



A Member of the SARL



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# Newsletter

# 115

Sept 2015

## Reflections:

I have often wondered, how many people who were around when the change from hollow state (valves) to solid state took place, were in any way worried about this vast improvement in technology which was taking place right before them.

Were there any concerns about this new miniature component that was taking the place of so many of our beloved valves or was it something to really look forward to.

I was not involved in amateur radio at all during that stage and any radios I did come into contact with were already small and compact and fitted nicely into the dash of my Alfa. Which was all I really wanted.

My first PC, an XT8088 was at the absolute prime of technology for the day and had a massive 30Mb hard

drive. What was I going to do with all this space ?

The radio's used in the organisation of brown boots, were also top of the league. The B25 was an amazing piece of technology. How well I remember that for every 5km you carried it, it got 5kg heavier.

So when I was introduced to valve technology, it was something that I remembered from my youth when my parents had an old Philips radiogram that used to blare out Springbok Radio and the sounds of Mantovani on the turntable.

I did not have a good introduction to valves when I was given my first amateur rigs, an HT37 transmitter and an SX100 receiver.

Both had to be completely restored, with the HT37 being in the worst condi-

tion.

It was only then, that I started to really learn something about valves and what they did. Completely oblivious to the HV present in these rigs, I soldiered on and did what was necessary to get them working. Replacing wire for wire from start to end point was the only way I thought of doing it.

It was only at a very much later stage of my amateur career that I developed a love for the valve rigs.

We all love technology. I am sure we all love the latest cell phones, laptops, PC's, TV's, cars etc.

Should we be at all concerned about the vulnerability of this technology compared to the old stuff ?

Best 73

DE Andy ZS6ADY

## WIKIPEDIA

### Wireless Telegraphy

Between 1886 and 1888, Heinrich Rudolf Hertz studied Maxwell's theory and validated it through experiment. He demonstrated the transmission and reception of the electromagnetic waves predicted by Maxwell, and he intentionally transmitted and received radio. Hertz changed the frequency of his radiated waves by altering the inductance or capacity of his radiating conductor or antenna, and reflected and focused the electromagnetic waves, thus demonstrating the correctness of Maxwell's electromagnetic theory of light. Famously, he saw no practical use for his discovery.

In his Ultra high frequency (UHF) experiments, Hertz transmitted and received radio waves over short distances and showed that the properties of radio waves were consistent with Maxwell's electromagnetic theory. He demonstrated that radio radiation had all the properties of waves (now called electromagnetic radiation), and discovered that the electromagnetic equations could be reformulated into a partial differential equation called the wave equation.

He demonstrated the existence of electromagnetic radiation (radio waves) in a series of experiments in Germany during the 1880s. Hertz showed methods of producing, detecting, and measuring these waves. It had been known for many years – from the predictions of Kelvin and Von Helmholtz, and confirmed by the experiments of Fedderssen – that in many cases an electric discharge is of an oscillatory character. In the years 1887-8, Lodge, Fitzgerald, and others were investigating the nature of these oscillations, and the manner in which they are guided by conducting wires, when Hertz conceived the idea of investigating the disturbances caused by such oscillatory discharges in the surrounding space.

Hertz used the damped oscillating currents in a dipole antenna, triggered by a high-voltage electrical capacitive spark discharge, as his source of radio waves. His detector in some experiments was another dipole antenna connected to a narrow spark gap, thereby creating a spark-gap transmitter. A small spark in this gap signified detection of the radio waves. When he added cylindrical reflectors behind his dipole antennas, Hertz could detect radio waves about 20 metres (22 yards) from the transmitter in his laboratory at the Karlsruhe Technical High School. He did not try to transmit further because his aim was proving electromagnetic theory, not developing wireless communication.

## Enigma Event

An international event between 12 and 25 September. Members of the ARI Fidenza will be activating special call signs IO4ENG and IQ4FE during the "Enigma Event."

