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WATTS

10 - 2005

Year 75+10m

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

✉ PARC, PO Box 73696 Lynnwood Ridge 0040, RSA

web <http://www.qsl.net/zs6pta>

Bulletins : 145,725MHz 08:45 Sundays / Sondae
Relays : 1840, 3700, 7066, 10135, 14,200 MHz
depending on season

✂ Swapshop: After bulletin 2m and 40m (also on-line)

Stan ZS6SDZ – Master Radio Restorer - receives PARC Honorary Membership - see some restored ham receivers inside



In this issue

- Editorial
- History ZS75PTA
- Fleamarket 3 Sept
- Member news
- Diary
- Member contributions
- Page eight

in hierdie uitgawe

- Redaksioneel
- Geskiedenis
- Vlooiemark
- Ledenuus
- Dagboek
- Lede bydraes
- Bladsy agt

Next Meeting 05-10-2005

Time: 19:30 for 20:00
PARC Clubhouse,
South Campus,
University of Pretoria.
SE cnr University and
Lynnwood roads.

PARC Management team / Bestuurspan Aug 2005- Aug 2006:

Committee members

Chairman, SARL liason, Fleamarkets	Almero Dupisani	ZS6LDP	almero.dupisani@up.ac.za	012-567-3722	082-908-3359
Vice Chairman, Secretary Rallies, Social, Hamnet	Johan de Bruyn	ZS6JHB	johandbr@absa.co.za	012-803-7385	082-492-3689
Treasurer, Clubhouse, Database, DF hunts	Richard Peer	ZS6UK	peerrk@safrica.com	012-333-0612	082-651-6556
Newsletter Kits	Hans Kappetijn	ZS6KR	hans@qrz.co.za	012-333-2612	072-204-3991
Historian Awards	Tjerk Lammers	ZS6P	zs6p@iafrica.com	012-809-0006	
Repeaters , Technical Public Relations	Craig Symington	ZR6REV	craigsym@global.co.za	012-997-4504	083-259-3233
Repeater custodian	Pine Pienaar	ZS6OB	janpienaar@ananzi.co.za	012-345-1801	082-447-7823

Co-opted / Geko-opteer:

Repeater, technical	Johan Lehmann	ZS6JPL	jlehmann@csir.co.za	012-804-6173	083-300-8677
	Hans Gurtel	ZR6HVG	adele123@absamail.co.za	082-940-0623	082-940-0623
	Pieter Human	ZR6AHT	humanp@telkom.co.za	012-800-2888	082-565-6081
Repeater Maintenance	Willie du Plessis	ZS6AEA	hesterdup@webmail.co.za	012-565-5555	083-653-2101
Auditor	Egbert Begeman	ZS6AZG	egbert@worldonline.co.za	012-347-1905	082-490-1963
Asset control	Andre v Tonder	ZS6BRC	andre.vtonder@absamail.co.za	361-3292	082-467-0287
Tydrenne	Johann de Beer	ZR6YV		011-918-1060	082-857-1561
Klubfasiliteite, vlooiemark	Willie Greyling	ZR6WGR	willie@up.ac.za		082-940-2490
Webmaster,	Sander Wissing	ZS6SSW	zs6ssw@qsl.net	012-661-4853	083-607-4549
RAE	Brian Scott	ZR6BJS	scottbri@gmail.com	084-312-7407	
Hamnet, projects	Roy Newton	ZS6XN	newtonr@telkomsa.net	012-547-0280	
Morse testing	Bill Ingleson	ZS6KO		012-331-2327	
Tea	Molly Peer	ZR6MOL	molly@peer.co.za	012-333-0612	
	Doreen de Bruyn	ZR6DDB		012-803-7385	

Editorial

Spring has sprung and the weather is just right to do some outside work on antennas and cabling. Besides that, look at earthing while you are about it. Imagine it all getting wet and buffed about by wind. Is it OK for the coming season? Are you ready for emergency work?

In the US ham radio has been in great demand after Katrina and a call went out for 500 amateur radio operators by the Red Cross to man some 260 shelters. The US Coast Guard also requested hams to help with its relief efforts. According to *The Wall Street Journal*: "As Telecom Reels From Storm Damage, Ham Radios Hum" The reporter who wrote this however seemed to think that ham radio still uses WWII technology and "jabber with each other for hours during normal times" but admits that they can use battery-operated radios and 50 feet of fence wire to get the necessary communications going.

