



ZR6FD logo

Drukwerk ZS6RH  
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# WATTS

10-2012

Year 82 + 10m

Monthly newsletter of the Pretoria Amateur Radio Club  
Maandelikse nuusbrieff van die Pretoria Amateur Radio Klub.

✉ PARC, PO Box 12602, Die Hoewes, 0163, RSA

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Bulletins: 145,725 MHz 08:45 Sundays/Sondae  
Relays: 1.840, 3.700, 7.066, 10.135, 14.235, 51.400, 438.825, 1297 MHz  
Activated frequencies are announced prior to bulletins

Swapshop: 2m and 7.066 MHz Live on-air after bulletins  
Bulletin repeats Mondays | herhalings : Maandae 2m 19:45

## PARC AGM: Bill ZS6KO receives his certificate for 65 years of membership

ZS6P Awards Manager



see page 2 for more awards

### In this issue

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### In hierdie uitgawe

**Next fleamarkets  
and socials 2012**

**Tentative  
8 Dec.**

**Venue: PMC, Silverton**

# PARC Management team / Bestuurspan Aug. 2012 – Aug. 2013

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## AGM | Saturday 8 September 2012 | AJV

We were honoured by a very large attendance and amongst the usual agenda items a special mention and recognition was made to **old-timers of 50 years membership** or more and deserving members for their contributions to club activities:

Callsign	Name	Years	Join date
<b>ZS6KO</b>	Ingleson, Bill	65	1946-11-01
<b>ZS6JW</b>	Williams, Dave	65	1946-12-30
<b>ZS6AMP</b>	Kanowitz, Harry	62	1950-??-??
<b>ZS6AIC</b>	Van der Lingen, Joe	60	1952-07-01
<b>ZS6E</b>	Luther Uys	59	1953-11-12?
<b>ZS6AIK</b>	Meyer, Hansie	52	1959-11-30
<b>ZS6BMF</b>	Sterling, Paul	50	1962-07-01

Notes: Luther Uys arrived in Pretoria in 1951 and is now 95. He was ZS4E and first appeared in an attendance register on 11-1953. Harry Kanowitz: joined when he was 16 and is now 79 and first appeared as ZS6AMP in an attendance register at the AGM in 1954 - before that he was ZSLPVP

### 2011 Awards to be presented in 2012

Pretoria Ham Spirit Award - Fritz Sutherland ZS6SF

Fritz came to the PARC like a fresh breeze with sound advice and an inner calmness that was much needed at the time. Fritz re-initiated the RAE training at the club and got it off the ground.

ZS6BLY Trofee - **Wynand van Wyk ZS6ARF** - Vir sy uitstekende tegniese praatjie oor versterkers.

Sonny-Don Practical Assistance Trophy - **Vincent Harrison ZS6BTY** - Vincent joined Fritz to assist with the RAE training.

Hansie Meyer Deelname Trofee - **Pine Pienaar ZS6OB**

SARL Piet Roos Trofee - **Hans Kappetijn ZS6KR** - WATTS

Roy Alexander Rally Trophy – 2011 **Johan de Bruyn ZS6JHB** - Motorsportbestuur en 'n kranige worsbraaier by die vlooiemarkte!

### Merit certificates

**Craig Symington ZS6RH** for repeater maintenance and development.

**Johan Lehman ZS6JPL** for providing the Echolink and IRLP facilities on the club repeater

## Birthdays Verjaarsdae

Oct



- 01 Evan ZS6ELI
- 02 Hans-Peter ZS6AJS
- 02 Andre ZS6BRC
- 03 Poppie ZS6BCP, lv van Hansie ZS6AIK
- 06 Danny ZS6AW
- 09 Ed ZS6UT
- 10 Harry ZS6AMP
- 10 Roy ZS6MI
- 13 Bill ZS6KO ( 85 )
- 14 Iza ZR6IZA
- 14 Gary ZR6TB, son of Selma and Joe ZS6TB
- 15 Caleb, son of Phil ZS6PHL and Craig ZS6RH
- 16 Hennie ZR6HWM, seun van Poppie ZS6BCP en Hansie ZS6AIK
- 20 Corlene, dogter van Poppie ZS6BCP en Hansie ZS6AIK

## Okt Anniversaries Herdenkings

- 02 Erna en Whitey ZS6JJJ ( 41 )
- 06 Poppie ZS6BCP en Hansie ZS6AIK ( 50 )

