



# QSL PE



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

**WEBSITE – [www.qsl.net/zs2pe](http://www.qsl.net/zs2pe)**

**PO BOX 10402  
LINTON GRANGE  
6015**

**APRIL 2006**

# PEARS' MONTHLY MEETING

The monthly general meeting of the **PORT ELIZABETH AMATEUR RADIO SOCIETY** for the new year will be held on **Thursday, 20 April 2006** at the St Hugh's Church Hall, Newton Park, starting at 20:00 (8 pm).

After the business has been completed, Barry Murrell ZS2EZ will give a talk on the *Tools of the Modern Dxe*.

Bill Hodges ZS2ABZ will attend to the inner man.

## Wrinkly Ravers

The next get-together of the Wrinklies will take place on Thursday, 4 May 2006 at the usual venue, Barneys, Circular Drive, Lorraine.

I was not present at the April rave, being hopefully in Cape Town at that time, but I assume everything went well and the members enjoyed themselves with all the crosstalk and miscellaneous QRM.

Let's see if all the Wrinklies in PE will attend the May effort.

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## **ANNUAL GENERAL MEETING** **JAARVERGADERING**

The Annual General Meeting of the Port Elizabeth Amateur Radio Society will be held on Saturday, 27 May 2006. It will take place in the **Walmer Scout Hall** and it will start at 1430 (2,30pm).

The Agenda is as follows:

1. Welcome
2. Minutes of 2005 Annual General Meeting
3. Chairman's report
4. Treasurer's report
5. Club awards
6. Election of Chairman
7. Election of Committee
8. Discussion of motion/s
9. General
10. Close of Meeting

Please note that any motions that you would like to have discussed at the AGM must be in the hands of the Secretary by not later than the April 2006 general meeting of the Society.

Die Jaarvergadering van die Port Elizabeth Amateur Radio Vereniging sal op Saterdag, 27 Mei 2006 plaasvind. Dit sal in die **Walmer Verkennerssaal** gehou word en sal om 1430 (2,30nm) begin.

Die Sakelys is soos volg:

1. Verwelkoming
2. Notules van 2005 Algemene Jaarvergadering
3. Voorsitter se verslag
4. Tesourier se verslag
5. Klubtoekennings
6. Verkiesing van Voorsitter/voorsitster
7. Verkiesing van Komitee
8. Bespreking van mosies
9. Algemeen
10. Sluiting

Neem asb. Kennis dat enige mosies wat u graag op die sakelys vir die AJV wil plaas, die Sekretaris nie later nie as die April 2006 algemene vergadering van die Vereniging moet bereik. **Q**



This year I will be attending a League AGM which will be quite a unique experience in that there are no motions to be discussed.

In the past I would say at a guess, we had an average of ten motions per AGM, and one could well wonder to what extent we benefited from all this.

I remember that, in the earlier years, a motion that came up regular as clockwork was to approach the licensing authority to increase the power limit. Result? The power limit was increased from 100 watts to 150 watts, a barely noticeable (1.8 dB) difference. Those years there were and now still are those who run appreciably more power than this.

One motion that was proposed some time ago which I cannot remember, but I do remember being amazed that it should have been proposed. At the AGM, only my branch and maybe one other voted against it, so it was carried, which amazed me even more.

The following year there was a motion to rescind this motion. I was well prepared to support the rescinding, but before I had a chance, other delegates, notably the East London one, said it all and the motion to rescind was carried.

Rules and laws are quite often made that are ill-researched, or maybe even have an ulterior motive. The lesson to be learnt is that if something is important enough, do not make a hasty decision. Research it well first.

73,

Al, ZS2U

## Radio Technology in Action

The Radio Technology in Action programme takes place on Saturday, 29th April and is an occasion that should not be missed.

Unfortunately, there will be some talks running concurrently, which means that one will have to sacrifice one to listen to the other. Two of these are the ones on Solar Cell Technology by Dr. Ernest van Dyk, and Communications in Disaster Management by Ken ZS2OC.

I have therefore arranged for Ken ZS2OC to give a repeat of his talk at a future club general meeting, so members can attend the former talk by Dr. van Dyk.

