



# WATTS 2019-05

Year 89 + 05m

Monthly Newsletter of the Pretoria Amateur Radio Club  
Maandelikse Nuusbrieff van die Pretoria Amateur Radio Klub

✉ PARC, PO Box 73696, Lynnwood Ridge 0040, RSA

🌐 <http://www.parc.org.za>      [zs6pta@zs6pta.org.za](mailto:zs6pta@zs6pta.org.za)



**Bulletins : 145.725 MHz : Sundays from 08h45 / Sondag vanaf 08h45**

Relays: 1.840, 3.700, 7.066, 10.135, 14.235, 51.400, 438.825, 1297 MHz  
and Echolink. Activated frequencies are announced prior to bulletins

**Swoptshop : 2m and 7.066 MHz live on-air after bulletins**

Bulletin repeats on Mondays / herhalings op Maandae : 2m 19h45



*Tydens die onlangse SARL herfs QRP kompetisie op die 20<sup>de</sup> April het Pierre Holtzhausen ZS6PJH, Fritz Sutherland ZS6SF en Vincent Harrison ZS6BTY vanaf Fort Schanskop gewerk. Hier ontspan hulle in die voormiddag voordat die kompetisie 'n aanvang neem. Meer op bladsy 9.*

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## Club Meetings / Klub Vergaderings

### Club Committee Meeting :

**The next Committee Meeting will be on Tuesday, the 14<sup>th</sup> of May 2019 from 18h30 at Pretoria Old Motor Club.**

## PARC Committee Members : 2018 – 2019 / PARK Komiteelede : 2018 - 2019

Name & Callsign	Portfolio/s	Email Address	Tel No	Mobile No
Louis de Wet ZS6SK	Chairman, Watts, Club History	<a href="mailto:louis.zs6sk@gmail.com">louis.zs6sk@gmail.com</a>	012-349-1044	072-140-9893
Graham Reid ZS6GJR	Vice Chairman, Treasurer, Website	<a href="mailto:greid@wol.co.za">greid@wol.co.za</a>	012-667-2720	083-701-0511
Etienne Naude ZS6EFN	SARL Liaison, Bulletin Coordinator	<a href="mailto:etienne@afgrid.com">etienne@afgrid.com</a>	012-661-6745	082-553-0542
Irene Myburgh ZS6IEA	Club Secretary	<a href="mailto:irene@srsa.gov.za">irene@srsa.gov.za</a>	012-304-5109	082-462-6001
Johan de Bruyn ZS6JHB	Rallies, Repeaters & Membership	<a href="mailto:zs6jhb@gmail.com">zs6jhb@gmail.com</a>	012-803-9418	079-333-4107
John Minter ZS6LED	Technical & RAF Training	<a href="mailto:john.minter.za@gmail.com">john.minter.za@gmail.com</a>	012-349-0019	083-291-5422

## PARC Co-opted Members : 2018 – 2019 / PARK Ge-koopteerde Lede : 2018 - 2019

Name & Callsign	Portfolio/s	Email Address	Tel No	Mobile No
Alméro Du Pisani ZS6LDP	Flea-markets	<a href="mailto:almero.dupisani@up.ac.za">almero.dupisani@up.ac.za</a>	012-420-3779	083-938-8955
Tony Crowder ZS6CRO	Auditor	<a href="mailto:tcrowder@telkomsa.net">tcrowder@telkomsa.net</a>	011-672-3311	
Nic Louw ZS6NWL	Youth Development	<a href="mailto:nic.louw@telkomsa.net">nic.louw@telkomsa.net</a>		083-596-1026
Whitey Joubert ZS6JJJ	Social & Competitions	<a href="mailto:zs6jjj@gmail.com">zs6jjj@gmail.com</a>	012-993-2267	072-120-4516
Pierre Holtzhausen ZS6PJH	Competitions	<a href="mailto:zs6pjh@gmail.com">zs6pjh@gmail.com</a>		082-575-5799
Pieter Myburgh ZS6PAM	Repeaters	<a href="mailto:wooden@mweb.co.za">wooden@mweb.co.za</a>		076-140-7562

## Birthdays and Anniversaries / Verjaarsdae en Huweliks Herdenkings

### Member's Birthdays May 2019 / Lede Verjaarsdae Mei 2019

03 Andries Schoombee ZS6SCH	25 Tjerk Lammers ZS6P (Erelid)
06 Lourens Erasmus ZS6KRT	26 Vitor Gouveia ZS6VG
06 Christopher Coetzee ZU6CC	30 Dave Gough DAVEP
14 Johan Momberg ZS6BPB	31 David Botha ZS6O
17 Vincent Harrison ZS6BTY	31 Gawie Basson ZS6GJJ
21 Outie Dorfling ZS6LMD	31 George Ellis ZS6GWE
24 Sybie van der Spuy (No callsign)	

#### Spouse's May 2019 / Gades Mei 2019

No Spouse's birthdays in May

#### Anniversaries May 2019 / Herdenkings Mei 2019

01 Ria and Peter Smith-Curren ZS6PJ

### Member's Birthdays June 2019 / Lede Verjaarsdae Junie 2019

07 Chris Oosthuys ZS6OC	22 Richard Peer ZS6UK
14 Attie Reynecke ZS6REY	26 Pieter Stronkhorst ZR6PSR
19 Fanus Ferreira ZS6BUH	27 Emil Böhme ZS6EGB
21 Marc Vanoverbeke ZS6ON	

#### Spouse's June 2019 / Gades Junie 2019

01 Fiona, gade van Etienne Naude ZS6EFN  
26 Ronel, gade van Dawid Jansen van Rensburg ZS6VS

#### Anniversaries June 2019 / Herdenkings Junie 2019

24 Marita and Roy Alexander ZS6MI

## Lief en Leed / Joys and Sorrows

Ons het verneem van Whitey Joubert ZS6JJJ verneem dat sy gade Erna vir retina loslatings operasies gegaan het. Ons wens Erna spoedige herstel en beide Erna en Whitey alles van die beste.