The authorities have no choice during such disasters but to cling to ham radio as a last resort and they know it.

In Katrina's and lately Rita's case we still have to see what recognition and accolades the amateur fraternity may get so that especially the general public (and reporters!) everywhere can change their apparent backward- and unwanted-stepchild image of ham radio.

Redaksioneel

Die lente is met ons en die weer net reg om iets buite aan antennas en kables te doen. Buiten dit, kyk ook na aarding terwyl jy daar besig is. Verbeel jou dat dit alles kan nat word en deur wind geruk word. Lyk dit goed vir die komende seisoen? Is jy reg vir noodbystand?

In die VS was amateur radio in groot aanvaag na Katrina en 'n oproep vir 500 amateurs is gemaak om sowat 260 skuilings te beman. Die VS Kuswag het ook amateurs gevra om te help met noodleniging. Volgens *The Wall Street Journal*: "As Telecom Reels From Storm Damage, Ham Radios Hum" Die verslaggewer wat dit geskryf het, het egter gedink dat amateurs nog WOII tegnologie gebruik en "vir ure met mekaar lappe kou onder normale omstandighede" maar tog erken dat hulle battery aangedrewe radios en 'n 50-voet stuk heiningdraad die nodige verbinding kan bewerkstellig.

Die owerhede het geen keuse gedurende sulke rampe om as laaste hoop amateur-radio te ontbied nie – en hulle weet dit.

In Katrina en onlangs Rita se geval sal ons nog moet sien wat se erkenning en dank die amateur-gemeenskap sal kry so dat veral die algemene publiek (en verslaggewers!) oorals hulle oënskylike agterlike- en ongewenste-stiefkind beeld van amateur-radio kan verander.

ZS 75 PTA

1930-2005

PRETORIA BRANCH NOTES

Dec 1947

Members of this branch extend their sincerest good wishes to Council, Headquarters, the Editor, all Branches and all members of the League, for Christmas and the New Year.

Many regulars were absent from our October meeting, which was our ragchew evening. Business discussed included the O.C.S. and members were clearly satisfied that the Branch committee had done its share so far as O.C.S. was concerned.

Our Branch Funds are in a healthy state as was indicated by a donation of £2/2/0 to the Rand

Daily Mail Xmas Fund and a further donation of £5/5/0 to the Food Parcels for British Amateurs scheme. A collection was held and an additional £5/5/0 collected for the Food Parcels Scheme.

The meeting with Johannesburg and East Rand hams at Halfway House is to take place on the evening of Friday, February 6th, 1948. We hope to meet everybody in Division 6 at this meeting.

The winner of our field day O. M. Gerrit Erasmus (6PA) is to receive one year's subscription to Q.S.T. A very fine prize indeed!

Jan 1948

PRETORIA BRANCH NOTES

Our December meeting was fairly well attended and the January meeting will be our annual general meeting. Not one member of the present committee is willing to stand for re-election, a decision which we hope will be reconsidered. Getting young blood on the committee is not a bad idea, but we need some of the older members for expert guidance. Members decided by ballot, that the meter donated by OM Tommy Cockbain (6MY) should go to OM Leon Verheijen (6GF), for his untiring efforts to stimulate interest in the branch. Leon then decided that the meter will be raffled at the A.G.M. and the proceeds donated to branch funds. OM Jack Malebyse-Smith (6MC) then gave an interesting lecture on wave propagation.

Heard Whilst eavesdropping

We would like to congratulate OM Gerrit Erasmus (6PA) on his marriage last month and wish him and his bride everything of the best for the future. We hope he lives up to his callsign!

OM Dave Williams (6JW) was in hospital quite recently but is now better and on leave at Margate.

We trust that OM Wilfred Dibble (6AG) will receive benefit from his recent operation and recover his hearing 100%.

We wonder whether OM Van Rensburg (6KF) has a dud receiver, because the Europeans call him like mad after his CQ's on 20 but he does not reply!