## Social

Welcome to Vaughn Luppnow ZR2VL who has joined Hamnet and ECARES. It is especially good to have a paramedic as a member.

## Congratulations to:

Bill ZS2ABZ who came 3rd in the base station category of the 2005 Hamnet Simulated Emergency Contest;

Glen Cummings, who now sports the callsign of ZS2GV, Martin Ras who now sports the callsign of ZS2MR.

73,

**Al Akers, ZS2U**  
**Provincial Director:**  
**Hamnet/ECARES**

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# **AL AKERS GETS HONORARY LIFE MEMBERSHIP OF SA RADIO LEAGUE**

At the SARL AGM dinner held on 8 April, Honorary Life Membership was bestowed on Al Akers, ZS2U, for his dedication to Amateur Radio over many years.

We know Al's main interest is in designing and building antennas as well as operating not only from his shack but also from his mobile station. This latter must be a leader among the best-equipped mobile amateur stations in South Africa, with radios of various frequency ranges from HF up to UHF.

But apart from this, Al always finds time to help his fellow-ham, whether it is with technical advice or actual construction of antennas. And it is all of this that has led to his being awarded Honorary Life Membership.

Congratulations, Al!

## **OUR SUBS BECOME DUE**

Subscriptions for the 2006/2007 PEARS financial year fall due at the end of April. The amount has been left at last year's figure, namely R60, (R30 for Spouses and Learners) and you may pay your subs to Clive Fife ZS2RT or deposit it into our bank account.

If you prefer to pay by bank transfer,

you can deposit your subscription in the PEARS account: Nedbank Main Port Elizabeth branch, account no. 2212527594. The branch code is 121217.

Please enter your name in the reference blocks on the deposit slip so that Clive knows who it is from.

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## **PRESIDENT'S NET**

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During the President's Net on Sunday, 19 March we learned that the SA Radio League already has 1285 members on its books. This is a very satisfactory situation and it is hoped that they will soon reach the 1300 mark and go even greater.

One of the points which, I am sure, has been going on in one's mind is whether there are any motions. There were none mentioned in the e-mail documents although the agenda referred to the discussion of motions. The President, Graham Hartlett ZS6GJH, replied that there was, in fact, none. This must be one of the first SARL AGMs with nothing to talk about, but it also augurs well for our trust in the present council!

Graham mentioned that there are plans to broadcast the various items at the AGM, using 2 metres as well as 40 and 20 metres. This will be another first, and it will be very welcome. Hopefully our southern repeater system will enable us to put it back onto 2 metres down this way as well.

Having heard some of the various club retransmissions of SARL bulletins, I suggested that they make the use of speech processors illegal! I don't know how Chris has our system set up but the equipment at Lady's Slipper surely kills all background noises and puts out a good, clean signal onto 2 metres.

Would that others could be persuaded to follow suit! 📻

**MINUTES OF THE MONTHLY MEETING OF THE  
PORT ELIZABETH AMATEUR RADIO SOCIETY  
held at the St Hugh's Church Hall, Newton Park, Port Elizabeth on  
16 March 2006**

**Welcome:**

The Chairman welcomed everyone to the meeting. 30 attendees.

**Present and Apologies :**

As noted in the attendance register, ZR2VDL, ZS2GIB

Guests: Clive Swanepoel (RAE candidate)

**Acceptance of Previous Meetings Minutes :**

Proposed : ZR2AG Seconded : ZS2MM.

**Matters Arising:**

None.

**Correspondence:**

In: One bank statement, several adverts

Out: None.

**Finance:**

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

**General:**

Transceiver operating test this Saturday at OM Bill's QTH

German station applying for CW award, 500 contacts.

Congratulations to the following upgrades: ZR2MR – ZS2MR, ZR2GV – ZS2GV.

The chairman handed out the following certificates:

ZS2EZ PEARS VHF/UHF Contest – Div 2 single op category on 70MHz and longest distance (11km)

ZR2GLP – PEARS VHF/UHF Contest – longest distance on 70MHz (11km)

ZS2ACP – not present


Al offered two SARL League badges.

He also offered to take proxy forms up to the SARL AGM. No motions of any note tabled for the SARL AGM.

Al will ask for a date change for the Hamnet SE Contest, which clashes with the AGM.

