

*May 2013*



Ironman 2013. Photos by Conrad ZS2CON.

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](http://www.zs2pe.co.za/Newsletter/Newsletter.htm)  
or [www.commco.co.za/pears.htm](http://www.commco.co.za/pears.htm)

# PEARS AGM

Saturday 18<sup>th</sup> of May, 3 pm

**Boot sale starts 2 pm, Bring & Braai after the AGM.**

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

*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:**

It is hard to believe that 2 years have passed since my first monthly ramblings and that this will be my last as Chairman of PEARS.

It certainly has been an interesting time, to say the least. I got to know many members of the club, seen their good and sometimes bad sides, but most of all made many new friends. I am looking forward to stepping back and supporting the new Chairman in his, or her, endeavors during the coming year.

For those of you who have not heard, the date of the AGM was changed to 18 May, same time and place. Please make an effort to attend as it promises to be an enjoyable afternoon.

Some members will be helping out with the Longmore Rally on 11 May and then a small team is travelling to the Karoo over the weekend of 24 - 26 May to assist with the Presidents Air Race.

Before we know it the VW Rally will be upon us and then we need all the help we can get to continue with the high level of service which we usually provide. In between there are repeaters to fix, contests to participate in and DX to be worked. As you can see there is always something happening, no matter what your area of interest. I might even find some time now to complete some of those projects lying in boxes in the shack waiting for attention.

In closing I would like to thank each and every one of you for your support over the past 2 years and hope that you provide this same commitment to the new Chairman and Committee.

73 Tony ZR2TX

## **WRINKLY RAVERS- NEW VENUE!!!!**

The next regular monthly lunchtime meeting of the Wrinklies will take place on Thursday the 2<sup>nd</sup> of May at 'Beyond Beans' in Newton Park. 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!!!!**

## **PEARS CLUB SUBSCRIPTIONS ARE DUE 1<sup>ST</sup> OF APRIL 2013**

It is that time of the year again and club subscriptions are now due. R100 per member. Spouses pay R30 and students R30. Wifi fees are R150 per month.

The Club's banking details are: Nedbank Savings; Account No: 221 252 7594; Branch Code 121217.

**When making a bank deposit please use your call sign as a reference.**

# PEARS AGM — 19 May 2012

Meeting held at Italian Club, 1430.

1. **Welcome.**

Chairman Tony ZR2TX bade everybody welcome, especially John ZR2JDV and visitor Barry ZS2NM.

2. **Attendance.**

As per register.

3. **Silent keys.**

The meeting observed a period of silence in remembrance of the XYL of Johan Harmse ZS2HH.

4. **Minutes of 2011 AGM.**

These were distributed and approved Proposed by ZS2EC, seconded by ZS2DK Matters arising: None.

5. **Treasurer's report.**

Clive ZS2RT distributed copies of his report, and highlighted the unauthorised deduction of R853 from our account by MTN. MTN admitted liability and Clive is currently trying to recover the money from them, but it is proving to be an uphill battle. Acceptance proposed by ZS2PG, seconded by ZS2E — report accepted

6. **Presentation to Auditor.**

The Chairman presented our honorary auditor Gus ZS2MC with a gift in appreciation of his services. Gus agreed to continue as auditor.

7. **Golf shirts.**

Tony ZR2TX reported that the shirts would be ready during the forthcoming week.

8. **Chairman's report.**

Tony ZR2TX presented his report and expressed his thanks to committee members and the members in general for their support during the past year. During his report Tony mentioned inter alia the following:

- We need to publicise AR by getting involved in activities which are visible to the public (e.g. rallies, mountain bike races, ironman, etc.). Doing this will help to attract new blood to the hobby.
- DX-ing is central to AR — we need to promote this. ZS2EC offered to write articles on DX for QSX.
- Tony issued a challenge to the constructors in the club to devise construction kits for new members.
- The need to get the club's recently acquired container down to PE, so that it can be kitted out as a mobile station.