## PARC VETERANS FUNCTION ; PARK VETERANE GELEENTHEID

The next PARC veteran's tea function will be held on Saturday, the 29<sup>th</sup> of June, from 10h00 at the Adlers Restaurant, Rietfontein Pavillion, Villeria. Please see invitation on page 16. Die volgende PARK veteran tee geleentheid sal plaasvind op Saterdag, die 29ste Junie, vanaf 10h00 by die Adlers Restaurant, Rietfontein Pavillion, Villeria. Sien gerus die uitnodiging op bladsy 16.

## PARC Membership Fees / PARK Ledegelde

During the 2018 AGM, the decision was made that Club Fees would not be increased for the financial year. Club Fees therefore remain at R160 for Ordinary Members, and R60 for Pensioners and Spouse. Gedurende die 2018 AJV, die besluit is geneem dat Klub Ledegelde nie verhoog sal word nie. Dus bly die gelde op R160 vir Gewone Lede, en R60 vir Pensionarisse en Gade.

### PARC SUBS : PARK LEDEGELD : FROM / VANAF : 30-06-2018

Bank	First National Bank	<b>Ordinary Members / Gewone Lede : R160 Spouses / Pensioners : R60</b>	<b>Your call sign must appear as statement text!</b>
Branch Code	25 20 45		
Account No	546 000 426 73		
<b>Please remit your subs in time to our Treasurer, or pay per transfer into the PARC account Betaal asb. u ledegelde betyds aan ons Tesourier, of betaal per oorpasing in die PARC rekening</b>			

Please Note : If your Club fees are not paid up to date, birthday details cannot be displayed in Watts

## PARC Bulletin Roster / PARK Bulletin Rooster

PARC Bulletins are presented on Sunday mornings at approximately 08h45, after the SARL Bulletins in English and Afrikaans, from 08h15. The Bulletin Presenters for the following two months are presented below. Please do contact the applicable presenter beforehand if you wish to make a contribution to the Bulletin. PARC Bulletins are broadcast on the 2 meter repeater on 145.725 MHz, and 70 cm on 438.025 MHz. Relays are done on 7.060 MHz by Hans Kappetijn ZS6KR and on Echolink by Johan Lehman ZS6JPL. A re-broadcast of the Bulletin is done the following Monday evening at 19h45 by Hans ZS6KR.

PARK Bulletins word op Sondag oggende aangebied om 08h45, na die SARL Bulletins in Engels en Afrikaans, vanaf 08h15. The Bulletin aanbieders vir die volgende twee maande word onder aangedui. Kontak gerus die toepaslike Bulletin leser indien u 'n bydrae tot die Bulletin wil maak. PARK Bulletins word uitgesaai op die 2 meter Herhaler op 145.725 MHz, en 70cm op 438.205 MHz. Herleidings word gedoen op 7.060 MHz deur Hans Kappetijn ZS6KR, en op Echolink deur Johan Lehman ZS6JPL. 'n Heruitsending van die Bulletin geskied die opvolgende Maandag aand om 19h45 wat behartig word deur Hans ZS6KR.

### PARC Bulletin Presenters : June - September 2019

Date	Presenter	Date	Presenter
2 June 2019	Alméro Du Pisani ZS6LDP	4 August 2019	Johan de Bruyn ZS6JHB
9 June 2019	Johan de Bruyn ZS6JHB	11 August 2019	Louis de Wet ZS6SK
16 June 2019	Louis de Wet ZS6SK	18 August 2019	Etienne Naude ZS6EFN
23 June 2019	Etienne Naude ZS6EFN	25 August 2019	Alméro Du Pisani ZS6LDP
30 June 2019	Alméro Du Pisani ZS6LDP	1 September 2019	Johan de Bruyn ZS6JHB
7 July 2019	Johan de Bruyn ZS6JHB	8 September 2019	Louis de Wet ZS6SK
14 July 2019	Louis de Wet ZS6SK	15 September 2019	Etienne Naude ZS6EFN
21 July 2019	Etienne Naude ZS6EFN	22 September 2019	Alméro Du Pisani ZS6LDP
28 July 2019	Alméro Du Pisani ZS6LDP	29 September 2019	Johan de Bruyn ZS6JHB

## PARC Fleamarket Dates 2019 / PARK Snuffelmark Datums 2019

The following dates are set for PARC Flea Markets in 2019:

The volgende datums is vasgestel vir PARK Snuffelmarkte in 2019:

**3 August / 3 Augustus ; 2 November**

To book a table, please do contact: / Om 'n tafel te bespreek, kontak gerus:

[Alméro Du Pisani ZS6LDP at 083-938-8955](mailto:almero.dupisani@up.ac.za) or [almero.dupisani@up.ac.za](mailto:almero.dupisani@up.ac.za)

## Diary of Contests & Events / Dagboek van Kompetisies en Gebeure

Contests and Events - May 2019 / Kompetisies en Gebeure - Mei 2019 (UTC Times)	
<b>04 - 05</b>	<b>Antique Wireless Association of SA: Vale QSO Party; Riebeeck Valley Olive Festival</b>
04 - 05	10-10 International Spring Contest, CW: 00h01Z - 23h59Z
04 - 05	ARI International DX Contest: 12h00Z - 11h59Z
11 - 12	VOLTA WW RTTY Contest: 12h00Z - 12h00Z
13	RSGB 80m Club Championship, SSB: 19h00Z - 20h30Z
<b>18</b>	<b>May Radio Amateur Examination (RAE): 10h00 - 13h00 CAT</b>
18 - 19	His Majesty King of Spain Contest, CW: 12h00Z - 12h00Z
<b>20</b>	<b>SARL QRP Contest: 12h00 - 15h00</b>
22	RSGB 80m Club Championship, Data: 20h00Z - 20h30Z
25 - 26	CQ WW WPX Contest, CW: 00h00Z - 24h00Z
30	RSGB 80m Club Championship, CW: 19h00Z - 20h30Z
Contests and Events - June 2019 / Kompetisies en Gebeure - Junie 2019 (UTC Times)	
01 - 02	10-10 International Open Season PSK Contest: 00h01Z - 23h59Z
05	World Environmental Day
07	World Oceans Day
08	Asia-Pacific Sprint, SSB: 11h00Z - 13h00Z
08 - 09	GACW WWSA CW DX Contest: 15h00Z - 15h00Z
08 - 09	REF DDFM 6m Contest: 16h00Z - 16h00Z
10	RSGB 80m Club Championship, Data: 19h00Z - 20h30Z
<b>15</b>	<b>SARL Youth Sprint</b>
15 - 16	All Asian DX Contest, CW: 00h00Z - 24h00Z
17	World QRP Day
19	RSGB 80m Club Championship, CW: 19h00Z - 20h30Z
<b>20 - 24</b>	<b>SARL Top Band QSO Event</b>
22 - 23	Ham Radio 2019 in Friedrichshafen, Germany
22 - 23	Hi Majesty King of Spain Contest, SSB: 12h00Z - 12h00Z
27	RSGB 80m Club Championship, SSB: 19h00Z - 20h30Z
30	International Asteroid Day
More information can be obtained from the SARL website, as well as the WA7BNM contest calendar at the following website: <a href="http://hornucopia.com">http://hornucopia.com</a>	

### PARC Participation in Local Contests for 2019

The Pretoria Amateur Radio Club intends getting back with full force into the contest game during 2019. Under the leadership of Pierre Holtzhausen ZS6PJH, PARC is going to participate in all the South African Radio League contests hosted in 2019. Details of local contests are listed below:

#### South African Radio League QRP Contests:

Autumn: (NEXT UP) 20 April 2019: 12:00 to 15:00 UTC From Fort Schanskop

Winter: 20 July 2019: 12:00 to 15:00 UTC

Spring: 12 October 2019: 12:00 to 15:00 UTC

#### South African Radio League National Field Days:

Spring: 10:00 UTC on Saturday 14 September to 10:00 UTC on Sunday 15 September 2019

#### South African Radio League HF Phone, Digital & CW Contests from home:

SSB: 14:00 to 17:00 UTC on Sunday, 4 August 2019

Digital: 14:00 to 17:00 UTC on Sunday 18 August 2019

CW: 14:00 to 17:00 on Sunday 25 August 2019

For more information on contest participation, please do contact Pierre Holtzhausen ZS6PJH at [zs6pjh@gmail.com](mailto:zs6pjh@gmail.com) or 082-575-5799.

## PARC Members receive Awards at the SARL Gala Dinner

In the March Issue of Watts we reported that Hans Kappetijn ZS6KR (Honorary Member), Alméro Du Pisani ZS6LDP and Johan Lehmann ZS6JPL were to receive merit awards from the South African Radio League during their Annual General Meeting and Awards Dinner on the 13<sup>th</sup> of April 2019. The Pretoria Amateur Radio Club would hereby like to sincerely congratulate the gentlemen for their work and outstanding work and contributions to PARC, the SARL and the great hobby of Amateur Radio.

Unfortunately Alméro and Hans could not attend the Gala Dinner, but Richard Peer ZS6UK kindly accepted the awards on their behalf. At the QTH of Hans, a small ceremony was held where Richard presented the awards to them. Pictures of the presentation are shown below.



Johan Lehmann ZS6JPL receiving both the Jack Twine and the SAATI Technology Award from the President of the South African Radio League, Nico van Rensburg ZS6QL. Photograph kindly supplied by Dennis Green ZS4BS, Editor of Radio ZS.



Seen left and below is Richard Peer ZS6UK handing over the SARL awards to Alméro Du Pisani ZS6LDP (Jack Twine Award) and Hans Kappetijn ZS6KR (Honorary Member) (Willie Wilson Gold Badge and Silent Keys Memorial Trophy, CW) who could not attend the SARL awards dinner.