The Enigma Event consists of exchanging amateur radio messages over the air encrypted with the Enigma code of WW II memory to commemorate its importance in the history of communications and encryption.

The Event Enigma is one of the "European Researchers' Night" events on 25 Sept when a number of initiatives will be organised by the European research and cultural institutions. An Amateur Radio Award (Enigma Award) is associated with this event. The amateur activity of the Enigma Award will start on 12 Sept. All details and rules are available on the official Web site at <http://www.enigma-reloaded.it>



## September

- 12 and 13 – SARL National Field Day
- 14 and 15 - Rosh Hashanah
- 16 – World Ozone Day
- 19 - Amateur Radio in Action, Pretoria
- 19 and 20 – SARL VHF/UHF Contest; SAC CW Contest
- 20 – Closing date for National Field Day logs
- 23 -Yom Kippur; Spring Equinox
- 24 –National Braai Day (National Heritage Day)
- 25 –School holiday
- 26 – Live Free Fun Walk, Bloemfontein Zoo; Namaqua West Coast Heritage Weekend, Doringbaai
- 26 and 27 - CQ WW RTTY Contest
- 27 –Closing date for VHF/UHF logs

## October

- 1 - SARL 80 metre QSO Party
- 2 – All schools close
- 3 – SARL Spring QRP Contest
- 4 – RSGB 21/28 MHz Contest
- 10 and 11 - AWA Valve QSO Party
- 12 - All schools open
- 15 – Radio Amateur Examination
- 16 to 18 – Jamboree-on-the-Air
- 17 – CQ Hou Koers; Emoya Voetspoorfees
- 24 – Crafters Market, Bloemfontein
- 24 and 25 – CQ WW DX Phone Contest

## CQ Hou Koers 2015

Goeiedag Voortrekkers en amateurradio vriende, Dis amper tyd vir CQ Hou Koers 2015! Merk julle kalenders vir Saterdag 17 Oktober.

CQ Hou Koers is Die Voortrekkers se nasionale amateurradiodag waarop kinders met ander Vorries van

regoor die land per amateurradio kan gesels. Kontakte met Scouts en oorsese stasies is ook moontlik.

Voortrekkers, tref solank reëlings met julle plaaslike radio amateurs of amateurradioklubs. Radio amateurs, bied gerus hulp aan by die plaaslike Voortrekker-ommandos. Voortrekkers kan my e-pos indien julle hulp benodig om 'n radio amateur te kontak.

Ek hoor graag van mede-amateurs en Vorries rondom idees vir CQ Hou Koers 2015.

Die belangrikste is om die jongklomp konstruktief besig te hou, by die radio's en ook tussendeur. Kinders geniet aktiewe speletjies en 'n mens kan radio met groot nut inspan by iets soos 'n radiogebaseerde skattejag of mini-"amazing race" konsep.

Bevestig asseblief deelname/ belangstelling. Dit is om my in staat te stel om 'n nuwe lys van deelnemende Voortrekker-groepe en radio amateurs saam te stel. Dankie vir julle belangstelling en hulp. Versprei asseblief hierdie boodskap aan ander belangstellende Voortrekkers en radio amateurs.

Ek beveel aan dat die betrokke volwasse Voortrekkers en radio amateurs vooraf bymekaarkom vir gesamentlike beplanning vir elke stasie. Stuur enige e-pos rondom CQ Hou Koers aan [cq@orionvoortrekkers.co.za](mailto:cq@orionvoortrekkers.co.za) Voortrekker-groete / 73  
Andries Visagie, ZS6VL, Nasionale koördineerder: CQ Hou Koers

## African DX

Tanzania. Chas, NK8O will be active in his spare time as 5H3DX from Zinga, Tanzania between 4 and 28 September. He will operate mainly CW on 20 to 6 metres ("I love to rag chew," he says, "if I am in the middle of a QSO, please wait your turn and do not interrupt"). QSL via NK8O (direct), LoTW and eQSL. Niger, 5U. On 23 April 2015, Tola, 5N1UKO was active as 5N1UKO/5U and made 31 QSOs on 15 metres SSB, operating "from his mobile setup at a construction site in Zindar, Niger." His QSL manager, NOUN, also reports that Tola - who "has not submitted any paperwork to the DXCC Desk" for this limited operation - hopes "to have a 5U call sign granted in the near future," as his work calls for him to go between Nigeria and Niger for the next twelve months.