RTA event was further discussed, the program will be published.

The formal meeting **closed** just before 20h20

**ZS2BO** gave a talk on renewable energy sources after the tea break. 

# Use a COMPUTER POWER SUPPLY for your HAM RADIO

Mike Hanslow ZS1RMS, P O Box 866 George 6530

Discarded old computer power supplies make perfect switch mode power supplies (SMPS). For general ham radio use, they are compact, very efficient and weigh next to nothing.

More often than not one would be able to get one for free with the constant upgrading of computer systems.

Depending on the PC model, they are rated anywhere between 150 and 300 Watts. Typically the output of a SMPS is 20 Amps @ +5 Volts, 8 Amps @ +12 Volts, and ½ Amp for the -12 Volts and -5 Volts.

If your SMPS uses a TL494 14 pin

reference voltage at PIN 2 is 2,5 volts.

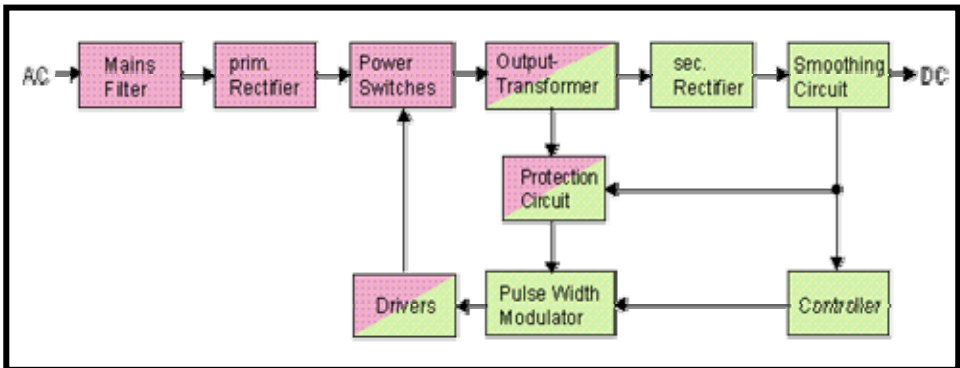
Basically all you have to do is to create a new voltage divider network. By using one leg of the existing divider network, I only needed to use one resistor connected to the 13,8 volt line. Using off the shelf resistors I managed to get my supply to give me 13,2 volts.

Unfortunately SMPS are not suitable to be converted to a variable voltage power supply. Some SMPS's skimp on the mains voltage filtering. Spares can easily be scrounged from disused parts from the local computer repair shop.

To neaten up and make the power

## ***Take Note!***

***Use the utmost caution and care when working on a SMPS. There are lethal DC voltages present!!!!***



***Basic block diagram of a SMPS***

IC, then there is not much tinkering required to convert the output 12 voltage to 13,8 volts. As per the diagram blow, the TL494 using PWM (pulse width modulator) regulates the output voltage.

The regulated output voltage through a voltage divider network is applied to PIN1, which in turn is compared to the reference voltage of PIN 2. The nominal

supply more presentable, unsolder all unused wires. With a bit of filing, I fitted a car lighter socket where the grommet passed all the wires through.

There was no notable birdies generated from the SMPS. Voltage regulation dropped from 13,2 volts down to 11,63 volts with the SMPS under a load of 8,35 amps. 📍

# RADIO TECHNOLOGY IN ACTION

This service by the SA Radio League will be held on Saturday, 29 April 2006 in the Nelson Mandela University, Port Elizabeth. We have secured two halls, numbered 35 0G04 (that's a G) and 35 0101, which are on the southernmost end of the South Campus. See below for directions.

There will be a charge of R20 per adult. Learners will be admitted free on presentation of their student cards.

Each entrance fee carries a lucky number for a variety of prizes. Just what they are will be announced in due course.

A dining room will be available where one can purchase food and other items to eat and drink.

**The programme** will look like this:-

**0900 (350G04) Plenary: Official opening** by the President of the SARL, Graham Hartlett ZS6GJH.

**0915 Miraculous Bell at the Villa Griffon**, by Tony Voorvelt ZS6CCD. This lecture demonstrates the early years of Guglielmo Marconi's experiments in radio communication. Tony makes use of replicas of the early equipment that Marconi used. During the lecture Tony will attempt to re-enact the transmissions as Marconi performed them from his home, the Villa Griffon, Italy.