## Advancements in Amateur Radio Technologies: A review by Vernon Fryer ZS6AIG

For many years you could find large vacuum tube rigs taking up space in my shack. Some of the names that comes to mind are Heather Kit, Swan, Transworld and Hallicrafters. It was not until the late 70's that I received my first transistor 2m Yaesu with a power output of 10Watt FM. It was not until the late 90's that I managed to get my hands on a second hand transistor Kenwood HF rig, I still kept the old TS-850 around for some time though.

Over the last couple of days, I have managed to acquire the new Icom IC-9700 and the Icom IC-7300, the advancement of the technologies has changed my way of thinking about amateur radio, it has brought a new dimension of DX and VHF/UHF/ into my shack.



The aim of this article is share some of the features and overall experience I have gained from the IC-9700 and ease to use this SDR radio. The look and feel of the IC-9700 is very much the same of the IC-7300 but wow what a difference between receiving the weak VHF signals and voice quality is superb.

The high-level overview of the rig it was designed for the VHF/UHF weak signal operator in mind, it is an RF direct sampling receiver for 2m and 70cm. The IF receiver consists of a single, down conversion for 23cm that is between 311 - 371MHz. This design provides a quiet receiver due to DSP technology. The robust PA provides 100W on 2m, 75W on 70cm, and 10W on 23cm and protection on high SWR and temperature sensing on the finals.

The band management in addition to band specific memory channels, it allows band specific receiver and transmitter settings. For transmit, users can make adjustments to RF power, TX power Limit, Limit Power, and TX Delay by band. Basic receiver settings, like the Noise Blanker, Noise Reduction, and others can be tweaked by band with a dynamic Notch and Filter setup by band/mode. The touch 4.3 inch TFT screen and real-time spectrum display with waterfall makes it quick and easy to changes setting seamlessly.

The following are some of the key features which really make this rig very operators dream:

- All mode, tri-band transceiver covering 144, 430/440 as well as 1200MHz, build in pre-amp on 2m and 70cm.
- Supports CW/AM/SSB/SM/RTTY and D-STAR DV and DD modes
- Digital Data (DD) mode provides 128 kbps data communication
- Smooth satellite operation with normal/reverse tracking and 99 satellite channels
- Real-time, high-speed spectrum scope & waterfall display
- Dual watch operation and full-duplex operation in the satellite mode
- Supports 2 wave simultaneous reception (different band / different mode), full duplex operation.
- D-STAR Terminal and Access Point mode (RS-MS3A/W)
- Dual D-STAR receive (decodes two voice streams simultaneously)
- Full duplex operation/Dual Watch (no V/V or U/U Capability)
- Main or Sub-Band Scope (Center/Fix mode +/-500kHz Center Mode)
- Audio Scope
- CW full break-n
- 0.5ppm frequency < +/- 0.5ppm (-10°C to +60°C; 14°F to 140°F)
- Voice Recording/playback function (SD Memory Card) (I really enjoy the function)
- Ethernet Port (Internal RS-BA1 Server)
- USB audio and control connection
- DR Memories: 2,500

It has only been a couple of days since I received the IC-9700–Wow what a dream rig! The receiver hears signals I which previously had to use an external preamp to hear.. The audio is excellent both receive and transmit. I am sure there will be little things that pop up but initially this radio is a winner. Of all the VHF rigs I have used, and I have used just about every one of them, this radio delivers all my expectations.

Until next time, 73”sFirst week with the IC-9700–a dream rig! The receiver hears signals I used to use an external preamp to hear. The touch screen is intuitive. The audio is excellent both receive and transmit. I am sure there will be little things that pop up but initially this radio is a winner. Of all the VHF rigs I have used, and I have used just about every one of them, this radio delivers.

## Tydren Nuus : Johan de Bruyn ZS6JHB



Met die 2019 tydren seisoen wat binnekort afskop, kan ons weer uitsien na 'n besige program. Die Tydren Kalender is voorsien deur Johan de Bruyn, wat tydren aktiwiteite koordineer. Indien u belangstel om deel te wees van tydren radio-diens, kontak gerus vir Johan by 079-333-4107 of [zs6jhb@gmail.com](mailto:zs6jhb@gmail.com). Die voorlopige datums van die Nasionale- en Streekstydrerne word onder aangedui.

With the 2019 rally season commencing soon, we can again look forward to a busy program. The Rally Calendar was provided by Johan de Bruyn, who is the coordinator of rally activities. If you are interested in becoming part of rally radio-service, feel free to contact to contact Johan at 079-333-4107 or [zs6jhb@gmail.com](mailto:zs6jhb@gmail.com). The preliminary dates of the National- and Regional rallies are presented below.

9 March 2019	Regional Event : to be announced
26 April 2019	York Rally Sabie
28 June 2019	PMC Rally
23 August 2019	To be announced
27 September 2019	Secunda Rally
25 October 2019	Electrothread Rally





## Die herfs QRP Kompetisie : Pierre Holtzhausen ZS6PJH

Waar begin die voorbereiding vir 'n QRP kompetisie? Seker by die besluit om deel te neem. Aldan jy alleen gaan deelneem of in 'n groep. In 'n groep moet iemand besluit neem wat die algemene deelname strategie gaan wees, en ook wie kan en wil wat gaan doen, en wanneer. Gevolglik moet die mede- deelnemers oortuig word om op te daag en te doen waarop oorgekom is. Ervaring het geleer dat dit altyd beter is om ekstra toerusting saam te bring, en om aanpasbaar te wees. Daar is altyd veranderinge op die laaste oomblik. Saterdagoggend 20 April was weer 'n vroeg opstaan oggend gewees. Met 'n effense byt in die oggendlug het die weervoorspelling vir die dag egter baie goed gelyk. Geen reën met gepaardgaande weerlik en sterk winde is voorspel nie.