## African Islands

IOTA frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

Cape Verde, D4. Chris, DL2MDU and Heike, DL3HD will be active as D44TUK and D44TUQ respectively from Boa Vista (AF-086), Cape Verde between 11 and 25 September. They will operate CW and digital modes on 80 to 10 metres. QSL via home calls.

St. Brandon, 3B7. Pat, 3B8FA, will be active as 3B7FA from St. Brandon (AF-015) between 29 and 31 October. Activity will be limited and on 20, 15 and 10 meters using mostly the digital modes. QSL via LoTW, or via his home call sign.

Seychelles, S7. With little over two months before

their departure, the S79C team con-firms, "plans are definite and large deposits have already been paid to the relevant departments. We have obtained all necessary permits, both to visit and operate from Coetivy" (AF-119, new one for IOTA), and all individual flights have now been booked. The whole team will meet up in Mahe, capital of the Seychelles, on 14 and 15 November and leave for Coetivy on the 16th. Plans are to have six stations active at peak times and station design and antennas are currently being discussed. Donations are gratefully accepted, because "a private airplane charter is needed to access the island, costs are terrifically high". See <http://af119new.com/> for full information, updates and latest Tweets from the team.

### History this week

The week starting 7 September 2015

1533 - Queen Elizabeth 1 was born. Her parents were Henry VIII and Anne Boleyn. Queen Elizabeth I reigned for 44 years and 127 days

1776 - The United States of America is created

1941 - The German forces start the blockade of Leningrad

1943 - German forces occupy Rome and take over the protection of the Vatican City

1943 - German paratroopers rescue Mussolini

1948 - The Democratic Peoples Republic of Korea is proclaimed (call prefix P5)

1953 - John F Kennedy marries Jacqueline Bouvier

1976 - Moe Zeding dies

1986 - Desmond Tutu becomes the Arch-bishop of Cape Town

1990 - East and West Germany and the World War II Allies sign a treaty allowing for the re-unification of Germany

1999 - The Bundestag returns to Berlin

2015 - HRH Queen Elizabeth II becomes the longest reigning British head of state (9 Sept)

2941 (SR) Bilbo finds Thorin's cell (7 Sept)

2941 (SR) the White Council meets and Sar-uman agrees to an attack on Dol Guldor (8 Sept)

2941 (SR) Dol Guldor is assaulted (10 Sept)

3001 (SR) Sauron appears in Mordor (12 Sept)

2951 (SR) Aragorn goes in to the wild (13 Sept)

3018 (SR) Gandalf has still not returned (13 Sept)

3019 (SR) Celeborn and Galadriel depart, the others set out for Rivendell (13 Sept)

### A Good Oops..

Researchers recently had a good oops and accidentally quadrupled a lithium ion battery's lifespan. The accident was leaving electrode materials in an acid bath too long; this put a titanium hydroxide coating on a core of aluminium... ("You've got your titanium hydroxide on my aluminium! You've got your aluminium in my titanium hydroxide!")

[http://www.electronicproducts.com/Power\\_Products/Batteries\\_and\\_Fuel\\_Cells/](http://www.electronicproducts.com/Power_Products/Batteries_and_Fuel_Cells/Research-ers_accidentally_quadruple_lithium_ion_battery_life_span.aspx)

Research-ers\_accidentally\_quadruple\_lithium\_ion\_battery\_life\_span.aspx

### The 1859 Solar Storm

A recap of the historic solar storm of 1859 was recently featured on [space-weather.com](http://space-weather.com). The consequences of such an event in today's world would be severe.

