported all went well but that they did have a little bit of rain. [This took place at Van Stadens]. He also mentioned that Andre, ZS2ZA came to visit them.
- Barry mentioned JOTA, SUNRIDGE and Ewalt mentioned a DF MALHERBE event for the near future.
- Colin asked about the WIFI issue which is resulting in loss of funds and Chris advised that we are in the process of solving the problems.
- Dave mentioned JOTA which will have a "YOUTH ON THE AIR" event in December and that they don't have to be licenced to take part.

Topic for the evening:

Our speaker for the evening was Johan van Vuuren ZS2JV and the topic was Metro finances and Pre-payment systems.

The next meeting will be held on 18 October 2016.

The meeting closed at 21H15.

Chairman: Chris
Secretary: Mandy

**Swaps: 2005 – Navstar SY- 101 29 MHz hand held and Pacific aerial.
Contact Roland Gathercole at 041 367 4163 or 078 189 7868**



**Green metal 20 ℓ petrol jerrycan to swap for a yellow diesel equivalent.
Contact Eric ZS2ECH 072 8414 693**

CONGRATULATIONS

BIRTHDAYS – October

- 01 Eric Hosten ZS2ECH
- 04 Donovan van Loggerenberg ZS2DL
- 06 Norma Flanagan, XYL of Terry ZS2ABB
- 08 Vanessa Scarr ZS2VS, XYL of Christopher ZS2AAW
- 12 Neil Thomas ZR2NT
- 13 Llise Dodd ZS2LLD
- 15 Denise Gray ZS2DG
- 24 Cathy Gerstle, XYL of Wolf ZS2WG
- 26 Patricia (Patsy) Kruger ZS2PTY
- 26 Stoffel Carr ZS2C
- 27 Edward (Ted) Smook ZS2TED

ANNIVERSARIES – October

- 01 Tony ZR2TX and Deidre Allen
- 03 Mike ZS2FM and Susanna Bosch
- 08 Michael ZS2MD and Christel Opperman
- 12 Donovan ZS2DL and Rosalee ZS2DN van Loggerenberg
- 17 Yacov ZS2YCL and Chantal Look
- 20 George ZS2GO and Anneke Whitehead
- 24 Al ZS2U and Jo ZS2W Akers

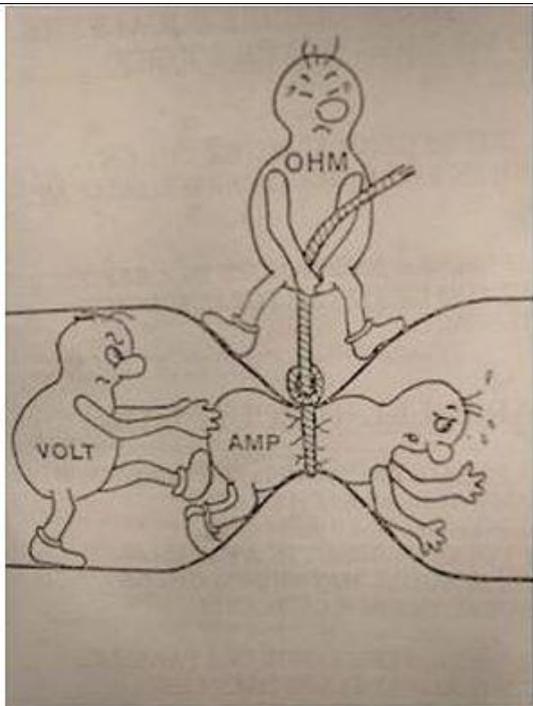
BIRTHDAYS – November

- 05 Andre Botes ZS2ACP
- 06 Viv Moore ZS2VM
- 08 Martin Ras ZS2MR
- 12 Laetitia Rautenbach, XYL of Gerrit ZS2XD
- 14 Dorothy Clarke, XYL of Ron ZS2MF
- 17 Mario Jansen van Vuuren ZS2MVV
- 21 Aidan van Loggerenberg ZS2CV
- 23 Colin Schroder ZR2CRS
- 26 Isolda Hosten ZS2IW

ANNIVERSARIES – November

- 03 Ron and Dorothy Clarke ZS2MF
- 09 Tim and Brigitte Jones ZS2TIM
- 17 Barry and Joan Jackson ZS2H
- 20 Beavan and Mel Gwilt ZS2RL
- 20 Stoffel and Shirley Carr ZS2C
- 27 Ian and Maggie Moore ZS2IJ

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.