Teen 10h00 was ek by die hek van die Voortrekker Monument se feesterrein met my kar so vol gepak dat ek die maste (wat toe nie gebruik is nie) op die dakrak moes vasmaak. Bo by Fort Schanskop aangekom was daar nog niemand van ons span daar nie. 'n Vinnige verkenning van die terrein het bevestig dat dit nog steeds na 'n goeie plek gelyk het vir 'n veldstasie. Die Koorsboom wat 'n paar jaar gelede geplant is, het 'n mooi groot boom van ongeveer 6m hoog geword, met genoeg skadu vir ons. Ons moes slegs een keer tydens die kompetisie skuif om in die koelte te bly.

Kort hierna het Danie ZR6AGB opgedaag en gehelp om toerusting aan te dra. Na die tweede staptoggie was Vincent ZS6BTY ook daar. Teen 12h00 was ons stasie op die lug en gereed vir 40m. Die 20m opstelling het so bietjie meer aandag nodig gehad, maar was ook vroeg gereed. Fritz ZS6SF het betyds opgedaag vir die gebruiklike braai voor die kompetisie. Vanjaar moes ons ook 'n brandblusser saambring. Na 'n lekker middagete het Vincent en ek agter die mikrofoon ingeskuif en stiptelik om 14:00 (12:00 UTC) begin CQ roep. Dit was nie te lank nie of die kontakte het begin inkom. Voor ons ons oë kon uitvee het dit begin stil raak omdat die kompetisie tot 'n einde gekom het. Fritz en Danie moes na die aanvang van die kompetisie vertrek weens ander verpligtinge. Die oppak van die toerusting het redelik vining gegaan, en teen 17:45 was ons oppad uit. Baie dankie aan almal wat deelgeneem het, en veral aan dié wat aan ons kontakte gegee het.

Tot volgende keer. 73 de Pierre ZS6PJH.



Vincent ZS6BTY en Danie ZR6AGB besig met die opstelling van die veldstasie

Nuus van die Rally of South Africa: Johan de Bruyn ZS6JHB en Irene Myburgh ZS6IEA



Die Rally of South Africa, voorheen die SASOL en York tydrenne, het op 26-27 April in Sabie plaasgevind. Die tydren span onder leiding van Johan de Bruyn ZS6JHB het nie as radio amateurs diens verrig nie, maar as tydhou beamptes. Ons lede Graham ZS6GJR en Joey Reid, Pieter ZS6PAM en Irene ZS6IEA Myburgh, Willie en Annalie van Niekerk, en Corrie en Franco Visser het skouer aan die wiel gesit en diens verrig by die verskeie tydhoupunte. Pretoria Amateur Radio Klub bedank graag hiermee hierdie lede opreg vir hul tyd en onselfsugtige opoffering, al kon hulle nie as radio amateurs hul diens verrig nie. Die volgende tydren sal op 28-29 Junie plaasvind in die Brakpan/Heidelberg/Delmas omgewing. Kontak gerus vir Johan de Bruyn ZS6JHB by [zs6jhb@gmail.com](mailto:zs6jhb@gmail.com) of 079-333-4107 indien u belangstel om deel van die aksie te word.



Pieter ZS6PAM en Irene ZS6IEA



Graham ZS6GJR and Joey Reid



Willie van Niekerk en Franco Visser



Van die deelnemers moes moes ongelukkig uittree



Die dames het sterk deelgeneem

# World Corrosion Awareness Day

The World Corrosion Awareness Day, hosted in South Africa by The Corrosion Institute of Southern Africa, took place on the 24<sup>th</sup> of April at the Accolades Conference Centre, Midrand. All the representatives in corrosion, corrosion protection and prevention were present, which amongst included the Hot Dip Galvanizing Association of Southern Africa, the Thermal Spray Association of South Africa, and various other protection suppliers such as Kansai Plascon, Kaefer Surface Protection, Denso Coatings and Protection, and much more. Several speakers made excellent presentations, such as Darelle Jansen van Rensburg of Orytech (Pty) Ltd, who completed her PhD in Material Science at the School of Chemical and Metallurgical Engineering of the University of Witwatersrand. She conducted research on the corrosion of galvanized steel structures in inland and coastal regions of South Africa, as well as the performance of various corrosion prevent coatings.



Brenda Maree and Hendrick Rasebopye of the Corrosion Institute of Southern Africa



Anthony Botha and Lara Texeira of the Hot Dip Galvanizers Association of Southern Africa



Adam Wintle of the Thermal Spray Association of Southern Africa with a selection of metal coupons treated with different metal thermal spray applications



The thermal spray application of a zinc coating on corroded objects or panels such as water tanks, ships or pipelines provides a portable solution where damaged surfaces can be treated in confined spaces, or where panels or surfaces cannot be removed for re-galvanizing. Below right an example of a pipe partially covered with a protective zinc layer, while below is a demonstration of how any cleaned (usually by sandblasting) surface can be treated with a protective zinc coating, irrespective of shape or size. This type of treatment has a particular advantage in the treatment of corroded structures such as antenna towers or similar high structures.