<http://spaceweather.com/archive.php?view=1&day=02&month=09&year=2015>

### Chess and Morse Code

Morse code and a camera were allegedly being used to cheat in a chess tournament, according to the BBC. The player was allegedly blinking out communications to a conspirator that was feeding moves into a computer and responding with moves.

<http://www.bbc.com/news/world-europe-34184940>

### Word to the Wise - FSQ

FSQ stands for Fast Simple QSO <http://www.qsl.net/zl1bpu/MFSK/FSQweb.htm>. Developed by ZL2AFP and ZL1BPU, it's a channelised communications mode designed for HF, which evolved from WSQ2. It features quick link turnaround time, and suitability for propagation conditions found on HF. It is finding application in being used for 'chat' type communications. As it is channelised, it is not particularly suited for situations where the communications frequencies are not established beforehand.

### Operating Tip

The band is open to Elbonia... I think. One way to tell is to use the reverse beacon network and choose a receiving site that is near you <http://www.reversebeacon.net/>. Hopefully, an Elbonian station is calling CQ, so that there's a chance that it can be picked up by the RBN. You can also CQ (using CW) and see if the Elbonian RBN receiver can hear you. Another way is to listen for fixed stations at known locations on particular frequencies in or near the amateur bands.

### WinBD

W9IB and K2TXB have released an update to their WinBD program. This Windows application calculates bearing and distance to a four or six character grid location. It would be useful if you were VHF/UHF Rov-ing.

<http://www.k2txb.com/WinBd.htm>

(Acknowledgement to HF Happenings 671)

## Profile of a typical AWA member

by Richard ZS6TF AWA Historian

As the AGM approached in November last year, one of our regular participants on the SSB net made a lone impassioned case to introduce a subscription to the AWA as in his words “without this it cannot survive”. His suggestion that we debate it got the “Lead balloon” treatment from members and the committee alike. The reasons for this are not immediately apparent but they may range from a superficial resistance to change to maybe deeper psychological needs that are met by membership of this undoubtedly successful association.

It is hard with such member diversity to distil common factors without a membership survey. You don't have to be eccentric to participate in AWA activities, but in mild doses it sure helps! So the following observations are the author's alone and maybe you see some of yourself within them.

What makes us tick? Well it is nice to be able to troubleshoot equipment at the component level, have room to measure, work, replace components, and enjoy the detailed descriptions of how it all works in the contemporary manuals such as produced by Heathkit, Johnson, and Collins. Even better to optimise the circuitry and produce excellent voice audio by selecting microphones and improving the frequency response of the audio chain. Valves are important because they add personality to a radio by virtue of the visual and thermal stimulation of their glowing filaments, topped only by the purple, orange, and green glow of mercury vapour rectifiers, neon stabilisers, and magic eyes respectively.

Most of us collected stamps as youngsters and there was great motivation to get the last stamp to complete the series or set. So it is with our old rigs, the natural extension being to collect all the matching accessories for example desk microphones, speakers, external VFO's, linear amplifiers, Tuners, Scopes, station controllers, RF meters and the like.

Hard core AWA members often like and collect other old things of virtue such as collector cars, motorbikes, tractors, stationary engines, old model cars trains & planes, tape recorders, audio gear, musical instruments, even ex-military vehicles with green or brown radios installed in them. Such members have a wealth of knowledge to share which is often initiated on the AWA nets.

Appreciation of aesthetics has a great part to play and front panels of our antique radios exude class compared to boxes of silicon churned out today. The coloured knobs on the T1154 are still often admired and who can deny the beauty of a Geloso VFO scale, the symmetry of Collins S line or the Vernier drives on an HRO or the early Yaesu and Kenwood transceivers. Some restorers go to great length to match the original colour when repainting the cabinet is necessary. Like those who conceal modern components inside old housings, most frequently capacitors, there is an unstoppable drive toward authenticity if not perfection. My tendency is to prefer the patinated rig that works well, bearing blemishes that speak of use rather than abuse.