Sunday Bulletins

PEARS provides a local reading of the SARL national bulletins in Afrikaans at 08h15 and English at 08h30. The club bulletins are transmitted immediately after the SARL English bulletin, i.e. at about 08:45 on 7098 kHz as well as the 2m linked network that provides coverage from Butterworth to George and up to the Free State and their environs.

A recorded rebroadcast of the society bulletin takes place on the Eastern Cape Linked Repeater Network every Monday night at 20h00, courtesy of Ewalt, ZS2EHB.

Bulletin Roster

www.zs2pe.co.za/bulletins.htm

2 October	Tony	ZR2TX
9 October	Clive	ZS2RT
16 October	Johannes	ZS2JO
23 October	Dave	ZS2DH
30 October	Andrew	ZS2G
6 November	Mandy	ZS2AV
13 November	Eric	ZS2ECH
20 November	Glen	ZS2GV
27 November	Chris	ZS2AAW
4 December	Tony	ZR2TX

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



HAM RADIO OUTLET-SOUTH AFRICA cc

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Your Society's Committee for 2016-2017

Chairman, Wifi, Repeaters	Chris Scarr ZS2AAW	082 925 6367	christopher[at]peham.co.za
Vice Chairman, Events & Rally organising	Tony Allen ZR2TX	082 956 2920	tony.zr2tx[at]gmail.com
Secretary	Mandy la Mude ZS2AV		Amandavigne[at]gmail.com
Treasurer	Clive Fife ZS2RT	041 367 3203	clive[at]peham.co.za
Technical/repeaters/SAR comms	Glen Cummings ZS2GV	082 411 2743	glenvanessa[at]gmail.com
Public Relations, meetings	Johannes Geldenhuys ZS2JO	082 320 3032	johannes[at]s4.co.za
QSO	Eric Hosten ZS2ECH	072 841 4693	eric.hosten[at]nmmu.ac.za
Hamnet Liaison	Andrew Gray ZS2G	079 490 0292	agray[at]mandelametro.gov.za
Hammies club, PR, Youth	Dave Higgs ZS2DH	082 387 5657	om[at]zs2dh.co.za

CO-OPTED POSTS

RAE Examination Admin.	Donovan ZS2DL	082 852 4885	zs2dl[at]hamradio.co.za
HF Assessors	Bill ZS2ABZ Donovan ZS2DL	041 581 2580 082 852 4885	zs2abz[at]jisat.co.za zs2dl[at]hamradio.co.za
Hamnet scoring	Al ZS2U	041 360 2983	
Contest Committee	Theunis ZS2EC, Al ZS2U	082 766 8830 041 360 2983	contest[at]peham.co.za
PEARS VHF/UHF Contest	Mike ZS2FM	084 612 9600	mikebosch[at]gmail.com

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	Longmore 145,025/625	IRLP available on this subnet
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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 (link only) 438,750 / 438,675
Colesberg 431,075/438,675	Kareedouw 145,125/725	Plett 145,175/775	Brenton 145,075/675

Packet network:

ZS0NTP-2 Packet Node Lady's Slipper 144,800 1200bd 439,850 9600bd 434,800 1200bd APRS	ZS0NTP BBS Lady's Slipper On all node frequencies	ZS0GHT-2 Packet Node Grahamstown 144,800 1200bd 434,800 1200bd 439,850 9600bd (to LS)	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: 50,007 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.**

Disclaimer.

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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