- 20 Martinho ZS6BQP
- 21 Louise, lv van Almero ZS6LDP
- 22 Marieza, dogter van Marelise en Pierre ZS6PJH
- 25 Charles ZS6CTO
- 27 Craig ZS6RH
- 27 Candie ZS6MOM sw of Jim ZS6US
- 28 Tracy, daughter of Joey and Graham ZS6GJR
- 29 Pierre, seun van Marelise en Pierre ZS6PJH
- 30 Andre ZS6GCA
- 31 Darlington, OM of Hilary ZR6HAP

## Lief en Leed | Joys and Sorrows

Pamela, sw of **Harry ZS6HRD** has passed away. Harry is deeply sorrowed and plans to go back to family in Ireland.

### PARC AGM / AJV :

**Pierre ZS6PJH was herkies as voorsitter.**

**Mag die pad vorentoe net met klein klippies geplavei wees.**

**Baie dankie dat jy jou herkiesbaar gestel het.**



## Diary | Dagboek (UTC times)

### Oct.

- 04 **SARL 80m QSO Party 17:00-20:00**
- 06-07 Oceana DX Phone Contest 08:00-08:00
- 13-14 Oceana DX CW Contest 08:00-08:00
- 13-14 Scandinavian Activity Contest 12:00-12:00
- 13 Eu Autumn Sprint 16:00-19:59
- 20-21 10-10 International Fall Contest CW 00:01-23:59
- 20-21 Worked All Germany Contest 15:00-14:59
- 27-28 CQWW SSB Contest 00:00-23:59

## Snippets | Brokkies

- **ZS6PTA** came 1<sup>st</sup> in the SARL HF CW contest.  
The combined effort of Hans **ZS6KR** and Roger **ZS6RJ** beat the Boland ARC by 10 points.  
To rub it in: ZS6KR had a 70 minute power failure in the middle of the contest!  
We came third aggregate of CW, SSB and digital contests with 399 points.  
It is doubted anyone took part in the digital part?  
Let's have more participation next time.
- **80th Anniversary of Practical Wireless Magazine - The GB80PW**  
Special Event call sign is being aired until December.
- **Be prepared for summer WX:**  
disconnect or at least short your antennas when not in use.
- **ZS6PTA** 1 Sep. Spring Fleamarket was well attended and well-stocked by a gentleman William du Plooy from Valhalla.



**AGM snaps.** Over 40 members and guests attended. **AJV kiekies.** Meer as 40 lede en gaste het bygewoon.



Hansie ZS6AIK ontvang sy sertifikaat vir 52 jaar lidmaatskap en spreek sy dankbetuiging uit gevolg deur 'n relaas van sy amateur loopbaan saam met sy geliefde Iv Poppie ZS6BCP.



Toespraak:  
Hans van den  
Groenendaal  
ZS6AKV

## ZS6RJ constructs his hexbeam and gets it up high on a Rohn mast

Here the Hexbeam is assembled and ready to go up. 54 minutes to build, including placing the loops for the wires on the spreaders. When you break it down for transporting, you leave those set up, which means you can build this beam in about 25 minutes in the field. SWR / impedance etc. is looking good, as a hexbeam should - even with the 15M element only 5 feet off the ground.



New top-fed centre post with double ferrite chokes on the post and directly below antenna working out great. Flat SWR on all 6 bands, no RFI floating around that shouldn't be, even at this height with a linear in play. It's working everything it hears. We're in business!



Gripper: This gadget safely grips 3 to 7 mm dia rope of all types, or steel cable, plastic covered or bare. Maybe someone knows of a similar product available here more cheaply? I haven't found anything.



## Processor pioneer Victor Poor dies at 79

condensed from PCs & Chips, 20th August 2012

Victor Poor played a pivotal role in the development of Intel's early architectures that went on to dominate modern computing and is a legend in ham radio circles. Poor, along with fellow radio enthusiast and student Harry Pyle, designed what became Intel's 4004 chip and also played a key role in working with Intel on the 8008 chip, the world's first 8-bit microprocessor.

Born in 1933, Poor showed an early interest in technology, describing himself as a "natural-born nerd", who lived for hamradio. After World War II he worked on the first Univac systems and the Packard Bell 250 computer. In 1959 he started what became Fredrick Electronics - basically a radio and telecommunications engineering shop, working on military and commercial communications and building some of the first reliable telex systems capable of transmitting images and sound.

Inspired by his ham radio systems, He developed a machine to convert teletype into Morse code and sold huge numbers of machines that could cross-convert either, eventually achieving speeds of 300 wpm.

