

THIS NEWSLETTER IS PUBLISHED BY THE
PORT ELIZABETH AMATEUR RADIO SOCIETY

P.O. BOX 10402
LINTON GRANGE
6015

August 1998

NOTICE OF MEETING

The monthly general meeting of the **PORT ELIZABETH AMATEUR RADIO SOCIETY** will be held on **Friday, 21 August 1998** commencing at 20:00 (8pm) in the Municipal Disaster Management Centre, Westview Drive, Mill Park, Port Elizabeth (Civil Defence Centre).

Part of the evening will be devoted to "debriefing" after the VW Rally last month, when any suggestions that you may have for improvements to the communications system or operating procedure, etc. will be welcome.

Tea, coffee and tasty biscuits will be available after the business.

Technical Evening

The next technical evening will be held on **Thursday, 27 August 1998**, starting at 20:00, in the Clubhouse (Municipal Disaster Management Centre).

Unfortunately, last month's gathering came to naught because the "main players" (to use one of the current buzzwords) could not attend. However, Des Herselman ZR2DH has promised to do what we said he would do last month, i.e. continue his most interesting discussion on the stuff that he knocks together in his spare time.

Among other things, he will display a combined capacitance/inductance meter that uses some of the principles employed in the frequency counter that he has previously demonstrated..

See you there?



Wrinkly Ravers

The next luncheon will take place on **Tuesday, 18 August**. The venue this time will be **Mike's Kitchen, on The Bridge, in the Greenacres complex**.

Get there at about 12:30 pm and have a great time with the other old codgers.

The last get-together, at the coffee shop in Humeral, was very enjoyable, as is to be expected with such an illustrious company of friends. It was quite inexpensive too, Tuesdays being pensioners' day.

By the way, one will soon again be able to have lunches at the Zwartkops Yacht Club, and it is on the cards that the September rave will be held there, but watch this space for up-to-the-minute announcements at the time approaches. 📢



A Word

From the Chair

*W*e seem to have been through a tough time recently with numerous silent keys, and other members losing loved ones. I sincerely hope that the trend has ceased. To all of these families I would like to express our condolences once more.

It is good to notice the new callsigns becoming more commonplace on the repeaters. Well done to those recently licensed amateurs for taking the bull by the horns and getting on the air. It is good to see the fruits of the RAE classes.

And to Bryan with his CW classes, the effort continues for those interested in achieving a full licence. May you persevere – I'm sure it takes a lot of self-discipline. Thanks to you, Bryan.

Finally, with the VW Rally behind us for yet another year, please don't forget to voice your opinion at the next general meeting as regards things that can be improved. The points raised at the feedback session after last year's event helped considerably in the planning this year. Many thanks to all those that helped to make the rally such a success.

73,

Chris, **ZS2AAW**

General Meeting

At the general meeting held on Wednesday, 22 July, we had a most interesting talk by Mr Gilmer, head of the PE Municipal Disaster Management Department. It was certainly an eye-opener to hear of all the problems they have to deal with.

One of the problems is that the department has only two trained staff members. Mr Gilmer said that, during a major disaster, they would need to rely heavily on voluntary help and us hams would be the ones he would have to rely on for communications.

I was rather embarrassed that, of the over two hundred hams staying in the PE, Uitenhage, Despatch area, only nine saw fit to attend this meeting. I only hope that, with their staff complement of two, Mr Gilmer thought that nine was good.

VW Rally

This event, no doubt the best Hamnet/ECARES exercise we have, went off very well and it was gratifying to see some 37% of hams involved were Hamnet/ECARES members.

New Member

We welcome Chris ZS1M from Mossel Bay, who has joined ECARES. It is especially good to have someone in Mossel Bay as well.

73

Al Akers ZS2U

Provincial Director,

Hamnet East Cape/ECARES

MORSEWORD PUZZLE

Solve the clues and insert the morse code elements (dots and dashes) for the answers into the relevant spaces. We've done 9 down for you (hist).