Acceptance proposed by ZS2EC, seconded by ZS2BK.

9. **Motions.**

No written motions were received by the secretary.

10. **General.**

- The VW rally takes place on 13-14 July. ZS2AAW and ZS2RL gave a brief outline of the event.
- Uniondale — Knysna mountain bike race. Visitor Barry ZS2NM had enquired whether we would be interested in assisting with comms, which would be mainly HF. We indicated our interest, and he would get back to us. The event takes place towards the end of the year.

11. **Awards.**

- Club awards: Ou Toppies to Barry ZS2H, Garth ZS2HB.
- Appreciation certificates: ZS2RT for many years as Treasurer; ZS2BL and ZS2EHB for the reading of the HQ bulletins; ZS2GV for his readiness to assist with tower climbing; ZS2AAW for all his tireless work on the repeater system; ZS2ECH for doing a good job as QSX editor; ZS2RL for coordinating motor rallies; ZR2CRS for assisting with events and the donation of radio marshal bibs and a gazebo; ZS2DL for conducting RA classes.
- Trophies
  - Constructor's: to Allan ZS2R for his solar charger regulator;
  - Merit Cup: Theunis ZS2EC for activity on the air;
  - DX Trophy Gerrit ZS2DX
  - VHF Trophy: Andre ZS2BK for having achieved WAC;
  - Ham of the Year to Andre ZS2BK.
- PEARS VHF Contest certificates handed to the numerous recipients.
- Hamnet Shield: to Des ZS2ABU.

12. **Election of Chairman.**

Tony ZR2TX stepped down and Beavan ZS2RL acted as chairman for this item. Tony ZR2TX proposed as Chairman by ZS2BO and seconded by ZS2RT. There were no other nominations, and Tony resumed as chairman.

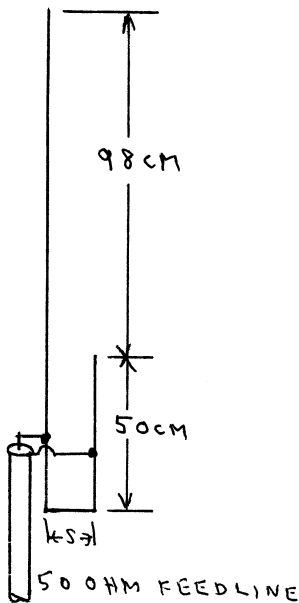
13. **Election of Committee.**

The following were proposed, accepted nomination, and were elected: ZS2EC, ZS2JO, ZS2GV, ZS2A4W, ZS2RT, ZS2PTV, ZS2LLD, ZR2FM.

There was no other business, and Tony ZR2TX closed the meeting at 15h45, whereupon everybody departed to the braai fires.

## SHORT RANGE TWO METRE ANTENNAS – PART 4

BY AL AKERS – ZS2U



A quarter wave line is useful for matching purposes

$$(Z_o)^2 = Z_{in} \times Z_{out}$$

Where:

$Z_o$  = Line impedance

$Z_{in}$  = Impedance at one end

$Z_{out}$  = Impedance at other end

The J antenna has been around for a long time and makes use of a quarter wave open-wire line for matching. When the bottom end of the quarter wave line is shorted (i.e. very low impedance) the top end presents a very high impedance which matches the very high impedance at the bottom end of the half wave dipole. This is connected to one leg of the quarter wave line. By tapping up on the line, a point can be found that has a 50 ohm impedance to match the feed line.

Connecting the antenna to one leg of the quarter wave line loads that leg, while the other leg is unloaded. This results in unbalanced currents in the line and some radiation which, combined with the antenna radiation, causes an up tilting of the radiation pattern.

↑ J antenna (s is not critical – approx. 4 cm).

