

# Zululand Amateur Radio Club News

The newsletter for the discerning Ham

June 2014

ZARC Committee

Chairman: Andrew Jansen ZS5AND

Vice Chairman: John Kramer ZS5J

Treasurer: Willie Axford ZS5WI

Secretary: Dawn Snyders ZS5ME

Ham Net: Jo Snyders ZS5PO

Editor: Jo Snyders ZS5PO

Webmaster: Andrew Jansen ZS5AND

Member: Warren Snyders ZS5WOZ

Member: Anne Griffiths ZS5FAB

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Club Repeaters

Ntumeni 145.675 MHz

Empangeni 145.700

Club Packet Digipeater/Mail-drop & APRS Digipeater

Ntumeni 144.625 (ZS5ZLB Mail, ZS5ZLB-2 Digipeat, ZS5ZLB-7 KA-Node) PBBS: ZS5AND

Club Nets

ZS5PO & ZS6AE Have A Sched On Thursdays Between 17:30 To 18:45  
On 7.175 Or 3.645 Depending on propagation  
ALL are more than welcome to join us for a "rag chew"

SARL News

08h30 - Sundays - 145.650, 7.066 MHz

NEXT ZARC MEETING

**WILL BE THE AGM**

DATE: 27<sup>th</sup> July 2014 (**Sunday**)

TIME: Meeting will take place ± 13:30, after **the annual luncheon @ 12:00**

QTH: At the QTH of ZS5ME & ZS5PO

E-Mail: [dawnjo@telkomsa.net](mailto:dawnjo@telkomsa.net) (Secretary)

Club Web site: <http://zs5zlb.zs5and.co.za/>

# Editor, Q.R.L.



Greetings & Salutations fellow members, I trust that this news letter finds you all in good health. The next club meeting will be the AGM, on **27<sup>th</sup> July 2014**. The venue will be at the home of ZS5ME & ZS5PO. The meeting will take place at **13:30**. Please make a note in your day books and diaries. The time for the Luncheon will be **12:00**, giving everybody a chance to get there after Sunday morning commitments.

**Have you bought insurance to continue enjoying your hobby yet? SARL membership IS that insurance!!!  
Is your hobby worth R1.09 per day to you? YES?! Then join the SARL, it's the RIGHT thing to do!!!**

The radical opinions, and rantings of the Editor, are not necessarily the opinions of, or supported by, the ZARC Committee, or it's members.

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## Wots Potting In The ZARC

### Birthday Greetings Go To:



**July:** Dawn, ZS5ME, on the 12<sup>th</sup>, John, ZS5J, on the 20<sup>th</sup>, Rod, ZL1RK, on the 31<sup>st</sup>  
**August:** Anne, ZS5FAB, on the 2<sup>nd</sup>, Melissa, daughter of ZS5WOZ, on the: 17<sup>th</sup>, Andrew, ZS5AND, on the 18<sup>th</sup>,  
Bridget, daughter of ZS5ME & ZS5PO, on the 20<sup>th</sup>.  
**September:** Ian, spouse of Chris, ZS6RI, on the 12<sup>th</sup>, Chris, ZS6RI, on the 17<sup>th</sup>.  
**October:** Willie, ZS5WI, on the 2<sup>nd</sup>, Mike, ZS5MB, on the 6<sup>th</sup>, Kiana, daughter of John, ZS5J, on the 31<sup>st</sup>.  
**December:** Belinda, spouse of Warren, ZS5WOZ, on the 17<sup>th</sup>.

Many happy returns to all of you, and may you be spared for many more years.  
(If your birthday wishes do not appear here, it is because you have not informed me of your birth date).

### Get Well Soon



I have not heard of anyone who has been doctor bothering lately,

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## Club Happenings

The club AGM will take place on **July 27<sup>th</sup> 2014** The Luncheon will begin at **12:00 SHARP**, and the meeting will follow at **± 13:30**. Dawn, ZS5ME suggested that we have the club annual luncheon on the same day as the AGM. She also offered to cater for the lunch at around **± R80.00** per head. She said **The venue MUST be in Mandeni**. (Where her kitchen is) The luncheon will be held first at **12:00** followed by the meeting at around **13:30**. So far 11 adults & 3 children have confirmed that they will be attending, so that will be the numbers she will be planning for. If you would like to enjoy an alcoholic drink with your lunch, please bring your own. Cool drinks & tea or coffee will be available. The menu that Dawn is envisaging follows below:

### ***STARTERS:***

Choice of: Salmon Mousse      or      Butternut soup      Served with Melba toast

### ***MAINS:***

Roast Pork                      Roast Lamb                      Cold Tongue                      Chicken Casserole

### ***Vegetables:***

Roast Potatoes      Cauliflower & Broccoli Bake      Roast Pumpkin      Green Beans      Baby corn      Rice

Gravy                      Mint Jelly                      Apple Sauce                      Green Salad

### ***DESSERT:***

Pavlova                      Lime Cheese-cake                      Chocolate Mousse  
Tea, Coffee

### ***For the kids:***

Starter: Mini Pizzas                      Beef Lasagna      and of course - Desserts

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Brian, ZS6AE & I have a sched at around **17:30 & 18:30** every **Thursday** evening on **7.175** or **3.645** depending on propagation. Anyone who feels like it, is welcome to join us for a general "rag-chew".