The solution will be published in next month's issue of QSX-PE.

Across

- 1 Platform
- 2 Filch
- 3 Women's
- 4 Flame
- 5 Male deer
- 6 Holy man
- 7 African battle group
- 8 Moves
- 9 Scot's garment
- 10 Sight

Down

- 1 Joint
- 2 Skin
- 3 ZS2SZ
- 4 Very big
- 5 Genuine
- 6 Blend
- 7 Cooker
- 8 Acts
- 9 Listen
- 10 Bathe

	1	2	3	4	5	6	7	8	9	10
1									•	
2									•	
3									•	
4									•	
5									•	
6									•	
7									•	
8									•	
9									•	
10									—	

Acknowledgements to Amateur Radio, June 1990 - Audrey Ryan © 1990

MINUTES OF THE MONTHLY GENERAL MEETING OF THE PORT ELIZABETH AMATEUR RADIO SOCIETY, HELD AT THE MUNICIPAL DISASTER CENTRE, MILL PARK, PORT ELIZABETH ON WEDNESDAY, 15 JULY 1998

Present & Apologies : As per the register.

Opening : Chris ZS2AAW opened the meeting and welcomed all. He apologised for the amount of time the VW rally would take up in the meeting.

Minutes of the previous meeting : Acceptance proposed by Gus ZS2MC and seconded by Garth ZS2HB.

Matters arising : None.

Finance : Clive ZS2RT was not available for comment but the meeting could rest assured that our finances are sound.

Correspondence : None at present due to the Rally taking priority.

General :

1. The Uitenhage and Town repeaters can now be linked into the system; the equipment has been installed .
2. Wrinkly Ravers will meet on 21 July 1998. Trevor Scarr ZS2AE would make a list of attendees for Ken.
3. Neil ZR2NT indicated that he might be willing to take over the library.
4. A proposal by Mike Bosch ZS2FM for a new, simplified national VHF and UHF contest was read out. It was proposed that the matter should be pursued further by Garth ZS2HB together with Mike and Al ZS2U.

Closure : The Chairman closed the business section of the meeting at 20:20 . A lengthy VW rally discussion followed to finalise the arrangements for the event. Tea and biscuits were provided thereafter.

- A slow morse student recently told his wife: "I doubt whether I'm ever going to master CW." His XYL chided him, saying: "You must be more positive, honey!" Whereupon the OM corrected himself with: "OK, I *know* I'm not going to master CW!"

RADIO & THE TITANIC

BY *WB2IXS

After reading about the *Titanic* in the June issue of QST, I found ZS9BD found the following article in QST for May 1966, which provides further insight into the tragedy.

As the latest movie version of the *Titanic* disaster sweeps through the theatres, it is interesting to note that radio and radio operators played a major role, both positively and negatively. As you'll see, some of the radio exchanges were sadly similar to what we hear on the bands today!

As the events of that fateful evening unfolded, *Titanic* radio operator Harold Phillips received several ice warnings from ships at sea and duly posted them to the bridge. Then he came within range of Cape Race, Newfoundland (call sign MCE) and a heavy exchange of traffic followed with many social and business messages going in both directions.

He ignored several more ice warnings, even telling one operator from nearby *Californian*, "Shut up! I am working Cape Race. You are interfering." (Sound familiar?) The *Californian* operator switched off his rig in anger and went to bed.

The *Titanic* (call sign MGY) received another ice warning when they were just 25 miles from the iceberg that would sink them. Phillips acknowledged it, but didn't post the warning to the bridge.

As the ship was sinking, the *Californian* stopped dead in an ice field within visual range of the *Titanic*. Her captain, Captain Lord, did not respond to the first rocket. After seeing several more he awoke the radio operator and asked him to establish contact with whatever vessel was firing the rockets. It was too


late; by then the *Titanic* had lost its radio capability. The *Californian* tried a Morse lamp, but it was not acknowledged. Soon the rockets stopped.