**1015 Practical Lightning Protection Principles**, by Warren Botton. During the past decade enormous advances in technology have brought sophisticated electronics into our homes and ham shacks. Miniaturisation has made them more susceptible to interference from

lightning and load switching. Warren will review how problems occur, the principles of protection and offer practical solutions.

## **1115 Refreshment break**

The Conference will resume in two streams: **Technology** and **Operating**.

**1130 (350G04) Antenna applications:** Al Akers ZS2U:

**1130 (350101) Microprocessors and Amateur Radio:** Allan Whitehead ZS2R

**1215 (350G04) Communications in Disaster Management:** Ken Victor ZS2OC

**1215 (350101) Solar Cell technology:** Dr. Ernest van Dyk

**1300 Lunch break and ragchew.** Light lunches will be available.

**1345 (350G04) The SARL and the DA Programme:** Graham Hartlett ZS6GJH and Ivan Newman ZS2ILN

**1345 (350101) Powerline Communication, Interference Reporting and IARUMS:** Hans van de Groenendaal ZS6AKV

**1415 (350G04) Digital Modes of the Future:** Barry Murrell ZS2EZ

**1415 (350101)** Exploring the electromagnetic waves – with special reference to amateur radio: **Mike Bosch ZS2FM**

Electromagnetic waves pervade the whole universe. It provides the only means with which we can explore deep space and make measurements without actually going there. On Earth



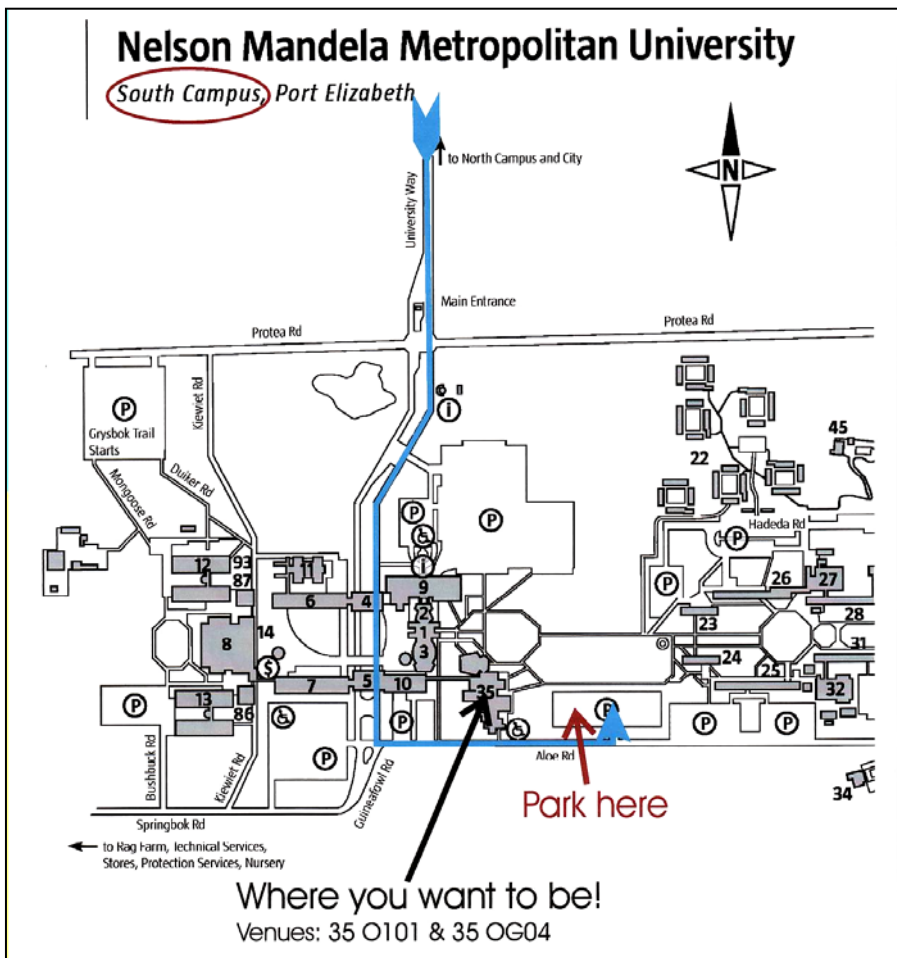
it makes things visible to us, provides radiant heat that we can feel, provides communications over large distances that enables us to see through solid objects. Some time in the future it might establish the only link between us and aliens in space.