**Light houses** It is nearly time for **Lighthouses-on-the-air** again. Is there anyone in the club who is interested in taking part?? Please let us know as soon as possible, as arrangements need to be made for permission for St Lucia Light, or failing that, accommodation must be booked for Tugela Bluff. I also have to register us as well. It takes place **16<sup>th</sup>-17<sup>th</sup> August** this year.

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### **New ZARC Web Site**

<http://zs5zlb.zs5and.co.za/>

Andrew, ZS5AND, has found us a new server to host our website. Thank you for this Andrew. Unfortunately Andrew cannot, due to pressure of work, spend much time mucking about keeping the web pages up to date, SO, we looked around for someone to do this for us, and found a young lady, who was prepared to do the web maintenance for us. She has offered to provide her web development skills to the ZARC, free, mahala and for niks. Thank you Chantel, you are a star!!! Chantel has also indicated that she would like to write the RAE sometime.

It was decided, while we were updating all the data on the site, that we might as well revamp the site a bit, and add a few more bits and bobs of interest to the Ham fraternity. The website is still "Under Construction", and this will be ongoing as long as updating takes place from time to time. Please go in and have a look around every now and then, to see if anything of importance has been added. Remember to "book mark" the web address that you see on the bottom of the first page of the news letter, and also appearing at the beginning of this article. If you have some ideas, let me have them, and I will pass them on to Chantel, to see if it is possible to implement them!

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### **Packet**

On the packet Mail-Drop scene. The TNC is beaconing out. The coax on this set-up still has to be renewed, and the antenna moved to the east side of the tower

### **APRS**

Your path to any stations in RSA, (or anywhere in the world via the I-Gate on 144.625) will be **ZS5ZLB-2, RELAY4-4**. The I-Gate should be available between the hours of about **09:00** and **22:00**, WHEN I AM AT HOME. People in the Richards Bay/Empangeni area can get into the PMB I-Gate on 144.800.

For those of you Zululanders who have Internet, go and look on the [www.aprs.fi](http://www.aprs.fi) web site, and type your call sign into the slot at the top of the column on the right, and press enter, and see if your station comes up on the map.

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### **Repeaters**

**145.675:** This repeater was replaced after the Xmas meeting & lunch, and the old Storno is working well.

**145.700:** This repeater is now a DEAD puppy, and needs LOTS of TLC. STILL waiting for ESKOM to open up for us to get into this site.

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### **"SWAP SHOP"**



**If you have any items you want to get rid of, or if you are looking for something, Please let the Editor know and he will advertise it in the swap column for you.**

1 X **Neutec SM-1645** 16 channel 2Mtr VHF radio for sale.  
Service, user and reprogramming instruction manuals available.  
**Reason for selling: Surplus to requirements**  
Please contact Gerald, ZS5GS on: **071-143 5433**



**NB** This picture of the radio was found on the internet, and is NOT a picture taken of the actual radio that is for sale