In order to unlock this story one has to understand a bit about how our brains work and in particular how they react in an uncertain environment.

Our brains are hardwired through inheritance of collective experience to make modern life difficult, especially when dealing with uncertainty such as we live in in South Africa. It can be looked upon as a battle between the forebrain where rational thought occurs and the middle and rear brain where the sensory inputs and motor outputs combine to initiate automatic responses such as flee or fight when fear takes over or situational anxiety prevails. The threats that invoke these responses, which have been with us since cave man period, can be overt like a car hijack or armed robbery, or pernicious such as the perceived loss of status, camaradie, stimulus, and income once one is retired, or just background negativity generated through the media. You need to remain calm to make good choices and be yourself in the face of uncertainty. The fear responses can be subordinated by the rational if you recognise what is taking place. An easy way to do this lies in something that you enjoy doing every day.

For AWA members the four principal activities of locating, acquiring, restoring and using antique radios embodied in the AWA mission statement causes the brain to focus solely on the task at hand and quells the distraction of fear based thoughts.

When I am feeling under pressure, I take an hour or two in the workshop, behind closed doors, to focus on getting a project further forward or even a simplistic task like sorting valves and components if my demeanor is not up to accurate work. I don't worry if I don't make much progress as I am in full control of that environment and can decide to start afresh if things go awry. This enables the override of your brain's irrational tendencies and handling of uncertainty effectively. Over-participation can also be a problem. A man with 39 projects and 3 HRO's does not need another one, only just to make progress with those in hand and give the spouse a bit of attention, i.e. more is not necessarily better.

Another draw card for the AWA member is that the cost of entry is very low and a shack full of nice equipment can be put together for the price of a modern high-end transceiver. Vintage transceivers can be had for as little as R500, rarely exceed R5000 and are often donated. Effective antennas can be easily home constructed at low cost. Excellent vintage test equipment can be found at flea markets for little money.

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The shack of Henry ZS6MC took less than 2 years to create.



John ZS1WJ shack was recently completed but the equipment was collected over a much longer period.

Home brew is also alive and well and vintage modes of AM and CW are well supported. Our President Ted's topics introduced on the Saturday SSB net give rise to some amazing contributions from members who have many interests besides radio such as, energy alternatives to Escom, wilderness 4X4 travel, astronomy, and history to name a few.

Our Techie members excel in their ability to switch from hollow state to solid state technology and give freely of their advice to genuine causes, but don't bother them with things radio amateurs are expected to know. Many members use PC's, mobile devices, networking and internet technologies to further their AWA activities relating to obtaining parts, specifications, manuals, calculations, controlling their collections, music for MF's, publication, and communicating when propagation is absent.

As a result of all this AWA members tend to be more positive than either typical vanilla radio amateurs or the general populace around them, resulting from focusing the brain's attention on something that is completely stress-free with the outcome certain to generate peer participation and approval. This is an important feedback mechanism which enhances the community effect of AWA membership. The fact that it is free and by association creates an environment of mutual help and sharing of experience of refurbishment, troubleshooting, and operational techniques, and with the location and acquisition of hard to find components for a project or a specific rig from yesteryear.

This alone will sustain our activities. AWA members may find many aspects of this article that will resonate with them but, there is no such thing as a typical member profile and that is a strength of the association. To create more formality would run counter to its freshness and effectiveness. If it ain't broke, don't try to fix it!, evolution is better than revolution and what goes around comes around.

## Keeping it quiet

de Ian ZL2AIM

My wife doesn't share my hobby of amateur radio. I suppose after 13 years of hearing dits and dahs blasting out of the shack, she prefers her sanctuary of reading a book in the lounge, or anywhere in fact away from the sound of CW.