**1530 (350G04) Final plenary; Amateur Radio: Where to next?** This will take the form of a discussion group. You make the input!

**1615 (350G04) Closing Remarks by Graham Hartlett ZS6GJH, and the drawing of attendance prizes.** You must be present to win!

**1455 (350G04) Repeaters:** Chris Scarr ZS2AAW

**DIRECTIONS:** Those going to the RTA should continue past the North Campus, go right on through the South Campus, and turn left at the end, as shown in the sketch. Please park in the parking area.



# Tropical Bands



Mike Hanslow, ZS1RMS

With the poor HF conditions, one is tempted to venture into the broadcasting bands to see what is happening "out there". To our readers, the phrase "tropical bands" conjures up images of some distant holiday destination.

A long-standing international agreement has set aside these frequencies between 2000 to 5900 KHz for broadcasting stations located between the Tropics of Capricorn and Cancer.

And it is these bands, the 120 Meter Band (2300 – 2495), 90 Meter Band (3200 – 3400), 75 Meter Band (3900 – 4000) and the 60 Meter Band (4750 – 5060) that are referred to as the tropical bands.

Most, but not all, countries strictly adhere to these guidelines. The most common exception is "out of band" broadcasting where stations use adjacent frequencies allocated to other types of radio services.

The second exception is that not all tropical band stations are in the tropics. One old Soviet tropical band station was actually located in Murmansk, north of the Arctic Circle! So, tropical band stations are not necessarily tropical.

Because most tropical band stations are broadcasting just for listeners in their own country, transmitter powers are usually low. Antennas are also designed for Near Vertical Incidence Skywave (NVIS) to provide relatively local coverage.

High static levels in the atmosphere of the tropics due to thunder storms would make Medium wave reception more

difficult than in other regions of the world.

This greatly restricts MW coverage. MW signals would also require much higher transmitter power to cover the same area as compared with transmitters operating in the Tropical Bands.

Tropical bands are not the best place for long-distance propagation of radio signals and very little international broadcasting is done down there. The lower shortwave frequencies only propagate long distances in the dark. For Tropical Band DXing, the listeners will be bound to nocturnal listening with some enhancement from the gray line.

Throw in some QRN (static noise) and QSB (fading), and you have the biggest DX challenge the shortwave broadcast bands have to offer.

Happy DXing, 

Reference:

<http://donmoore.tripod.com/genbroad/dxinfo.htm>

<http://www.anarc.org/naswa/index.html>

## *The only possible unit!*



**Lecturer:** "One of the most efficient chokes I ever had was made from an old Ford spark coil."

**Member of Audience:** "With a value of one henry, I suppose?"

# Pearstalk



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

## **INTERNATIONAL MUSEUMS WEEKEND**

The sixth International Museums Weekend special event will take place on the weekend of 17th and 18th June. Radio amateurs are encouraged to participate in this event by setting up stations in their local museums.

Harry, M1BYT, who is organising the event, asks that all those intending to join in should register their museum via the International Museums Weekend website,

[www.ukradioamateur.co.uk/imw](http://www.ukradioamateur.co.uk/imw).

He also requests that they e-mail their details to him at e-mail address [harry.m1byt@tiscali.co.uk](mailto:harry.m1byt@tiscali.co.uk).

Further details about the event can be obtained direct from Harry on 077 4003 0644. [RSGB News and Rory ZS2BL]

## **ASIA-PACIFIC BROADCAST UNION WANTS MORE SHORTWAVE BAND SPACE**

Shortwave broadcasters say that they need more spectrum to overcome congestion in the 4 to 10 MHz band. At least that is the view of an official of the Asia-Pacific Broadcasting Union.

The APBU was among a group of broadcasters that participated in a Global Shortwave Coordination Conference held earlier this month in Hainan, China.