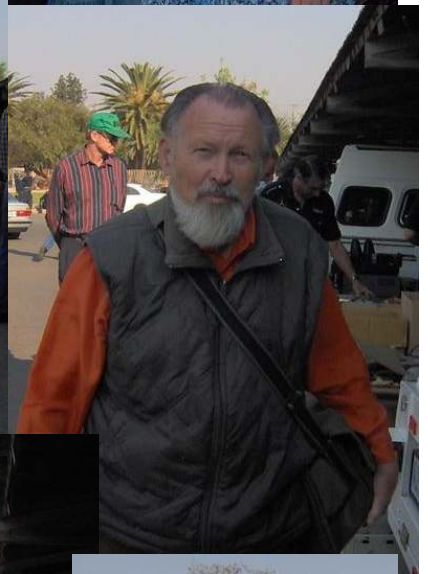
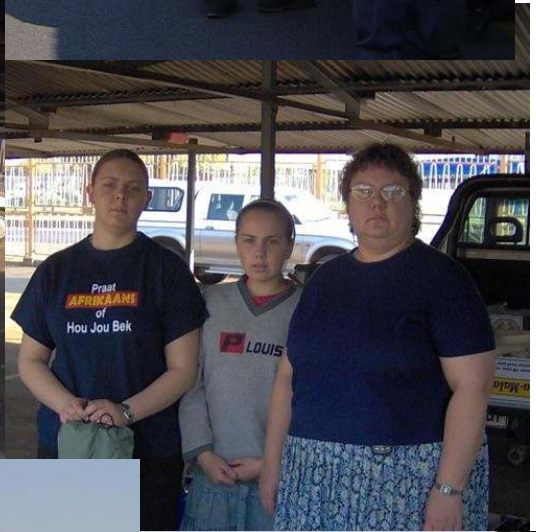
OM Leon Verheijen (6GF) is still busy on a 10 metre beam but has mounting problems.

OM Mike Smuts (6GO) has a "plumbers delite" on 10 metres and is still roping them in on 20 metres. Has 127 countries now.

OM Dave Reeves (6EY) is off to Britain on the 14th Jan., on the same boat as Y. L. Joy Jones (6MW) and OM Aubrey Jones (6H).

Y. L. Edie Bennett (6BD) is now a member of the YLRC in America.

OM Ralph Frazer (6RF) ex W7GVN was a visitor at our last meeting and thinks that ZS Land is a ham's paradise.



Minutes of the monthly club meeting of the Pretoria Amateur Radio Club held at the South Campus of the University of Pretoria on 7 Sept. 2005

Welcome: Almero ZS6LDP declared the meeting open and welcomed all who attended.

Attendance: 16 members and 1 visitor, Jan Grey ZR6BKL. Apologies were received from Brian ZR6BJS, Hal ZS6WB, Hans ZS6KR, Johan ZS6JPL, Bill ZS6KO, Doreen ZR6DDB, Ivan ZS6CCW, Charl ZR6GN and Sander ZS6SSW.

Personal Matters/Lief en leed: Craig ZR6REV announced that they are expecting their second child.

Pine ZS6OB gaan weer opa word – vierde kleinkind.

Hal ZS6WB back from the USA.

Matters arising from previous minutes: None.

Minutes of previous meeting: The minutes of the previous meeting as published in Watts were approved. Proposed by Pine ZS6OB and seconded by Richard ZR6CK.

Correspondence/ Korrespondensie.

Johan ZS6JHB – aansoek om lidmaatskap ontvang van Jan Wessel Grey ZR6BKL.

Membership. 116 members paid – 26 unpaid members

Club Activities/Klub Bedrywighede.

Rallies/Tydrenne.

Johan ZS6JHB – Volgende tydren – Toyota Dealer 400 Off Road - Lydenburg/Dullstroom omgewing. Tydren gaan beslis word oor 1000 km en vind plaas 13 tot 15 Oktober. Johan benodig die dienste van 18 Radio Amateurs om kommunikasie te verskaf.

Total Limpopo Rally.

Vind plaas 21/22 Oktober in Tzaneen – 18 trajekte – benodig 12 veldstasies, 1 beheer stasie en 5 mobiele stasies.

Lede wat belangstel om te help met kommunikasie kan Johan kontak op 082-492-3689 of 012-803-7385 na 6 uur saans.

Fox Hunt/Jakkals jag.

Richard ZS6UK – next Fox hunt – 10 September 2005. Start is at the Botanical Gardens in Silverton at 14.00.

Social/Sosiaal.

Bring & braai after Fox Hunt at home of Johan ZS6JHB.

Financial report/Finansiële verslag.

Richard ZS6UK – statements received today – financial affairs in good shape.

Members were reminded to please state call sign when paying subs via internet.

Projects/Projekte

Almero ZS6LDP – Radio protection units available from Hans ZS6KR.