For whatever reason – best left to historians to argue – the *Californian* did not go to the scene. Had the angry radio exchange not taken place, the *Californian's* operator may have remained at his post and confirmed the *Titanic's* dire circumstances.

The next closest ship was the *Carpathia*. She received the calls from the *Titanic*, but couldn't reach the area until nearly daybreak.

After the incident, with the radio operators taking their share of the blame, Guglielmo Marconi was praised for his wireless technology since it was reasoned that by virtue of hearing the SOS at some distance, the *Carpathia* was able to respond to effect a rescue.

Despite the unfortunate incident between the radio operators aboard the *Titanic* and *Californian* that night, and despite the occasional problems we hear on our bands today, we can be justifiably proud of radio's rich history of service.

Whether professional or amateur, everyone involved in the emergency communication community should take pride in their accomplishments. May we continue to serve. 

*Alan Lovitch, WB2IXS, Pompton Lakes, New Jersey.

CB SET CONVERSION FOR 40 METRES

ANDRÉ BOTES ZS2ACP

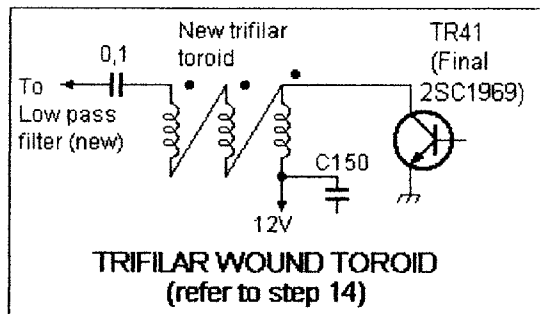
In the last three issues of QSX the conversion of a CB set to operate on several amateur bands was described. In this offering, André deals with a single-band conversion. If the couple of watts that the rig will produce on 40 Metres after conversion doesn't excite you enough, read about the Sandwich linear on page 10 that you can build right into the cabinet and get a walloping 12 Watts out!.

These instructions are relative to the PHILIPS, TELEFUNKEN STARFIRE, SBE LAND COMMAND and COBRA 140GTL makes of CB radio. Having a circuit diagram and component overlay will assist in this project. Fortunately the board is marked with an overlay and component numbering.

The installation of the single band transverter board in the CB set should produce 1–2 watts of AM and 3–4 watts of SSB at 7 MHz.

1. Locate C158 and C159 which may be found towards the upper left of the board close to L29 and TR38.
2. Unsolder the two capacitors at the soldered junction and lift the loose end of C158, leaving the other end attached to L29.
3. Remove C159 from its position and solder one end to the can of L29 (earth), the other end to the loose end of C158. The junction of the two caps is the connection for the lead carrying the 27MHz to the input of the TRANSVERTER board (second NE602).
4. The output from the transverter is connected via a lead to the base of TR38 where the two capacitors were unsoldered.
5. Remove C175 and replace with an inductor made by winding a ferrite bead with 5 turns of enamel covered copper wire.
6. Remove L30.
7. Remove C154 and replace with a 20n disc ceramic cap.
8. Make a junction from the collector of TR38 to the 20n cap.
9. Remove L31 and replace with a 1mH. inductor.
10. Remove L32 and replace with a purple toroid (Philips) wound with 5 turns of plastic covered wire (coloured Post Office telephone wire – for the older people. "SCOOBY-DOOBY").
11. Replace L33 with a wire jumper.
12. Replace C151 with 20n ceramic cap.
13. Replace L34 with a 1mH. inductor.
14. Replace L35 with a power transformer. Take three lengths of P.O. wire, twist together and wind 5 turns onto a large (12mm) purple toroid. Now connect the ends of two of the wires to the

beginning of the next as shown in the diagram. The black dots denote the start of each length of wire.



Note: All RF connections between the CB board and the transverter board must be made with thin 50 Ω CO-AX cable such as RG174 or similar. Good earth connections are imperative in all instances.