## THE VHF SPECTRUM AND ABOVE RECEIVING TECHNIQUES ON VHF & UHF

When radio amateurs first started to experiment on the “UHF” frequency of 56 MHz and higher they soon discovered that the normal HF circuits were not efficient on these frequencies or often did not work at all. The cornerstones of VHF circuitry are based on short, low impedance leads and small components as these form part of the tuned circuits, where the input tuned circuit of the VHF/UHF receiver is still the most critical part that affects a low noise figure (NF).

### VHF/UHF TUBE (VALVE) TYPE RECEIVERS

The biggest problem was that only a few vacuum tubes (valves) could work on these VHF frequencies at reduced efficiency. The most efficient receiver design at that time was the super regenerative principle. Amateurs managed to get a few tubes to work on higher frequencies by removing the plug-in bases and made connections directly to the tube leads. RCA solved this problem by producing the miniature acorn series of tubes such as the 955 that featured side contacts.

When tubes were miniaturized in the postwar era, the 6AK5 became the most popular low noise tube as the pre-amplifier stage in VHF and UHF converters. A tube type converter comprises a RF amplifier stage, a mixer stage and a crystal oscillator stage, which converts VHF/UHF frequencies to a suitable intermediate frequency (IF) that can be received on a standard HF receiver. The gold plated very low noise tube type 614B made its appearance as the ultimate low noise tube, and the end of the tube era ended when nuvistors came on the scene.

### VHF/UHF TRANSISTOR TYPE RECEIVERS

When transistors first appeared they did not work at all on VHF frequencies or higher. As the solid state technology improved so did transistors for VHF and UHF operation such as the GaAsFET devices, which produced very low noise figures (NF) on VHF and UHF unattainable by any vacuum tubes. As the FETs and MOSFETs were further developed it could rival the noise figures of GaAsFETs in the VHF spectrum, and unlike the latter were gate protected against static discharges. Today it is quite easy and practical to construct a low noise solid state converter for any VHF or UHF band as a wide selection of modern low noise transistors are available.

Regards Mike, ZS2FM

Please note that I will be off the air for a while as we are changing QTH at the end of April.

## VHF NEWS

- **ZS2X/b HEARD IN ST. HELENA** – Ken, ZS2OC, reported that he received a message that the ZS2X beacon on 50,007 MHz FSK has been heard several times in St. Helena. Unfortunately no further details are available.
- **STRONG TROPO OPENINGS ON EAST AND WEST COASTS OF SOUTH AFRICA** – On Monday evening 15th April 2013 strong Tropo openings occurred along the east and west coasts of South Africa as predicted by the Hepburn Forecasts. Dave, ZS5DJ, worked Peter, ZS2ABF, and John, ZS2AH, in East London on 144,300 MHz SSB at S9 plus until after 21:00 CAT. In Cape Town Max ZS1MO and Mike ZS1FP contacted Andre V51B in Oranjemund around 18:30 CAT via the local repeater on 145,750 MHz at Kanonkop. This Tropo opening could have extended inland too, but there was nobody around to check it. The next morning before 07:00 CAT Dougie ZR1DS and Geoff ZR1GFT also hooked up with V51B.

### RESCUE RADIO: HAM RADIO RESPONDS TO BOSTON MARATHON TERRORIST ATTACK

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

Some 250 ham radio operators were providing communications for the Boston Marathon on Monday, April 15th, when a pair of bombs believed planted by a terrorist went off killing three onlookers and sending scores to local hospitals. Some with very serious and life threatening injuries. Amateur Radio Newsline's Mark Abramowicz, NT3V, is here with what's known about the attack and the role played by the hams on scene:

It is a day Paul Topolski, W1SEX, will never forget. Topolski tells Newsline he was working with radio operators close to the finish line of the Boston Marathon and things were going well. And then, there was the first blast..

"I was in the net control trailer about 400 feet from where the blast was," he recalls. "Things were going pretty smooth and we had and were commenting all of the operations that we had were up and running and no real issues.

"And, within a couple of minutes my assistant and I just happened to be looking at each other out of the corner of our eye and then that blast hit and shook the trailer and we knew it wasn't good."