Above: Zinc coil feeder and carrier gas setup



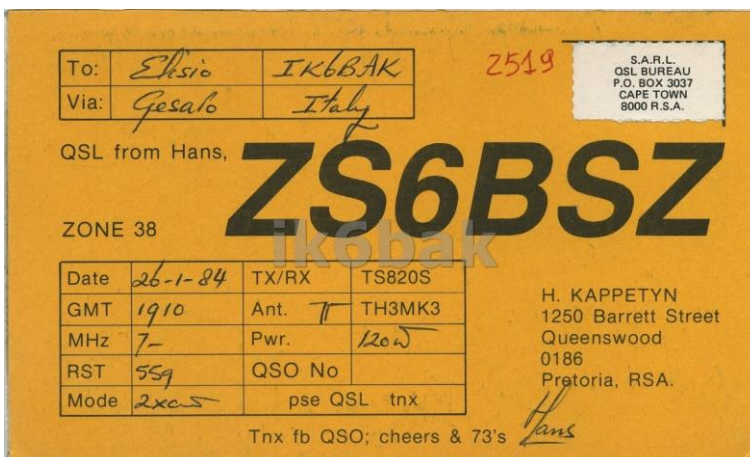
Above: application of the zinc coating through a feeder nozzle

For information on presentation during the Corrosion Awareness Day, please visit the website of the Corrosion Institute of Southern Africa at [www.corrosioninstitute.org.za](http://www.corrosioninstitute.org.za) . The website of the Hot Dip Galvanizing Association of Southern Africa provides a lot of information on the principles and theory of corrosion and corrosion protection by hot dip galvanizing: <http://www.hdgasa.org.za/technical/information-sheets/information-sheets-master-index/> .

# Music on 80m and Radio Nostalgia: Hans Kappetijn ZS6KR



Above is a photograph received of "Studio 1" belonging to Iain McAllister ZS5IE. Iain and Hans regularly play music on 3695 kHz. Left and below are scans of QSL cards belonging to Hans. The 1984 card below was sent to Hans by the Italian amateur Elisio IK6BAK, who is currently busy digitizing his collection of more than 20 000 cards he has received! Of interest is that Hans' original callsign was ZS6BSZ and that he used an old 100W Kenwood rig for more than 16 years.



## What the Doctor prescribed: a good dosage of humor 😊

An article published entitled “The Ambulance Driver’s Perspective: Top 10 most commonly misinterpreted EMS abbreviations” on the internet by Kelly Grayson (see link below for the full article) really put some sunlight on the sometimes not so happy world of EMS (Emergency Medical Services.. or Express Mail Services.. or Electro Muscle Stimulation..?). The author lists a couple for humorous differences between acronyms, in particular one who I have to mention: To a cop CID means “Criminal Investigation Division”, whereas for an EMT it would mean “Cervical Immobilization Device”. Anyway, let’s not explore the misunderstood world of acronyms and observations too far. Let me conclude, by mentioning with great sensitivity, especially to our Afrikaans readers that scientists at NASA in their wisdom launched some years ago a number of satellites aimed at monitoring Earth climate and environment, and they dubbed it the Polar Observation Environmental Satellite. Need I say more? Please enjoy the selection of acronyms below:

**10: "WNL."** Sure, everybody knows that is supposed to mean "Within Normal Limits." But if you've worked with the same kind of people I have, it means "We Never Looked."

**9: "EMT."** The US Department of Transportation says EMT means "Emergency Medical Technician," but anyone who has ever worked for a transfer service knows that EMT really stands for "Eggcrate Mattress Technician," or "Every Menial Task."

**8: "NKDA."** Normally, most healthcare professionals take that to mean "No Known Drug Allergies." But after comparing my patient's history to the reports I sometimes get from first responders, I think it actually means, "Not Known, Didn't Ask."

**7: "IABP."** Sure, you critical care medics who have strapped one of the these little babies to the floor of your rig may know it means "Intra-Aortic Balloon Pump," but all it takes is a look at the vital signs on some of the patients it's attached to, and you realize it means, "I Am Barely Perfusing."

**6: "ECMO."** While the ICU nurse may tell you that it means "Extra-Corporeal Membrane Oxygenation," given the long-term prognosis of some of these patients, it more likely means "Extra Cash-Making Opportunity," or perhaps, "Even Corpses May Oxygenate."

**5: "EMS."** Sure, we know that it means "Emergency Medical Services," but anyone who has ever worked an event standby knows that it means "Earn Money Sleeping."

**4: "LOL<sup>2</sup>."** No, it's not some new form of text-speak. It's LOL Squared, meaning "Little Old Lady, Lying On Linoleum."