The CB sets are made for positive or negative earth and you will notice that the board earth is not connected to the case. We have found that by putting a shorting connection between the mounting screws and the board earth we eliminated earth loop feedback problems.

15. Replace C149 with a 100n ceramic cap.
16. Remove L36 and replace with a wire link.
17. Remove C148 and replace with 470 pf.
18. Remove C143 and replace with 470 pf.
19. Remove C145 and replace with 1000 pf (1n).
20. Remove L39 and C144.
21. Remove L37 and L38 and replace with T50-2 red toroids each wound with 14 turns Post Office or similar wire.
22. Remove C195.
23. Remove wire link from CB board to antenna socket and now connect socket to transverter board at point marked TO ANTENNA.
24. Connect co-ax link between point where original wire to ant. socket was removed from CB board and transverter at point marked 7MHz FROM FINAL.
25. Connect co-ax link between point on transverter board marked 27MHz RF AMP (REC) and jumper wire on CB board marked JP14.

Adjustments:

1. Before connecting the output lead from the transverter board one should ensure that the 7 MHz signal is present. This can be tested by connecting a short length of wire at the output of the board and listening for the signal on an HF receiver mounted close to the CB set.
- For maximum signal strength on 7 MHz tune the output filter (the purple trim cap) at the second NE602 located on the transverter board.
2. Connect the lead.
3. Connect a power meter to the output of the CB set and terminate in a 50 Ω dummy load.
4. Connect a frequency counter and, once you have a steady 7MHz signal, peak all the TX transformers as indicated in the CB manual, i.e. L29, L28, L27 etc. The adjustments should be made while transmitting in the AM mode to allow the carrier frequency to be measured by the frequency meter.

If instability should occur, add negative feedback firstly to TR38 and lastly to TR41. The feedback is introduced by adding a 330 Ω resistor and a 47nF capacitor in series between the collector and base of the transistor

in question. TR39 already has the capacitor and resistor fitted. Do not fit the feedback components if not required as this will greatly reduce the output power. 

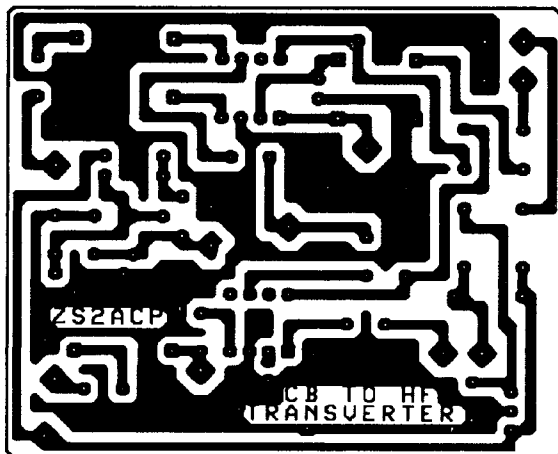
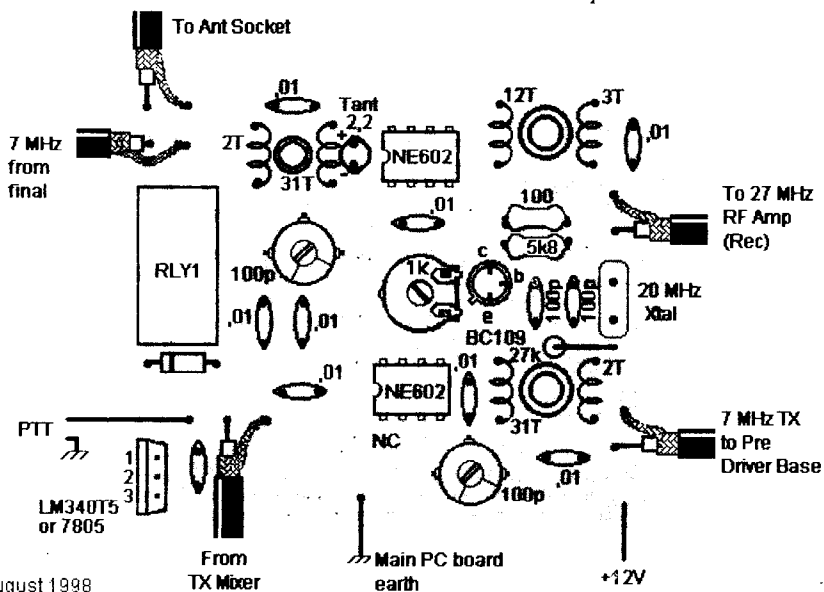