Topolski says then the second blast went off and they knew things were going to be brought to a halt. He says their big concern, operators at the medical tents at each mile along the route..

"Net control immediately started doing a roll call and finding out where all our people were - exact locations and their condition, making sure that they were okay. And, as it turns out everyone was just fine and continuing operations."

Just before that roll call began, Topolski told his counterpart overseeing net-control on the course to reach

out to him on a secure line..

Steve Schwarm, W3EVE, who also spoke with Newsline about the events of that day, was on the receiving end of that call and was a bit surprised...

"He calls me on the radio and says, 'Call me on my cell phone.' And, I know something's got to be wrong because he'll only talk to me on the cell phone when it's something he doesn't want anybody else to hear," Schwarm says.

"So, I called him on the cell phone and that's when he told me that two bombs had gone off in downtown and said I

don't know what's going to happen next, but thought you'd like to know and I said thanks.

"So, I stopped all the activity in my net control and announced it to everybody there and I said that we don't know what's going to happen next, but I'm quite sure the race is probably over."

Topolski, who was at the medical tent close to the finish line, says once it was established all those close to the bomb locations were okay, there was general agreement among the operators to stay at their posts and assist...

"It was a kind of a mindset, 'Okay, we did have a problem and let's continue to do our jobs,' and everybody did just that until we were finally sent on our way by the Boston Police Department and the Massachusetts State Police because we were literally right in the "ground zero" area," Topolski says. "We were in the crime scene so we had to bug out."

But, before they were sent out, Topolski says the operators were busy helping medical personnel...

"Instead of taking care of runners, we were now working with the medical people who were serving casualties from the incident itself," Topolski says. "We had medical coverage, or coverage in the medical tents and we started receiving reports of those injuries and the types of things that were going on and then we were relaying that information to the public safety people via WebEOC and other means."

Topolski estimates those closest to the blast zones were there for about 35 minutes afterward until they got sent out because of concerns among authorities about other possible devices.

Back to Schwarm at course net control, who in the minutes after the blasts was now working with operators still out on the course.

"Police were ordering people to stop," Schwarm says. "So runners tended to congregate at the first aid stations and

the water-fluid stations along the course. And all of them had ham radio operators.

"So, as soon as that happened, we told everybody on the frequency what was going on. The event had stopped and they would start to organize those people. And, then we started to use some of our medical sweep buses to take the runners to some pre-determined shelters.

"The original thought was that if we had something like a thunderstorm come through and had lightning and things like that we wouldn't want all these people on the course. So, that was the original intended use for the shelters but they found out that they could be used for this as well."

Schwarm says for the operators close to the blast zones, it was a hectic time....

"They supplied communications for the medical tents and that was where a lot of the initial triage of the runners occurred and a lot of lives were probably saved because they had basically a first-class emergency room right there," Schwarm says.

But the day was far from over for Topolski and his operators who were evacuated from the developing crime scene, Schwarm says....

"The roles actually got reversed because they were concerned about having another device in the area so they had a lot of people evacuated," Schwarm says. "Paul and his team evacuated and several of his operators came up to help me in case we were going to be doing an extended operation."

"It wasn't clear how long it was going to take for us to get this thing cleaned up and they came up to help in case we needed some backup. I was very concerned about some of my net control operators getting exhausted, needing some backup. So I knew he had some good people and they came up to help out."

So, where was net control for the course? Schwarm says the Boston area hams put it at a perfect location...

"We're actually quite a distance from the course," Schwarm says. "We're about a mile or two from the course. It's at a

facility, it's a private school in Brookline which is a suburb of Boston.

"And, it's on top of a very high hill, which, if we had to, we could probably work every single repeater we use with a 100-milliwatt walkie-talkie because we can see them all - literally. And, it makes an ideal location for it and we also then have high-speed internet at our fingertips and several phone lines and a few things like that. It's a very nice facility."

So what form of communications do the hams who work the Boston Marathon use? VHF frequencies only, Schwarm says...