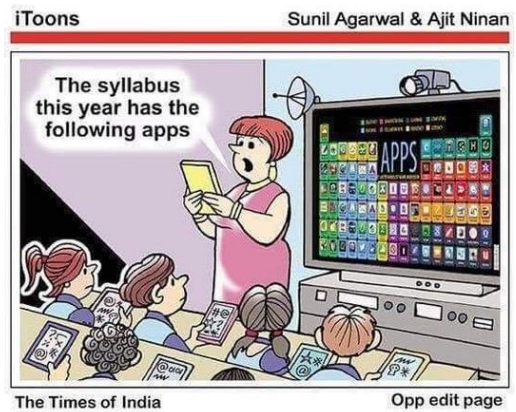
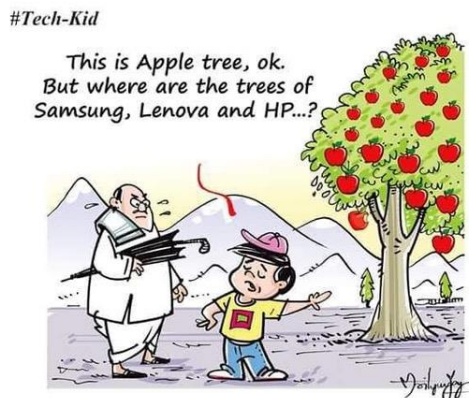
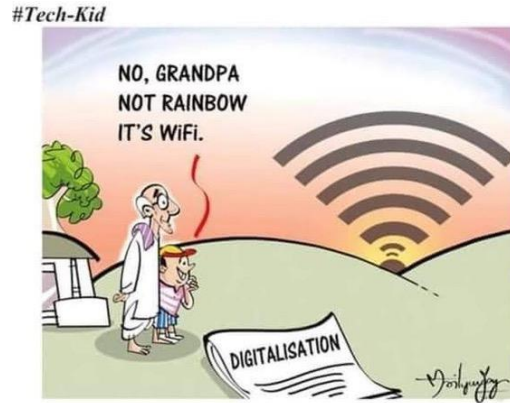
**3: "IDDM."** Taber's Medical Dictionary defines it as "Insulin Dependent Diabetes Mellitus," but judging from some of my hypoglycemic frequent flyers, it means "I Don't Do Meals."

**2: "BLS and ALS."** Sure, they're supposed to mean "Basic Life Support" and "Advanced Life Support," but judging from the way some of my colleagues treat their EMT-B partners, they mean "Basic Lifting Service" and "Ain't Lifting Sh\*t."

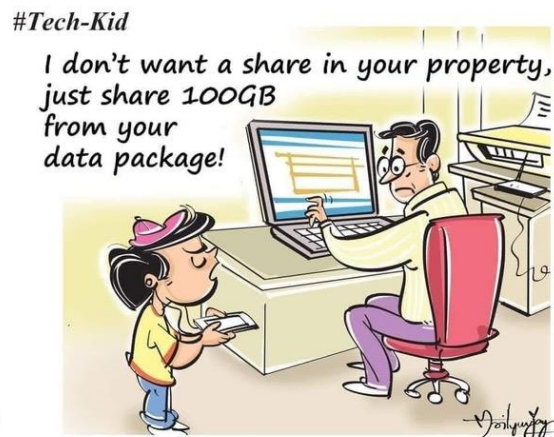
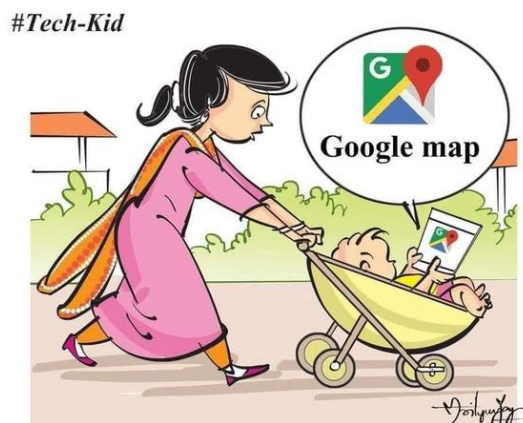
**1: "DCAP-BTLS."** EMT textbooks since 1994 have used that mnemonic to teach students what to look for in a secondary survey; "Deformities, Crepitus/Contusions, Abrasions, Punctures/Penetrations, Burns, Tenderness, Lacerations and Swelling..." But any medic who has ever served as a skill station examiner can tell you that many of the exam candidates "Didn't Comprehend Any Part of Basic Trauma Life Support."

<https://www.ems1.com/ems-humor/articles/1123064-Top-10-most-commonly-misinterpreted-EMS-abbreviations/>

What the Doctor prescribed continued: The digital age. Thank you to Hans Kappetijn ZS6KR (Honorary Member) for this contribution.



Impact of Digitalization and automation... Lollll





**PARC Veteran's Tea : PARK Veterane Tee**



All PARC veterans over 60 are invited to the annual tea event, to be held at the Adlers restaurant from 10h00 on Saturday, the 29<sup>th</sup> of June. Please do contact Irene Myburgh for more information.  
 Alle PARK veterane oor 60 word uitgenooi na die jaarlikse tee geleentheid wat gehou sal word by die Adlers restaurant vanaf 10h00 op Saterdag, die 29<sup>ste</sup> Junie. Kontak Irene Myburgh gerus vir meer inligting

The Adlers Cuisine German Family Restaurant is situated at the Rietfontein Pavilion Centre, Cnr. Frates Str. And 16<sup>th</sup> Avenue, Rietfontein, Pretoria.





## Long Term HF Propagation for May 2019: Courtesy Vincent Harrison ZS6BTY

The graph below shows the predicted F-layer Maximum Usable Frequency (MUF) for propagation from Pretoria<sup>[1]</sup> using monthly sunspot numbers from SILSO<sup>[2]</sup>.