Figure 1 Printed circuit board for the CB to HF transverter. It is printed actual size.

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Figure 2 Overlay for the printed circuit board



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SANDWICH LINEAR AMPLIFIER REVISITED

A FURTHER 40 METRE CB MODIFICATION

BY ANDRÉ BOTES ZS2ACP

A few years ago, Haydn Stanley ZS6AZJ designed a natty little linear amplifier which produced up to 15 watts of RF power when adequately excited. The unit, featured in RADIO ZS, September 1993, was named the *Sandwich amplifier* because of its "double decker" construction. The design was gladly accepted by local homebrewers as, up to that time, linears had been a stumbling block.

I quickly assembled one and found that it produced 8 watts with the drive available from the QRP rig I was then using. The amplifier is broadband and will operate from 0 to 30 MHz.

As local modifications of CB to 40 Metre rigs using the standard CB finals only produced 3-4 watts, I decided to fit a *Sandwich* to a Cobra 148GTL and was pleasantly surprised when 12 watts of pure 40 Metre RF was measured.

There was sufficient space on the original *Sandwich* PC board, so three extra pads were etched to mount the low pass filter components.


All TX components after the predriver were removed from the CB board and the *Sandwich* was installed in the cleared space.

The original heatsink as per Haydn's article is replaced with a 4mm thick aluminium plate to allow mounting inside the CB set.

Heatsinking is quite adequate as the plate is bolted to the inside of the chassis at the rear, where the original final and driver were mounted.

The new plate is drilled and tapped to carry the *Sandwich* finals, standoff pillars and mounting hardware.

I have had my set up and running for 4 weeks now and, to date, have had only good reports.

■ Modified PC boards are available from Des ZR2DH at MTS Electronics, 379 Govan Mbeki Boulevard, Port Elizabeth. The telephone number is (041) 54-2911. 



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PEARStalk

CW CLASSES IN FULL SWING

Bryan Haefele ZS2BH is running slow morse classes on the linked repeater system every weekday evening, starting at 19:00. This is the opportunity for ZR and ZU operators to get their morse proficiency up to 12 wpm without pain – Bryan is using the Koch method which proved to live up to its claims when Vic ZS2SZ employed it a year or so ago.

In the past, it has been found that several candidates drop out along the way. This is a great pity because it is quite a slog for the tutor to put on the classes every evening come what may, and it is disappointing when the numbers dwindle. So to those following the course at present we say: keep at it. In a few short months you could qualify for your ZS licence.

NEW SARL VICE-PRESIDENT

Congratulations to Hans Potgieter ZS6ALJ on his election as Vice President of the SA Radio League. Apart from this appointment, Hans is the HF Manager and holds the portfolio for EMC and Legislation.

1999 SARL AGM IN DIV 6 AGAIN

The 1999 annual general meeting of the SARL is set down for the weekend 24/25 April and will be held in the Rustenburg area. It is understood that there will be various alternative attractions going on for those who do not wish to sit through the various meetings, seminars etc. or perhaps for entertainment on the Sunday if they do not have to head for home too soon after the AGM itself.

This is reminiscent of the good old days, when the AGM weekend was a family affair. There was usually a visit to some place of interest laid on for the ladies and offspring on the AGM morning, general ragchewing in the afternoon and a picnic on the Sunday – the AGM was always held over the Easter weekend, which left more time for socialising before the homeward trek on the Monday.