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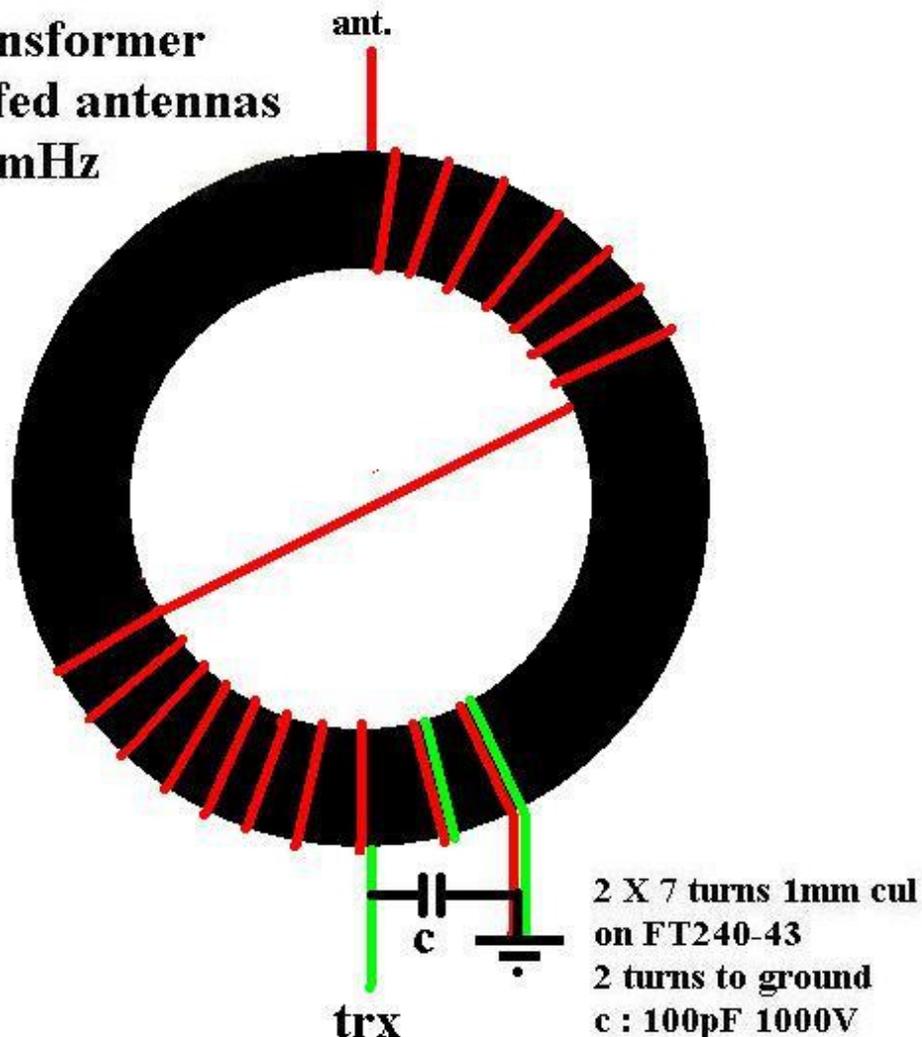


## Home Brewers Hoekie

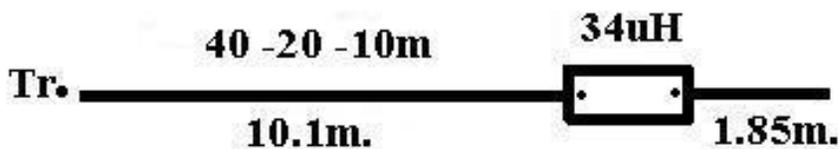
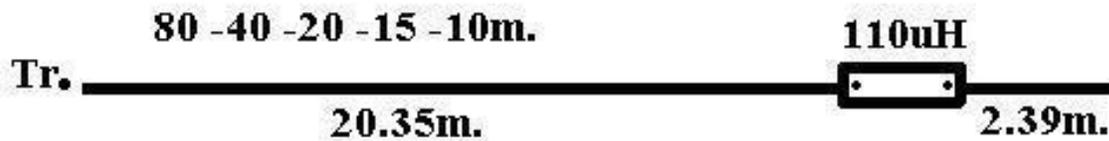
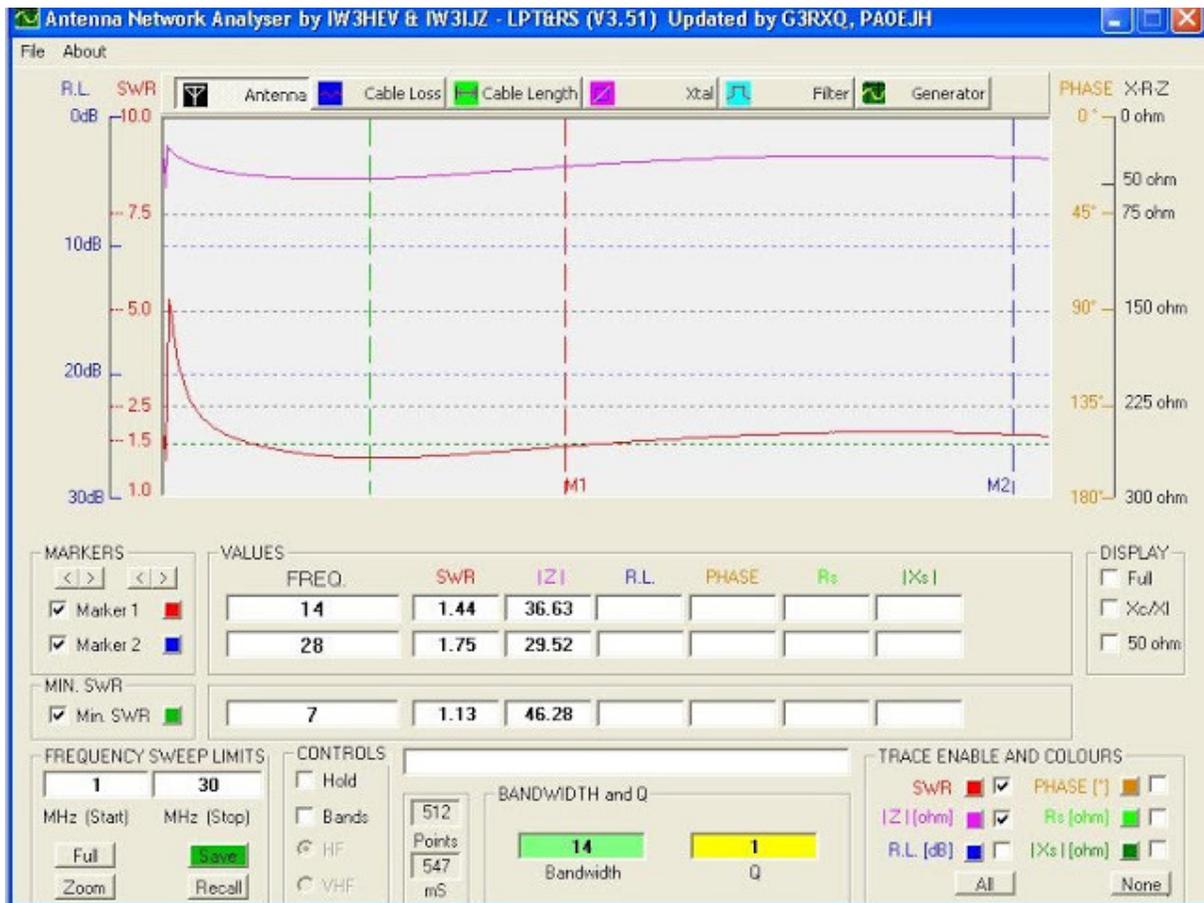
### Multiband end fed antennas 3.5 - 30mHz