This, in preparation for an upcoming World Radiocommunication Conference slated to be held next year.

At the gathering broadcasters addressed their desire for more frequencies. They also put out a request for national spectrum regulators worldwide to support their cause at the upcoming international conference.

The organisers said the conference was also successful in helping shortwave broadcasters reduce interference.

Sixty organisations and 130 frequency managers took part in the Hainan gathering. The next meeting of the group will take place in Kuala Lumpur in January. [QNews]

## **LETTER TO AMATEUR RADIO COMMUNITY:**

As Expedition 12 draws to a close on board the International Space Station, a note of gratitude is due.

I would like to express my deep gratitude to the world-wide amateur radio community for your participation in this great adventure. Clearly, one of the benefits for Amateur Radio is bridging the distances between us. Through your participation, you helped realize the potential for the human exploration of space to do exactly that.

Thanks to you, over the past six months, the International Space Station has been more international than ever before. Together, we achieved many significant milestones from space, DXCC, WAC, WAS, and most importantly, 35 school contacts (as of March 21).

Special thanks go to Kenneth Ransom, N5VHO, without whose tireless efforts to coordinate our activities onboard none of this could have been achieved. Kenneth provided invaluable technical advice, as well as raising the bar as each goal was achieved.

I would also like to thank the ISS Fan Club for your enthusiastic support of ARISS. And personal thanks to Cor - PD0RKC in The Netherlands, Alain - IZ6BYY in Italy, Keith - ZS6TW in S. Africa, and Patrick - WD9EWK in Arizona for enlisting the participation of the stations we needed to meet the goals for Expedition 12.

It is with no small degree of sadness to realize that soon I will no longer be able to float to the aft part of the station, dial up our frequency pair and call "CQ", knowing that a host of friends are waiting to talk. Good luck to you all.

Thank you, again, for your participation in this greatest of all human endeavors. I look forward to listening as you continue your enthusiastic support of the International Space Station and, one day, human colonies on the Moon and Mars.

73 de NA1SS

Bill McArthur, KC5ACR

Commander, Expedition 12

International Space Station

## **WORLD AMATEUR RADIO DIRECT- ION FINDING CHAMPIONSHIPS**

The 13th WARDFC will be held from 2–17 September 2006 in Primorsko, Bulgaria. An amateur radio station with special call sign **LZ13ARDF** will be at the disposal of licensed radio amateurs during the days of the Championships.

CEPT licence is required to operate. Excursion on the day off – An excursion to Sozopol will be organized on the day off (15 September). Sozopol (30 km

apart from Primorsko) is a town with more than 27 century history and one of the best Bulgarian sea resorts. Visiting the Archaeological Museum and spending an hour or more on the beach is a must.

## **NEW FREQUENCY FOR AMATEUR RADIO MIRROR INTERNATIONAL**

The 16 metre band frequency for Amateur Radio Mirror International has changed from 17 700 to 17 695 kHz. The 41 metre band frequency of 7 205 kHz will remain unaltered as well as the repeat broadcast on Mondays at 21:00 CAT will remain on the current frequency of 3 215 kHz.

*[I find the 7205 transmission works well in PE–Ed.]*

## **SA AMSAT BUILDING PROTOTYPE FOR PAYLOAD FOR ZASAT**

SA AMSAT has started building the first prototype of its payload on the second South African Satellite code named ZASAT.

ZASAT is a project initiated and funded by the Department of Science and Technology. The department recently launched a competition to find a suitable name for the satellite but until a name is chosen the project designation is ZASAT.

(To find out more about the naming competition visit [www.amateurradio.org.za/youth.htm](http://www.amateurradio.org.za/youth.htm)).

The amateur radio payload is operating in conjunction with the University of Stellenbosch Software Defined Receiver project, as it will share the VHF receiver and UHF transmitter used by the SDR project.

SA AMSAT has designed and will build a control system to facilitate the following operations:

V/U voice transponder with an uplink in

the 2 metre band and a downlink in the 70 cm band;  
A parrot repeater (voice digipeater);  
A voice beacon.

Various other payload options were considered but due to limited real estate, available power and the short time frame, the above configuration was decided on.