"The Boston Marathon is the only marathon that's run in a straight line," Schwarm explains. "And we plan on having HT-coverage for the entire course and the finish and the start. So, as a result, you tend to use a fair number of frequencies to make that happen."

"We use five separate repeaters to cover five sections of the course. And, then we have a network of linked repeaters that we use to cover the entire course from beginning to end just for things that need to be covered across that range."

Topolski has been involved in the marathon amateur radio coverage for 20 years. For Schwarm, this was his 13th year and he says it won't be his last.

"I think what you'll find is that next year we're going to have a bigger and better Boston Marathon and we're going to go on," Schwarm says. "I mean we went through a lot of planning and soul searching for these kinds of things after 9-11 and this was probably a wake-up call to re-think some of those."

#####

The following photo was sent by Beavan ZS2RL:

"I was at the Old Cash Store, and took this pic of a father with his disabled son on a 'basket' on the front of his specially modified bike. The son seemed to be severely disabled, both mentally and physically. No idea how they did the swimming leg of the event, or the 20 km run for that matter. The pic will not win any photographic prizes – taken with a cellphone in great haste. I was very touched by this scene – the love of a parent knows no bounds."



# THE PEARS MONTHLY MEETING HELD ON THE 16<sup>TH</sup> OF APRIL 2013 AT THE ITALIAN CLUB, PORT ELIZABETH

## WELCOME

The chairman, Tony ZR2TX, welcomed all to the meeting as well as John ZS5GB who is visiting the Friendly City.

## ATTENDANCE

As per the attendance register.

## MINUTES OF THE PREVIOUS MEETING

Beavan ZS2RL proposes the acceptance of the minutes. It is seconded by ZS2CO.

*Matters arising from the previous meeting.*

Many club members have received invoices for their radio amateur licenses. It is every person's choice whether he/she wants to pay his/her license for one year or five years.

## FINANCIAL REPORT

Clive ZS2RT presents a healthy report. He also mentions that the subs are slowly, but surely being paid.

## GENERAL

### Change of AGM's Date. NB!!

At the previous months' meeting it has been decided to have the PEARS AGM on the 11th of May 2013. The club, however, has been contacted by Joe Fourie from Algoa Rally to assist with communication for a rally that is taking place on the 11th of May in the Longmore Forest. Although it is a regional rally, national teams will be joining the event as a trial for the Volkswagen Rally. About 10 volunteers are needed for the event. As PEARS has a good relationship with Algoa Rally and would like to help with the event it is decided to have the **AGM on the 18th of May 2013.**

Tony requests members to give thought about who they would like to see on the **committee for the following year.** He also requests members who are in the possession of **trophies** to please hand them back as soon as possible and any suggestions of possible winners for awards must be put forward to the committee.

Barry ZS2H asks to address the meeting. He says that the Wrinkly Ravers have been meeting at Giorgio's for quite a while and for a considerable time they have not been happy with the service and the quality of the meals. Barry decided to do something about the situation and in his search for an appropriate venue he found a coffee shop in Newton Park called Beyond Beans. The management is friendly and although the coffee shop has a simple menu it is value for money. A breakfast or light meal is offered at R20 per person. Barry ZS2H says that he hopes that with the new venue more people will attend the Wrinkly Ravers every first Thursday of the month.

A meeting with the organizers of the Ironman South Africa that took place on the 14th of April 2013 showed that PEARS once again did an excellent job in assisting with communication during the event. Members who were involved in the event pointed out the following:

- There was pressure on the VOC (venue operational center) to sort out a water shortage problem at the Medics tent. The problem was caused due to a misunderstanding between the organizers and the medics.
- There is a need for a radio operator in the ambulance.
- The cross banding worked excellent.
- The handhelds that were used by the operators enabled one operator to manage a point.
- The Traffic Control almost caused an accident by not being in position and not knowing the protocol.

## CLOSURE

The meeting closed at 20H15 and after refreshments Nick ZS2NT gave an inspiring talk about his life and his work.