This is a 200 Watt PEP step up transformer for end fed full and half wave antennas without radials, designed as a 200 Watt PEP upgrade by PA0EJH for the originally Par Electronics designed 25 Watt HF end fed multiband end fed antenna. The original design has a 27/3 turn ratio (1: 81) on a small 43 material toroid, but the larger toroid has more wire so the number of turns had to be reduced for max efficiency on 10m. The coil now has a 16/2 ratio (1: 64) For maximum performance the 2 turns to ground must be twisted . The 100-150pF capacitor gives a better match on 10m.and both windings start at the ground side of the coil .Don't try to stack toroids for more power for this will increase overall inductance. This makes it impossible to tune the high bands. The best results are obtained with a small toroid. The 3 band antenna has a length of 10.1m followed by a coil of about 34  $\mu$ H ( 90 turns 1mm enamel wire on a 19mm PVC tube) and a end piece of 1.85m, offering you a perfect vertical or horizontal antenna for fieldwork at 40 -20 and 10m. There is also a 5 band version with 20.35m wire followed by a 110 - 120 $\mu$ H coil (about 260 turns 1mm enamelled wire on a 19mm PVC tube ) and a 2.39m. end piece. This antenna works on 80 - 40 - 20 -15 and 10m.without radials and has a very low SWR combined with a low noise level. Keep in mind that every end fed / vertical needs some kind of counterpoise to push against and in this case that's the coax, so don't forget a line choke near to your transceiver.

#### **1:64 transformer for end fed antennas 3.5 - 30 mHz**



The picture shows 1 turn to many in the secondary winding (red)



**110uH coil : 260 turns 1mm. cul. 34uH coil : 90 turns 1mm. cul close wound on a 19mm pvc tube start tuning the long wire on the high bands.**



Transformer made by Tony PA3GWO on a smaller FT140-43 toroid for max. 100 Watt pep

**Update 2014-03-21**

I live in an apartment on the first floor so you can imagine my antenna problems....

My balcony however is 10m. long, so I mounted a horizontal end fed antenna without the coil, for 20-10m on the wooden window frame . Because of the capacity of the wood and the paint, overall length was reduced to aprox. 9m but provided a near 1:1 SWR on 20 and 10m.

First contact on 10m was with 5B4AHL (5-9) on Cyprus, followed by 9K2QA (5-9) in Kuwait and 4S7VG (5-8) in Sri-Lanka, despite a huge pile-up. This antenna is going to stay Hi! Hi!.



**If you would like to contribute to your Club newsletter, or to contact me for any reason,  
please use the address / Phone numbers below.**

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