Technical/Tegnies.

Pine ZS6OB – begin eersdaags met eksperimente by WNNR

Herhaler werk tans goed – Pine sal rapporte waardeer van enige deurbraak/steurings op die herhaler.

Fleamarket/Vlooiemark.

Almero ZS6LDP – almal bedank vir hulle dienste gelewer tydens die Vlooiemark – Richard en Molly Peer, Pieter, Magda en Lizette van Wyk, Tjerk Lammers en Willie Greyling. Die Vlooiemark was n groot sukses. Almero het 'n beroep gedoen vir nuwe voorraad vir die volgende vlooiemark wat einde November 2005 sal plaasvind.

Craig ZR6REV suggested that a roster should be drawn up in future for talk-in on 2m for directions to the venue.

Ham Diary/Dagboek. The meeting was informed of local and overseas activities during September and October. The most important local items were:

September.

12 – closing day for logs SARL HF CW contest.

16 - closing day entries RAE.

17 – 18 SARL UHF/VHF contest (2nd leg)

30 – Final payment date for SARL membership subscriptions.

October.

03- Closing date for logs SARL VHF/UHF Contest

03- Schools open

06- SARL 80m QSO Party (2nd leg)

General/Algemeen.

Upgrading ZR to ZS – Tjerk Lammers ZS6P house – Sundays 10.00 – 12.00

Contact Johan ZS6JHB for appointments and info regarding upgrading.

Almero ZS6LDP – Dept of Communications – sponsor schools in Winterveld. We must identify schools closer to Pretoria .

Pine ZS6OB – ZS6TUK - need entry point

Antenna Day Centurion Radio Club – 18 October at 14.00.

Presentation/Aanbieding.

Craig ZR6REV – Youth in Amateur Radio.

The meeting closed at 21.05

Budding Radio Hams? (extract from an article in PEARS newsletter August 2005)

Some Ohio, USA teens have been able to make a 55,1 mile Wi-Fi connection. The teens got an ovation at the DefCon Hacker Conference when organizers announced that these winners of this year's Wi-Fi shoot-out might have broken a distinct world record for achieving this as ground distance.

The Guinness world record for Wi-Fi connection stands at 310 km achieved in 2002 by equipment maker Alvarion and the Swedish Space Corporation. They however used amplification and a weather balloon in the stratosphere.

Six teams participated, including two women who won an award for the most innovative antenna design, which consisted of an assortment of cardboard, duct tape and a car sun visor. That was only slightly less conventional than previous contestants, who built antennas from Pringles and Hormel Chili cans.

Contestants had to set up a pair of computers, get an 820.11b Wi-Fi connection working on each, and then see how far apart they could place the computers to still maintain a connection using home-brewed and commercial antennas with and without amplifiers.

The teams had to use encrypted messages provided by the judges. The winning team logged increasing distances over two days verified by GPS co-ordinates. The teens, two of them 18 years old and the other 19, achieved the 55,1 miles along with amplification, exceeding last year's winner by 20 miles. Then, when they established that record, they turned off their amplifiers and broke the record for an unamplified connection also.

Birthdays

Verjaarsdae

Oktober



02 Hans-Peter ZR6AJS
02 Andre ZS6BRC
03 Poppie ZS6BCP Iv van Hansie ZS6AIK
06 Danny ZS6AW
09 Ed ZS6UT
10 Harry ZS6AMP
10 Roy ZS6MI
11 Kevin, son of Tim ZS6TIM
13 Bill ZS6KO
14 Gary, son of Joe ZS6TB
16 Vasti, dogter van Hennie ZR6HEN
16 Hennie ZR6HWM, seun van Hansie ZS6AIK
20 Corlene, dogter van Hansie ZS6AIK
20 Martinho ZS6BQP
21 Jan ZS6BBK

October

Anniversaries Herdenkings

03 Poppie ZS6BCP Iv van Hansie ZS6AIK (43)
07 Moffie en Bokkie ZR6CL (33)
13 Susan en Freddie ZS6JC (?)
17 Elmarie ZR6AXF en Johan ZS6JPL (13)

21 Louise, Iv van Almero ZS6LDP
26 Rae, sw of Mike ZS6AFG
26 Callie ZS6BRY, seun van Freddie ZS6JC
27 Craig ZR6REV
28 Tracy, daughter of Graham ZR6GJR
28 Carl ZS6NCC
30 Viv ZS6BZS
30 Andre ZS6GCA