Visit [www.amsatsa.org.za](http://www.amsatsa.org.za) for more information and regular updates.

## **40 & 80 METRE CONTESTS**

The annual Hamnet 40 Metre Emergency Communications Contest was run on Sunday 9 April, in the weekend during which the SARL AGM took place, and those at the AGM were on their way home..

Another event of the SARL was the first leg of the SARL 80 Metre QSO Party, which took place on Thursday 6 April. This is when members were preparing to, or had, left for the AGM and were unable to participate in contests.

This has happened before, and Al Akers, ZS2U, will take up the matter with the League at the AGM to try to arrange a different weekend in the future.

Incidentally, our SARL AGM was always originally held over the Easter weekend, which gave us all plenty time for chatting, and there were usually also items – such as a picnic or a visit to some place or other – on the Sunday.

However, after Headquarters moved to Johannesburg the AGM was changed to an ordinary weekend, the idea put forward was that accommodation would be cheaper outside official school holiday periods. There were, of course, nothing except the Friday evening do and the AGM and dinner on Saturday.

The present one, in Durban, falls in the school holiday period. Perhaps we

should think of going back to the Easter weekend in future and we can enjoy ham radio as it should be enjoyed!

## **SARL WORKS CLOSER WITH STANSA COMMITTEE**

The SARL was represented at the STANSA TC74 committee meeting held recently. The committee discusses communication technology standards and makes recommendations for acceptance and publication of the standards by the SABS.

The SARL is now also represented on the Powerline Communication Working Group, which is chaired by Teddy Naidoo of Johannesburg City Power.

In a discussion with Johannesburg City Power it appears that the authority has awarded contracts for electricity metering using PLC. It is however not clear what system will be deployed. There appears to be a disagreement between City Power and the Electricity metering group as to the final system to be used.

Some systems pose no threat to communication while others are a concern. The SARL will meet with City Power soon to the establish the facts.

In a related PLC news item received from Germany this week, the Durban City Engineer announced that the Metro would start offering low cost broadband internet connections to its citizens using its fibre cable reticulation and by introducing PLC.

Contact has already been made with the Durban Electricity Department to establish the facts. The Tshwane Metro is mum about its PLC pilot at Rooiwal. It was planned for switch-on during January but even until some weeks ago, the Engineer in charge said they were still working on the installation. 📍

To those celebrating special days (23 Apl to 20 May) we hope you'll

# Have a Good Day!



... on your birthdays



## April

23 George Bowes ZS2QN  
27 Tom Wilm, ZS2BBG  
28 Chris Scarr ZS2AAW  
29 John Hugo ZS2J  
30 Louis Jordaan ZR2J

**New Callsigns:** Martin Ras ZR2MR has updated to ZS2MR. while Glen Cummings has gone from ZR2GV to ZS2GV.

Congratulations, you bods.

## May

1 Marge Weller, ZS2OB  
4 Chum Rhodes ZS2VU  
6 Herby Luck ZR2LH  
7 Rouhe Danielson, XYL of Henry ZR2HPD  
12 Chris du Plessis ZS2BST  
16 Dot Plumridge, XYL of Vic ZS2VP  
16 Lynne Thomas  
19 Johannes Pieterse, ZR2JLP  
20 Marjorie Forsyth, XYL of Dudley ZS2AW

**On Holiday:** After the return of yours truly and Missus from the Cape, your printer Ashley Goosen ZR2AG and Janet went off on a ten-day sprint. As a result, this issue of QSX has had to be prepared and printed a couple of weeks in advance.

**Passed the Test:** Al tells us that no fewer than eight bods passed the recent transceiver operating test at the QTH of Bill Hodges ZS2ABZ. In due course they should be able to get their tickets.