RAE IMPORTANT DATES

The next amateur radio examination (RAE) will take place on Thursday, 19 November 1998. The closing date for entries is 16 October. Application forms are available on the SARL website – <http://www.sarl.org.za>

There is also a tremendous amount of information on the site quite apart from the Sunday bulletins and electronic newsletters, making it well worth a visit.

HESSIAN 'FLU

While many have been battling with Boomerang Flu (just when you think you're rid of it, it comes back to you), the chaps were telling us on the band the other day about the new virus strain that's appeared on the scene – *Hessian* 'flu!. Apparently one gets it from sleeping with an old bag.

CW CONTEST ON 30 AUGUST

The date for the SARL CW contest was originally published as 29 August, which is a Saturday. However, the League has since corrected the date to *Sunday, 30 August*. The contest will run from 15:00 until 18:00 and the 20, 40 and 80 Metre bands may be used.

Recommended frequencies are: 14.030–14.060 kHz on 20 Metres, 7.010–7.035 on 40 Metres and 3.510–3.560 on 80 Metres.

More information on the rules can be found in the SARL Callbook (page 128).

The CW contest is not only for the experienced morse operator. Many newcomers try their hand and most of the older hams will be only too pleased to come down in speed if called by a "novice". Give it a go!

PRESIDENT'S NET BACK ON SUNDAYS

Just as we announced that the President's net had been moved from the Sunday slot to Wednesday evenings, the poor propagation conditions on 80 metres and high static levels prompted a decision to revert to the use of the old 40 metre frequency, 7082 kHz, at 12:00 on Sundays.

It's quite interesting to listen to the discussions, or put your own questions and suggestions to the controlling operator who, if it is not the President himself, will be a Councillor of the SARL.

VW RALLY: ANOTHER JOB WELL DONE

The fine communications service provided by PEARS members for the recent VW Algoa Rally was praised by the Rally organizers at the prize-giving function following the event. Several members attended the function.

Communications went very smoothly in spite of a problem with interference on the Saturday, when some non-participant seemed to have the PTT as well as the Tone button on his microphone jammed on. The station seems to have been mobile since the

input signal strength, heard in various parts of the town, varied as time went on.

Two temporary repeaters were installed before the rally, while the Town repeater was equipped to be linked into the system by means of DTMF tones in the same way as the other repeaters in our famed linked system. Chris Scarr ZS2AAW is to be congratulated once again on a fine job of preparing and extending the repeater network.

His helpers also put a lot of time into the overall planning. Thanks to their work, operators were provided with excellent documentation enabling them to find their marshall spots without difficulty, even to the extent of colour photographs showing the direction of travel of competitors and the exact position of the marshall point.

We must also comment on the fine operating by some of our total newcomers. A mere few days after receiving their callsigns (thanks again to the intervention of Shawn ZR2SC and the kind co-operation of a SATRA official) they were dumped in at the deep end but acquitted themselves with aplomb. Special mention must be made of Anne Smithers ZR2XT, who was despatched urgently to help at another stage and, in spite of the difficulty of being directed to a remote and dusty spot over the air, she took it all in her stride.

■ If you intend to but have not yet submitted your claim for fuel expenditure incurred in helping with the VW Rally communications, please do so without delay. Let Clive have your claim together with supporting documentation (e.g. the fuel station slip showing the amount of fuel used to top

up after the rally) so that he can close off his books

Of course, you don't *have* to claim. You can leave it for Club funds!

6 METRE QSOs SOUGHT

Terry EA8BYR on the Canary Islands is keen to establish a QSO with anyone in South Africa on 6 metres. He comes up on that band at 1500Z (17:00 SAT) every day, with his beam aimed to the RSA.

Pierre Knobel ZS2ABC works Terry on other bands quite often so, if you want more details or would like to make a sked with Terry at some other time, contact Pierre.