Sick Parade | Krukkelys nil

PARC Diary Dagboek

Oct 02 RSGB 21/28MHz SSB contest
03 Closing date for SARL V/UHF Contest logs
05 PARC Club meeting
06 SARL 80m QSO Party
09 Oceana DXCW Contest
14-15 CQ Hou Koers
15-16 JOTA/JOTI
29-30 CQWW DX Phone Contest

Nov 02 PARC Club meeting
12-13 SARL HF Field Day 2nd leg
26-27 CQWW DX CW Contest

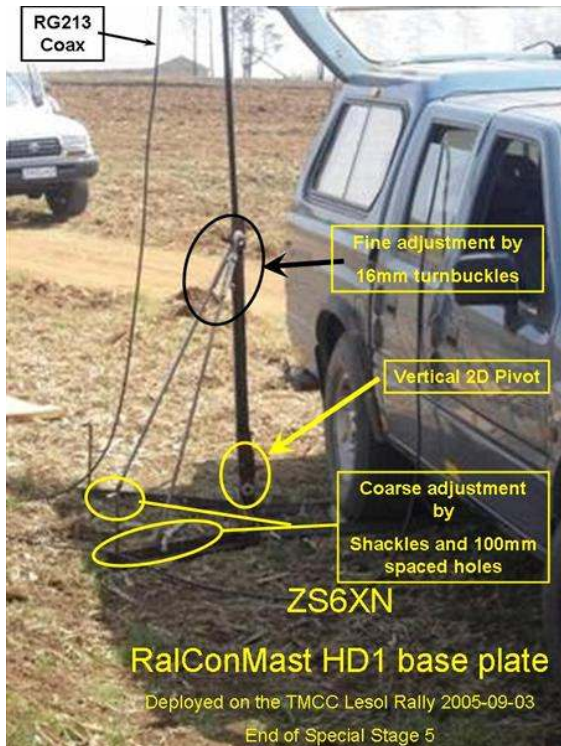
Snippets | Brokkies

- **Upgrades:** Joe ZR6SA is now **ZS6JGN**. Recent assessments were done for Tobile ZR6TDK, Craig ZR6REV and Japie ZR6JH.
- **Our 2m repeater site experienced a veld fire** and our mains supply cable was damaged putting the repeater on batteries for a few days. Pine ZS6OB and Moses, Sander ZS6SSB, Craig ZR6REV, Pieter ZR6AHT and another labourer spent most of their weekend laying a pipe for a new 50m cable 50cm deep in rough rocky terrain which was no mean feat. A very big thank you to these dedicated members.
- **New members / Nuwe lede:** Flip ZS4GE, Jan ZR6BKL, Hennie ZR6LOM en Iv Gerda ZR6BDL. Baie welkom aan julle almal.
- **SARL QSL Bureau:** Due to a new ruling, PARC non-SARL members can now add their call signs to the PARC club member list at the SARL. Incoming QSL's to PARC members will be brought to club meetings *by favour of Hal ZS6WB and distributed here*. Members not regularly attending club meetings should *not* list their name but rather send SASE's (DL size for 15 cards) to the SARL as stipulated.
- **Hamnet N. Gauteng** is weer in volle swang. Indien u belangstel, kontak Johan ZS6JHB 082-492-3689
- Kom kyk, bedryf en koop die nuutste ICOM radios by Pine ZS6OB se QRA – 082-447-7823 vir afspraak.