# Super-powered battery breakthrough claimed by US team

By Leo Kelion

Copied from: <http://www.bbc.co.uk/news/technology-22191650>

A new type of battery has been developed that, its creators say, could revolutionise the way we power consumer electronics and vehicles.

The University of Illinois team says its use of 3D-electrodes allows it to build "microbatteries" that are many times smaller than commercially available options, or the same size and many times more powerful.

It adds they can be recharged 1,000 times faster than competing tech.

However, safety issues still remain.

Details of the research are published in the journal Nature Communications.

## Battery breakthrough

The researchers said their innovation should help address the issue that while smartphones and other gadgets have benefited from miniaturised electronics, battery advances have failed to keep pace.

Batteries work by having two components - called electrodes - where chemical reactions occur.

In simple terms, the anode is the electrode which releases electrons as a result of a process called oxidation when the battery is being used as a power source.

The cathode is the electrode on the other side of the battery to which the electrons want to flow and be absorbed - but a third element, the electrolyte, blocks them from travelling directly.

When the battery is plugged into a device the electrons can flow through its circuits making the journey from one electrode to the other.

Meanwhile ions - electrically charged particles involved in the anode's oxidation process - do travel through the electrolyte. When they reach the cathode they react with the electrons that travelled via the other route.

The scientists' "breakthrough" involved finding a new way to integrate the anode and cathode at the microscale.

"The battery electrodes have small intertwined fingers that reach into each other," project leader Prof William King told the BBC.

"That does a couple of things. It allows us to make the battery have a very high surface area even though the overall battery volume is extremely small.

"And it gets the two halves of the battery very close together so the ions and electrons do not have far to flow.

"Because we've reduced the flowing distance of the ions and electrons we can get the energy out much faster."

## Repeatable technique

The battery cells were fabricated by adapting a process developed by another team at the university which is designed to make it faster to recharge the batteries than lithium ion (Li-ion) and nickel metal hydride (NiMH) equivalents.

It involves creating a lattice made out of tiny polystyrene spheres and then filling the space in and around the structure with metal.

The spheres are then dissolved to leave a 3D-metal scaffold onto which a nickel-tin alloy is added to form the anode, and a mineral called manganese oxyhydroxide to form the cathode.

Finally the glass surface onto which the apparatus was attached was immersed into a liquid heated to 300C (572F).

"Today we're making small numbers of these things in a boutique fabrication process, but while that's reliable and we can repeat it we need to be able to make large numbers of these things over large areas," said Prof King.

"But in principle our technology is scalable all the way up to electronics and vehicles.

"You could replace your car battery with one of our batteries and it would be 10 times smaller, or 10 times more powerful. With that in mind you could jumpstart a car with the battery in your cell phone."

## Safety fear

Other battery experts welcomed the team's efforts but said it could prove hard to bring the technology to market.

"The challenge is to make a microbattery array that is robust enough and that does not have a single short circuit in the whole array via a process that can be scaled up cheaply," said Prof Clare Grey from the University of Cambridge's chemistry department.

University of Oxford's Prof Peter Edwards - an expert in inorganic chemistry and energy - also expressed doubts.

"This is a very exciting development which demonstrates that high power densities are achievable by such innovations," he said.

"The challenges are: scaling this up to manufacturing levels; developing a simpler fabrication route; and addressing safety issues.

"I'd want to know if these microbatteries would be more prone to the self-combustion issues that plagued lithium-cobalt oxide batteries which we've seen become an issue of concern with Boeing's Dreamliner jets."

Prof King acknowledged that safety was an issue due to the fact the current electrolyte was a combustible liquid.

He said that in the test equipment only a microscopic amount of the liquid was used, making the risk of an explosion negligible - but if it were scaled up to large sizes the danger could become "significant".

However, he added that he soon planned to switch to a safer polymer-based electrolyte to address the issue.