YOUR CALLSIGN IS UNIQUE!

Have you ever thought about that? You possess something absolutely unique! Nobody else in the world has the same callsign as you.

That being so, should we not all be rather proud of ours? I, for example, don't want to be confused with ZR2HB, ZU1HB, Z21HB, ZS6HB or any other operator, some of whom may not be as particular about their operating habits as I try to be. Similarly, I would object if, due to sloppy operating, some amateur announced his or someone else's callsign in such a way that it could be confused as 'ZS2HB'.

Remember, the law requires you to announce your *own* callsign at least once in every 'over'. You do not *have* to

quote the callsign of the station you are working, so you may say 'Over to you, Jack, from <your own callsign>'. But, you *must* give *your own* callsign *fully* and clearly.

The PMG (who controlled things at that time) approved that, in a series of *short exchanges*, it was not necessary to announce your callsign during *every* transmission, but you *must* do so at least every ten minutes. Of course, it is good practice to do so more frequently than that, if only so that other hams listening will not think you're a bunch of pirates!

LIGHTHOUSE/LIGHTSHIP WEEKEND

Ham stations will be erected in, on or at lighthouses and lightships around the world during the weekend 22/23 August. The aim is to contact as many other hams as possible, not only lighthouses or lightships. It is *not* a contest but rather an attention-getting exercise.

The following stations plan to be active in the Southern and Western cape:

- ZS1BARK Lighthouse at Cape Agulhas, southernmost tip of Africa.
- ZS1FRC Lighthouse at Cape Point.
- ZS1RON Slangkop Lighthouse.
- ZS1ACH Robben Island.
- ZS1B Green Point Lighthouse.
- ZS1TB Danger Point Lighthouse.
- ZS5HP Cooper Light, Durban.

FOR SALE * WANTED * SWOP

WANTED

- * **Rotator** for HF antenna, preferably with brake, but anything will be considered **Ralph Hall**, tel. (0431) 945-2644 (or Cellphone 082 954 0409)
- * **Tribander beam** (*not* TH3) – Neville Roebert ZS2NR, 1 Cambridge Road, King William's Town 5600 (or call on 2 Metre link)

Condolences— We regret to have to record the passing of Willie Bryson ZS2OW on 14 July after a vain struggle to recover from injuries inflicted on him in a robbery; Shirley Cockbain, XYL of Tom ZS2TC on 13 July and Rusty Lotter ZS1WQ on 21 July, both after lengthy battles with ill-health, and the mother of Colin Robertson ZS2CR on 1 August. We offer our condolences to all the respective family members.

Congratulations...

on your birthdays:

August

- 26 Vic Plumridge ZS2VP
- 27 Alan Smith ZS5AG

September

- 2 Mel Gwilt long-suffering XYL of Beavan ZS2RL
- 3 Allan Bent ZS2BBR
- 6 Gerhard Baum ZS2UM
- 7 Merle Thomas ZR2MP
- 8 Sandy Bartlett ZS2LN
- 8 Phil Hopper ZS2PP
- 9 Jack Koen ZR1JAC
- 9 Gail Mosley ZS2TM
- 10 Belinda Herselman ZR2CH
- 11 Joan Bowes XYL of ZS2QN
- 11 Jane Fife XYL of ZS2RT
- 12 Pam Hopper ZU1PAM
- 12 Jo Akers ZS2W
- 13 Dick Schönborn ZS2RS
- 14 David Grünewald ZS2DCG
- 15 Hanni Baum ZR2JB
- 16 Rietjie Staples XYL of ZS6SS
- 19 Roger Davis ZS1J
- 20 Pierre Knobel ZS2ABC
- 20 Martie vdBerg XYL of ZS2VV

Whew!