... on your anniversaries

## April

29 Hanni ZR2JB and Gerhard Baum ZS2UM

**Contest Certificates:** Congratulations to the following chaps for having received certificates at the last meeting:

ZS2EZ PEARS VHF/UHF Contest – Division 2 single-operator category on 70MHz,

Also a certificate for the longest distance (11km)

ZR2GLP – PEARS VHF/UHF Contest – longest distance on 70MHz (11km)

ZS2ACP – not present, so he was not able to receive his certificate. Better luck next time! 🍀

## May

2 Shirley and Gus Winter ZS2MC  
18 Diane and Herby Luck ZR2LH

## Your Society's Committee

Chairman.....	Al Akers ZS2U	360-2983	makers@firestone.co.za
Vice Chair, Awards.....	Rory Norton ZS2BL	585-9330	rory@commco.co.za
Secretary .....	Chris Scarr ZS2AAW	368-1344	cvscarr@intekom.co.za
Treasurer; Assets Control.....	Clive Fife ZS2RT	367-3203	cfife@absamail.co.za
Repeaters, packet, .....	Chris Scarr ZS2AAW	368-1344	cvscarr@intekom.co.za
Refreshments.....	Bill Hodges ZS2ABZ	581-2580	whodges@absamail.co.za
Contests .....	Al ZS2U, Barry ZS2EZ, [+ Mike Bosch ZS2FM (581-2425)]		
Other Committee Members .....	Ewald Bouwer ZS2EHB (933-3482); Glen Cummings ZR2GV (082 411 2743)		
Social, Special Events .....	Committee		
QSX printing and info.....	Ashley Goosen ZR2AG	468-0887	ashleygoosen@xsinet.co.za
QSX Editor (ex com) .....	Garth Laaks ZS2HB	368-1101	glaaks@iafrica.com
QSX distribution (ex com).....	Trevor Scarr ZS2AE	367-1746	t&j.scarr@intekom.co.za
Technical Classes (ex com) ....	Paul Galpin ZS2PG	372-1779	galpinp@absamail.co.za
Internet Website (ex com) .....	Barry Murrell ZS2EZ	581-3561	zs2ez@axxess.co.za

## PEARS' VHF/UHF & Other Services

### REPEATERS

Town VHF .....	# 145,050/650	Cradock .....	145,050/650	Noupoort .....	431,150/438,750
Town UHF .....	# 431,050/438,650	Grahamstown .....	145,150/750	Plettenberg Bay .....	145,175/775
Brenton .....	145,175/775	Kareedouw .....	145,125/725	Uitenhage# .....	145,075/675
Cockscomb .....	145,000/600	Plettenberg Bay .....	145,075/675		
Colesberg .....	431,075/438,675	Lady's Slipper.....	145,100/700		

Most of these form the PEARS long-range 2-metre repeater system, also linked to which are East London 145,775 MHz, George 145,700, Danabaai 145,600, Stilbaai 145,750, Butterworth 145,725, King Williams Town 145,625 and Mthatha (438,725 duplex). It is further extendable to Cape Town via the WCRWG system.

# These can also be linked as required.

### OTHER SERVICES

Packet Bulletin Board (ZSØNTP) .....	144,625
Packet Rose Switch ZSØGHT-3,046101 (144,675 in/out) or 046102 (UHF out to BBS) .....	144,675
2m Beacon (ZS2VHF CW ID, FSK) (horizontally polarized, 20W ERP) .....	144,415
6m Beacon (ZS2SIX CW ID) (horizontally polarized, 25W ERP) .....	50,005
6m Simplex Link with Lady's Slipper 2m Repeater (vertically polarized) .....	51,400

## Sunday Bulletins

PEARS bulletins are transmitted on Sundays immediately after the SARL English transmission, i.e. at about 08:45, on 7098 kHz as well as the 2 metre linked network that provides coverage from Butterworth to George and up to the Free State and their environs. PEARS' 7098 or 3640 kHz transceive facilities are also remotely linked as needed. In addition, the SARL's 40m operations on 7082 or 7066 kHz or Hamnet's 7070 kHz can be remotely patched to the 2m network, in receive-only mode or with full transceive capability for interactive events.

Date	Prepare and Read on 2m Repeater Link
16 Apr	ZS2U
23	ZS2BL
30	ZS2RT
7 May	ZS2ABZ
14	ZS2AAW
21	ZS2EHB

DIARY DATES
<b>APRIL</b>
<b>20 PEARS MONTHLY MEETING</b>
26 Closing date: satellite name
<b>29 RTA at NMM UNIVERSITY</b>
<b>MAY</b>
<b>4 Wrinkly Rave</b>

\* We like being *your* Society \*