After selling the company, Poor turned his mind to integrated circuitry, and joined Computer Terminal Corporation (CTC), a startup by two NASA engineers. The company pitched Intel and Texas Instruments to build his 4004 processor design and used it in a range of teletype machines. Poor also worked with Intel on the next generation of processors, which became the 8008 line. CTC was renamed Datapoint and developed its own processing systems under Poor's guidance.

He retired in 1984, saying the company had got too big and he wasn't having fun anymore.

After stepping down from Datapoint, he and his family spent much of their time sailing in the US, Mexico and Europe. While on board he developed a communication system that married amateur radio stations transmissions and messaging servers to allow a basic email, graphics, and data transmission, which is still used by over 100,000 hams today.

## Commodore founder Jack Tramiel dies at 83

Auschwitz survivor who built best-selling PC

The founder of Commodore, one of the driving forces in the early history of the personal computers was born in 1928 as Jacek Trzmiel to a Jewish family in Poland, emigrated to the US after WWII and joined the army before setting up his own business, Commodore Business Machines, selling typewriters. The firm switched to making pocket calculators and ended up buying its own chip business, MOS, to provide its parts, before making an early move into the personal computer market. Commodore reportedly turned down an offer from Steve Jobs to build the Apple II and produced the Commodore PET (Personal Electronic Transactor), in 1977. The PET featured a 1MHz MOS processor, between four and eight kilobytes of RAM, and had a built-in monochrome monitor with an integral cassette player to load software. Later versions included a green-screen monitor, integral disc drives, and a full-sized keyboard. The PET proved popular, and was followed up by the VIC-20 systems, the first PC to sell more than a million units, and the Commodore 64 (C64), which was the bestselling PC of its era.

In the mid-1980s, the C64 was the dominant personal computer in the industry, outselling IBM, Apple, and other contenders. It developed a huge following and was one of the first computers to be sold by retail chains. An estimated 17 million units were eventually sold. The C64 was much loved, particularly by the gaming community for its ability to handle relatively complex graphics with ease. It proved so popular that a new version, designed to look like the original, is now being sold.


In 1984, Tramiel was forced out of the company he founded. Later that year he bought Atari's struggling computer division and began shipping new systems, including the Atari ST, its first 16-bit computer. and went on to produce PC clones for the general market, making a foray into the gaming sector with the Atari Lynx and Jaguar brands. Eventually he sold out to Atari Inc. in 1996.

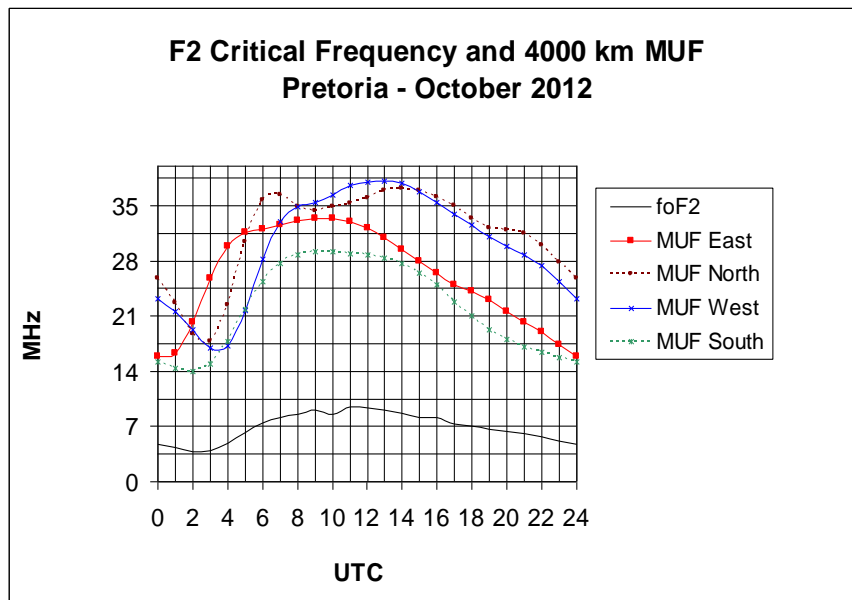
## Intel builds 'can't be built' working digital RF transceiver chip

[http://www.reghardware.com/2012/09/13/idf\\_2012\\_intel\\_builds\\_digital\\_rf\\_chip/](http://www.reghardware.com/2012/09/13/idf_2012_intel_builds_digital_rf_chip/)