My first expedition into having QSO's with other CW minded people was not too strenuous on our marriage. I spent my evenings out in the garage which at that time was my shack. Even if I was a bit loud with my extension speaker, she would hardly have heard my key pounding or the other stations CW.

Over the years I have found that as my CW speeded up from 8 wpm to my present speed, I had to concentrate a bit harder on reading the other station. A pair of padded earphones fitted the bill. I got a nice bargain at Game Pinetown South Africa in about 2004. I can't remember the price I paid by it would translate into about \$10 NZ. They were very comfortable having them on my head for long periods and they had a nice long flexible cable on them so that I could listen to CW and still do other jobs around the desk at the same time due to the long length of flex.



On moving to New Zealand there was no way I could operate my radios from a garage. The winters were far too cold for that. I tried it for a few months, but found that my hobby was not conducive to sitting in front of a log fire and then deciding to go out to the shack and operate. The warm fire was the winner and CW was the loser.

I was lucky to have a nice big study. Bit by bit I moved a few rigs inside the house and moved the position of antennas so that the coax would get through the study window. A few weeks later a tuner would follow and slowly I was able to get the guts of my shack into the study which is great in all weather. However, soon after the move, my precious padded earphones were damaged beyond repair. I couldn't use my speakers, so I compromised by buying some cheap ear buds. These fitted nicely into my ear, but the thin "flex" would end up in a tangle. I found this frustrating when having a few rigs with these ear buds plugged in and they would end up getting tangled up in each other.

Luckily I had followed the advance of technology and had bought myself a 160GB iPod. It came with a nice pair of Apple ear buds. As I used the iPod with an external base and speakers, the ear buds became my radio earphones. They fitted my ear nicely and the white "rubber" flex was very flexible and didn't have the tendency to tangle. But over the years, they have started to deteriorate – not the ear buds themselves, but the rubber fittings that go around the bud as well as the rubber sleeve that guides the cable out of the bud. It was time to renew them.

Let's not try and be snobbish here and say that genuine Apple iPod ear buds are any better than those made by other manufacturers. That may well be so when listening to a variety of musical notes over many octaves, but I am using them for listening to the code at between 500 and 900 Hertz. Methinks that most cheapo's will do that without any problem. Two things were needed in the earphones – they had to sit comfortably in my ears for a few hours at a time, and the flex mustn't tangle up. (I had tried those retractable cables but they just were not for me.) Oh yes, being a ham, I needed them to be very cheap..... I was having a look around eBay and came across "Genuine Apple ear buds" at a price too good to resist. Well buyer beware and all that, but for US\$19.50 I could get TEN sets of these Earbuds. There was a cost of US\$17.50 for shipping but for a total of NZ\$45.38 using PayPal I have got myself 10 sets of Earbuds.

They arrived 7 days after ordering. Packed in a bubble pack bag along with some free Apple advertising stickers. Posted from CA in the US of A. Being of suspicious Irish mind, I checked them out on my various rigs. Perfect! I believe that I can now listen to CW for many more years to come without having to ask my bank manager for a loan, and at the same time, keeping my wife happy with perceived silence from my study.

Just bye the bye, when I decided to move my antennas to a new spot so that I could operate from my study, it meant that 6 cables had to be taken into the study. How could I do that without drilling holes into the walls of the house. Quite easy in fact! The windows are sliding ones and I just sawed off some MDF of the appropriate size for a window that would be open about 90 mm. I drilled a few holes into the MDF large enough to let the cables with their PL259's through the holes. I made a separate hole for the earth cables. Then it was just a simple job of cutting a piece of pine to block the window from being opened from the outside. It worked a charm!

## SSB Nets:

The SSB Nets have been going along steadily with the topics of discussion still drawing a large amount of interest and a large amount of information being gleaned from them.

It would seem that virtually ever Saturday morning there is someone ready to give their input on the varying subjects that have been covered throughout the year.