Prof King added that he hoped to have the technology ready to be trialed as a power source for electronic equipment before the end of the year.

The University of Illinois at Urbana-Champaign team is one of several groups attempting to overhaul the way we power gadgets.

Researchers in Texas are working on a kind of battery that can be spray-painted onto any surface while engineers at the University of Bedfordshire are exploring the idea of using radio waves as an energy source.



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**Congratulations to the following ZS2 who received SARL awards:**

- Johan van Aarde, ZS2I - Jack Twine Merit Award
- Graham Griggs, ZS2ABK - The President's Award
- Andre van Deventer, ZS2BK - Arthur Hemsley 2 metre Trophy

# 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 April	Freddy	ZR2FM
5 May	Chris	ZS2AAW
12 May	Patsy	ZS2PTY
19 May	Chairman	
26 May	Vice chairman	
2 June	Secretary	
9 June	Treasurer	

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 – May

- 01 Marge ZS2OB Weller
- 01 Sanet ZR2SDL de Lange
- 04 Heather XYL of James ZS2ABM Hoole
- 05 Anneke XYL of George ZS2GO Whitehead
- 07 Rouhe XYL of Henry ZS2HD Danielson
- 11 Cornelia Kotze
- 11 Deo XYL of Jaco ZS2JK Kotzè
- 14 Rory ZS2BL Norton
- 17 Lyn XYL of Les ZS2VA Barker
- 18 Mark OM of Llise ZS2LLD Dodd
- 19 Colette XYL of Cordell ZS2CS Schnetler
- 20 Otto ZS2Q van Rooyen
- 22 Bill ZS2ABZ Hodges
- 22 Erich ZS1XZ Rohwer

- 22 Saney ZR1S Martin
- 24 Les ZS2VA Barker
- 31 Shirley XYL of Stoffel ZS2C Carr

## ANNIVERSARIES – May

- 02 Daschell and Johan ZS2JO Geldenhuys
- 02 Shirley and Gus ZS2MC Winter
- 10 Renee and Guy ZS2FOX Middleton
- 12 Susan and Neels ZS2ND du Plessis
- 23 Rouhe and Henry ZS2HD Danielson
- 25 Merle ZR2MP and Neil ZR2NT Thomas
- 28 Chantelle and Richard ZS2RA Ashworth

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

5 May	ZS3 Sprint
11 May	Longmore Rally (not VW rally)
11 – 12 May	Antique Wireless Association Valve QSO Party
18 May	PEARS AGM at the Italian Sporting Club
24 – 26 May	Presidents Air Race
25 – 26 May	CQ WW WPX Contest
26 May	SARL Digital Contest
9 June	ZS4 Sprint

# Your Society's Committee for 2012/2013

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

## CO-OPTED POSTS

<b>RAE Examination Admin.</b>	Donovan ZS2DL	082 852 4885	zs2dl[at]hamradio.co.za
<b>Assessors</b>	Rory ZS2BL	072 026 8909	rory[at]commco.co.za
	Chris ZS2AAW	082 925 6367	christopher[at]peham.co.za
	Donovan ZS2DL	082 852 4885	zs2dl[at]hamradio.co.za
	Bill ZS2ABZ	041 581 2580	zs2abz[at]isat.co.za
<b>VHF, Hamnet contest scoring</b>	Al ZS2U	041 360 2983	al[at]peham.co.za
<b>Contest Committee</b>	Theunis ZS2EC	082 766 8830	contest[at]peham.co.za
	Mike ZS2FM	084 612 9600	mcbosch[at]webafrica.org.za
<b>Meetings catering</b>	Bill Hodges ZS2ABZ	041 581 2580	zs2abz[at]isat.co.za
<b>QSX Editor</b>	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	Town UHF	Uitenhage	Tygerhoek	Longmore
145,050/650	431,050/438,650	145,075/675	145,000/600	145,025/625

### 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](http://www.zs2pe.co.za/Repeaters/repeaters.htm) for more details.

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

### Packet network:

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