13th September 2012

Intel has developed a truly digital radio chip, after a ten-year research project, capable of delivering Wi-Fi. Still at the experimental stage: it can only handle 2.4GHz 802.11g, not 802.11n or 5GHz operation, but as a proof of concept it shows what can be achieved. The next stage is to integrate the radio directly into a processor die, and Intel Labs researchers have already working an experimental system-on-a-chip that combines a digital radio with a pair of Atom CPU cores, memory controller, PCI Express control and other IO. A few components still need to be rendered in analog circuitry. The new design is able to take advantage of silicon process technology in a way analog can't. Digital circuitry scales neatly as chip fabrication processes shrink. That's not the case with analog. In fact, some analog components cease to operate efficiently - or even at all - when they are reduced in size. Elements such as digital frequency synthesisers, phase modulators and ADCs, can shrink from 0.3mm<sup>2</sup> at 32nm to 0.04mm<sup>2</sup> at 14nm. Analog radio systems aren't expensive. But as more hardware needs to be connected to networks - think of tiny sensors that run for years on a battery charge, streaming data throughout that time, or of wearable devices. Put radio into the CPU, and any device that processes data can be easily and cheaply internet connected.

<p>C/O NELSPORT &amp; 801 MALMESBURY STR, WINGATE PARK, PRETORIA [S25.49.36 &amp; E28.16.07]</p> <p><b>ICOM HAMSHACK [PTA]</b> Pine ZS6OB ☎ 082 4477 823 AUTHORIZED ICOM DISTRIBUTOR</p>  <p><b>FOR ALL YOUR ICOM PRODUCTS &amp; ACCESSORIES</b> SPECIALLY MANUFACTURED VHF/UHF EX60B ANTENNA SYSTEMS FOR: EME, TROPO, MS, REPEATER &amp; SATELITE SYSTEMS</p>	<p><b>QRV Services offers the following expertise:</b></p> <ul style="list-style-type: none"><li>• General equipment and TV repairs</li><li>• Small-scale design and manufacturing</li><li>• Frequency and power calibration</li><li>• Technical writing</li><li>• 3<sup>rd</sup> Party scrutiny of projects and documents</li><li>• MFJ 259/69 Analyzer repairs and calibration</li><li>• Valuation of ham estates and their disposal</li></ul> <p><b>and products:</b></p> <ul style="list-style-type: none"><li>• Legal limit 30m and 40m dipole traps</li><li>• Linear power supply O.V. protection kits</li><li>• 30A DC switching supplies</li><li>• Nissei SWR/Power meters HF and VHF/UHF</li><li>• Connectors RF and DC</li><li>• Plug-in triple sequential industrial timer</li></ul> <p>Contact Hans at 012-333-2612 or 072-204-3991</p>
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## Long Term HF Propagation Prediction for October 2012

Courtesy

ZS6BTY

**(see also our website propagation tab)**

### DX Operating

The graph shows the 4000 km maximum useable frequency (MUF) to the East, North, West and South from Pretoria for the first hop using the F2 layer.

### Local Operating

The F2 critical frequency (foF2) is the maximum frequency that will reflect when you transmit straight up. E-layer reflection is not shown.

### London Olympics 1908 – some observations from photos:

- Women athletes did not participate in events that caused them to perspire, unless their copious clothing made this inevitable.
- Except for the opening ceremony, the public interest was slight.
- The men in one of the bicycle polo teams wore bow ties.



### London Olympics 2012 - Some serious commentator slip-ups:

1. Weightlifting commentator: This is Gregoriava from Bulgaria. I saw her snatch this morning during her warm up and it was amazing.
2. Dressage commentator: This is really a lovely horse and I speak from personal experience since I once mounted her mother.
3. Gymnast: I owe a lot to my parents, especially my mother and father.
4. Boxing Analyst: Sure there have been injuries and even some deaths in boxing, but none that serious.
5. Softball announcer: If history repeats itself, I should think we can expect the same thing again.
6. Basketball analyst: He dribbles a lot and the opposition doesn't like it. In fact you can see it all over their faces.
7. At the rowing medal ceremony: Ah, isn't that nice, the wife of the IOC president is hugging the cox of the British crew.
8. Soccer commentator: Julian Dicks is everywhere. It's like they've got eleven Dicks on the field.
9. Tennis commentator: One of the reasons Andy is playing so well is that, before the final round, his wife takes out his balls and kisses them... Oh my God, what have I just said?