We do know of course there are many who do not want to get involved in the discussion points because they believe it takes so long to get an over in, but with anything between 20 to 25 people calling in on a regular basis, I suppose that is inevitable. The point of it is that we still manage to draw a large number of interested parties, not including those who just listen while busying themselves with other things in their shack.

Is this a feather in the cap of the AWA, I believe it is. I don't know of any other regular nets that attract such a large listener base as well as activity base. If one takes a look at figures over the past 12 years the net has been running, it would come out at an average of 17 for every Saturday it has been running. That is quite amazing !

Of course band conditions have played a role in the whole picture, because there was a time when bands were really low, we only averaging around 12 people in a net. The still with the help of an additional relay on 80m. We have not experienced such bad conditions for a few years now and because of this, the average has grown immensely. In the early days we sometimes had up to 32 people calling in.

The 20m relay has also opened up the Western Cape stations to the net and regular call in's there also help.

On a Saturday morning, you can join the Western Cape AWA on 3630 at 07:00; The KZN AWA on 3650 at 07:30 and then the National Net on 7140 at 08:30 with a relay on 20m (14135).



## AM Nets:

Our AM nets have been quite restricted during this winter period with the 80m band only opening after sunrise. This severely reduces the amount of time for the AM net, all the SSB nets hovering around from 07:00. As summer starts to make its presence known and sunrise moves forward every week, of course more time will become available to those who are prepared to drag themselves out of bed at some unearthly hours. But it definitely gets better.

The Wednesday evening nets have been plagued with poor band conditions for some time now as the band seems to fade very early on in the evening, sometimes coming back after 20:00, but without any guarantees.

A few of us have tried coming up a bit earlier in the evening, which has made things a bit better, but the band will normally die at around 19:30, which is most frustrating.

Hopefully with the changing seasons this phenomena will start to change and conditions will get better, but then there are the coming Highveld storms which will bring with them loads of QRN

There have not been many additions to the AM net, but the call in normally ranges from 2 to 8 stations, mostly using valve AM sets. We always welcome more guys on the AM net, although it also becomes quite difficult to accommodate everyone with the band being as it is when we get a lot of callers.

But don't be dismayed, we will always make a plan when the rush starts.

You can join us on AM on a Saturday morning from around 06:00 or before and a Wednesday evening from around 18:30 on 3615.



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**Get your backdated issues  
at  
<http://www.awasa.org.za>**

**Antique Wireless Association  
of Southern Africa**

**Mission Statement**

Our aim is to facilitate, generate and maintain an interest in the location, acquisition, repair and use of yesterdays radio's and associated equipment. To encourage all like minded amateurs to do the same thus ensuring the maintenance and preservation of our amateur heritage.

Membership of this group is free and by association. Join by logging in to our website: [www.awasa.org.za](http://www.awasa.org.za)

**Notices:****Net Times and Frequencies:**

Saturday 06:00—AM Net—3615  
Saturday 07:15—Western Cape SSB Net— 7140 (Alternate 3630)  
Saturday 07:30—KZN SSB Net—3650  
Saturday 08:30— National SSB Net— 7140; relayed on 14135 beaming to WC.  
Saturday 14:00— CW Net—7020  
Wednesday 19:00— AM Net—3615, band conditions permitting.

**AWA AM and SSB QSO Parties:**

On Saturday 10th October will be the second part of the AM QSO Party from 13:00 to 17:00 UTC (15:00 to 19:00 SAST)  
On Sunday 11th October will be the second part of the SSB QSO Party from 13:00 to 17:00 UTC (15:00 to 19:00 SAST)  
More information will be published closer to the date or refer to the SARL Blue Book, or the AWA website for more information.

**AWA AGM:**

The AGM will be held on Saturday 14 November 2015 at the SAIEE conference center.  
Election of Office bearers and a new President will take place at 11:00.  
There will be a Flea Market and display starting from 09:00.  
The Saturday morning SSB net will be run from the shack at SAIEE.