All the good ones were born in September, of course. Especially on the 26th.

on your anniversaries:

August

- 30 Elizabeth & André Oliphant ZR2BC


September

- 2 Joan ZR2ABA & Allan ZS2BO Bowles
- 3 Johanna & Petrus de Jongh ZS2NQ
- 13 Rosemary & Ossie Osborne ZS1KP
- 17 Beryl & Bryan Haefele ZS2BH

on your new callsigns: Natasha Smithies ZR2BCS, Lance le Grange ZR2WBC, Clive Hopkins ZR2CLV, Shaun Victor ZR2AAV, Margaret France ZR2BCG, Merle Thomas ZR2MP and Jason Prent ZR2BHG.



Callsign corrections: We greeted Daniel Burger as ZR2B on his birthday last month but, of course, he is **ZS2DSB**. 'Skies, Daniel! Also, in the best tradition of modern journalism, our raving reporter misrepresented the facts to us last month and we published some incorrect new callsigns. The correct ones are: Anne Smithers ZR2XT, Stuart White ZR2BBR and Jim Duck ZR2JRD. Sorry, people. You know whose butt to kick for *that!*

Nog 'n correction: The same oke told us Margaret France passed the RAE at age 77. Sheesh! How far off the mark could we *be*? Sorry Margaret! Anyone can see you couldn't be more than 

Your Society's Committee

Chairman Repeater, Packet	Chris Scarr ZS2AAW	38-1344
Vice Chairman, Social, Special Events	Dick Schönborn ZS2RS	38-5070
Secretary Repeater, Packet	Jacques van der Heide ZR2JH	73-3728
Treasurer Assets Control	Clive Fife ZS2RT	32-3203
Awards Refreshments, QSX collation	Bill Hodges ZS2ABZ	51-2580
QSX Editor	Garth Laaks ZS2HB	38-1101
Assisting QSX collation/distribution	Trevor Scarr ZS2AE	32-1746
Technical Classes, Social	Shawn Corder ZR2SC	360-7369
Librarian	Des Herselman ZR2DH	54-2911 (W)
		Cell 083 261 5402 (All Hrs)

PEARS' VHF & Other Services

REPEATERS

Town VHF	# 145,050/650	Kareedouw	† 145,125/725
Town UHF	# 431,050/438,650	Knysna	* 145,075/675
Cockscomb	145,000/600	Lady's Slipper	* 145,100/700
Cradock	145,050/650	Uitenhage	# 145,075/675
Grahamstown	* 145,150/750	Theescombe	† 145,175/775

* These form PE's long-range 2-metre repeater system, to which the East London 145,125/725 MHz repeater and the George repeater on 145,100/700 are also linked. # These can also be linked as required. † These are privately owned repeaters and are not included in the PEARS linked repeater system.

OTHER SERVICES

Packet Bulletin Board (ZS0NTP)	144,625
Packet Rose Switch ZS0GHT-3,046101 (144,675 in/out) or 046102 (UHF out to BBS)	144,675
2m Beacon (ZS2VHF CW ID) (horizontally polarized, 160W ERP)	144,410
6m Beacon (ZS2SIX CW ID) (horizontally polarized, 25W ERP)	50,005
6m Simplex Link with Lady's Slipper 2m Repeater (vertically polarized)	51,400
Wefax Relay (Meteosat)	145,350

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 East London to George and environs via the linked repeater system described above. PEARS' 7098 or 3640 kHz transceive facilities are also remotely linked as needed. In addition, the SARL's 40m transmissions on 7082 or 7066 kHz, alternatively 7070 kHz, can be remotely patched into the 2m network, either in receive-only mode or for full transceive capability for interactive events.

Date	Prepare and Read on 2m Repeater link
16 Aug	ZR2SC
23	ZS2HB
30	ZS2AAW
6 Sep	ZS2RS
13	ZR2JH
20	ZS2RT

DIARY DATES

AUGUST

18 Wrinkly Rave - Mike's Kitchen
21 PEARS Monthly Meeting
 27 Technical evening
 30 SARL CW contest

SEPTEMBER

5/6 SARL Field Day
 (as per Radio ZS)

*** We Like Being Your Society! ***