**Local Propagation (up to 500 km):** The F or F2 critical frequency ( $f_oF_2$ ) is the MUF for short range, near vertical incidence sky-wave (NVIS) propagation.

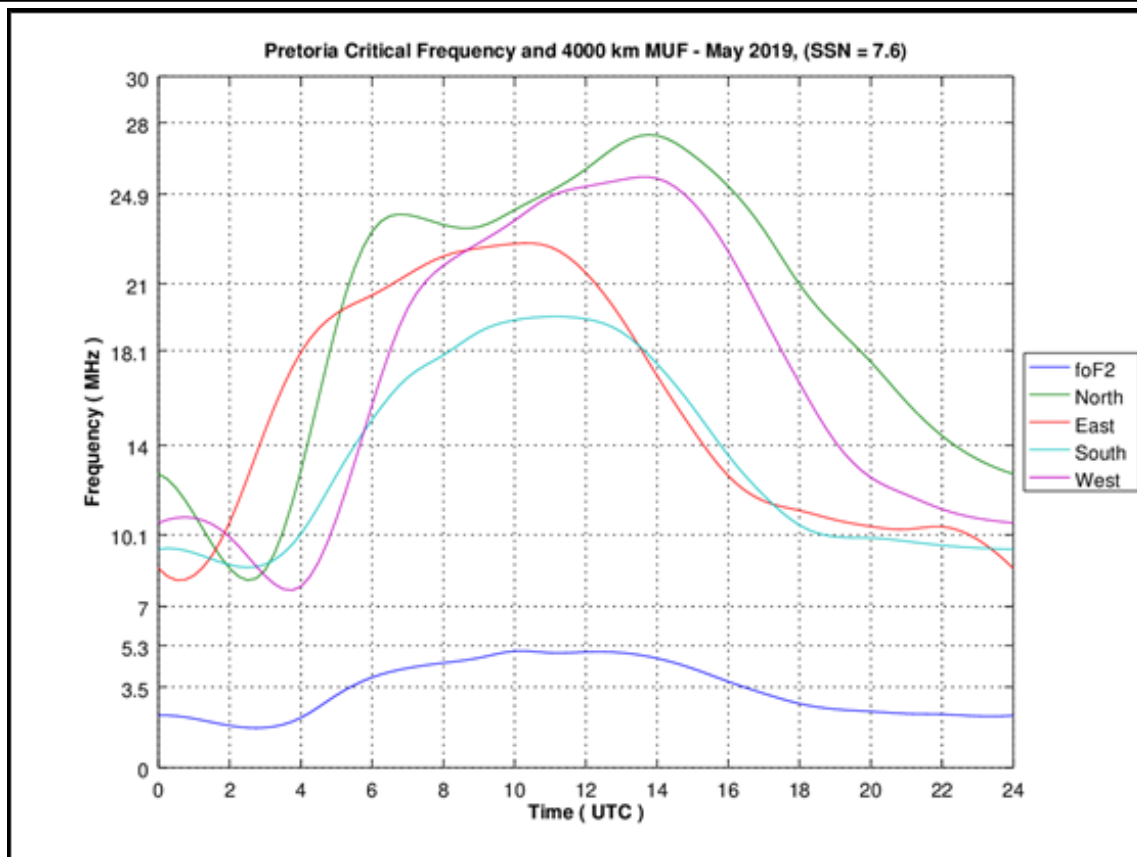
**Long Distance Propagation:** The MUF for a first hop of 4000 km in the cardinal directions is labeled North, East, South and West. They indicate the direction that propagation may be expected.

**Worldwide Propagation Maps:** <http://www.parc.org.za/index.php?page=propagation>

"Prediction is difficult, especially when dealing with the future". . . Danish Proverb. 73 Vincent, ZS6BTY

<sup>[1]</sup>FTZMUF2: A simple method of estimating the ionospheric parameters of  $f_oF_2$  and M(3000) with the aid of a home computer - Thomas Damboldt and Peter Stüßmann, Deutsche Bundespost, December 1988.

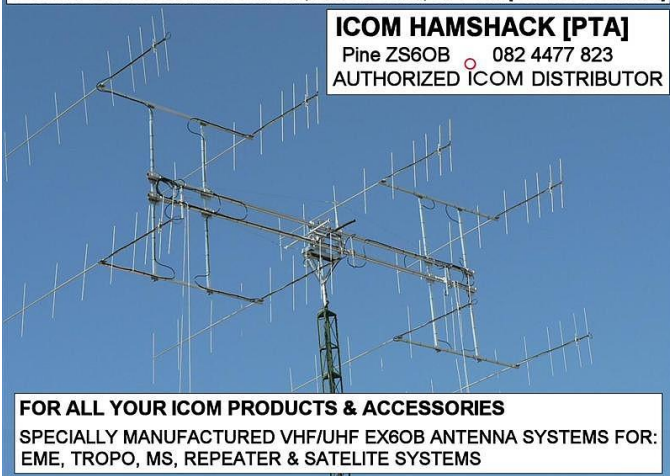
<sup>[2]</sup> Silso 12-month forecasts of the monthly sunspot number ( <http://sidc.oma.be/silso/FORECASTS/prediML.txt>)



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