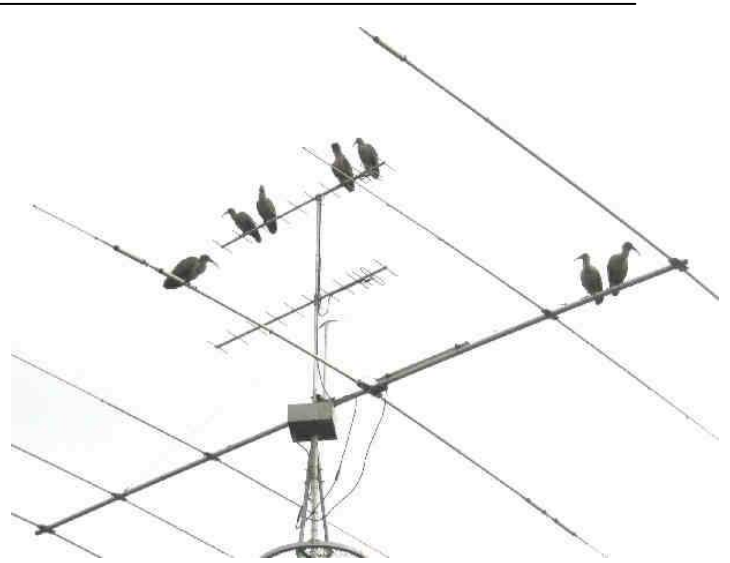


Radio protection kits as published in WATTS July 2005 are now available @ R80 from Hans ZS6KR. Postage is R10 extra. Full instructions are provided. Order by phone 012-333-2612 or cell 072-204-3991 or email hans@grv.co.za. Installations can be done at a moderate consideration.

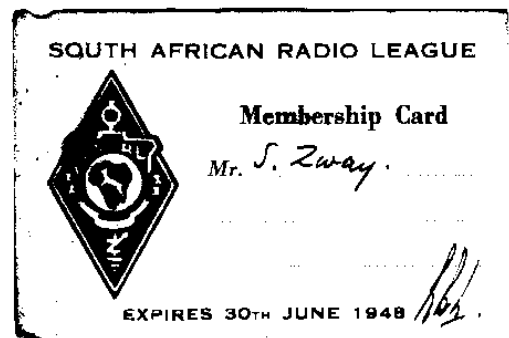
Member activities and contributions



TMCC Rally set-up ZS6XN. September 2005



Hadida ragchew on the antennas of Mike ZS6AFG (Truly loaded yagi's)



Below: Some renovated and fully working receivers in the extensive collection of Stan ZS6SDZ. Many of these were aquired as rusty wrecks and were completely stripped, cleaned, facelifted, rewired | built and aligned to meet original specifications. He can demonstrate any one of them to visitors. Can any of our members beat his SARL membership?



HALLICRAFTERS MOD. SX - 28



WESTERN ELECTRIC TYPE - 20



COLLINS MOD. 75 S - 3



RME MOD. 84

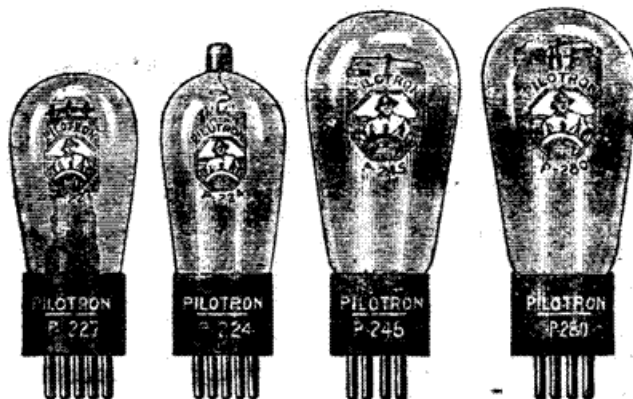
Data Sheet No. 9
**Pilotron
 Radio Tubes**



**WORLD'S
 LARGEST RADIO
 PARTS
 MANUFACTURERS**

PILOT RADIO & TUBE CORPORATION, 323 BERRY ST., BROOKLYN, N. Y., U. S. A.

1935



PILOTRON RADIO TUBES are made to meet one high standard of operation. They are subjected to sixteen different tests, and if they fail to meet them they are entirely destroyed. There are no "seconds" or "thirds"; all Pilotrons are "firsts" in every sense of the word.

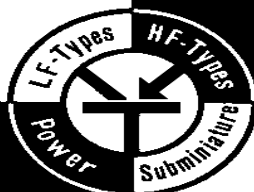
In handling any radio tubes, remember that you are dealing with highly sensitive instruments. Handle them carefully and protect them from violent jars and vibration. Do not exceed the rated operating voltages, even for a short time. If you treat your tubes intelligently, they will last a long time and give uninterrupted satisfaction.

Feb 1959 - The first transistors become available

SOME APPLICATIONS

- OC 70**— General purpose transistor suitable for small signal amplification, as oscillator and for control.
- OC 71**— Similar to type OC70, but with a higher gain.
- OC 72**— Transistor for audio output stages, specially push-pull stages class B up to 400 mW.
- OC 75**— Similar to type OC71, but with a higher current gain, $a' = 90$.
- OC 76**— Transistor for electronic switching, D.C. converters and control. Maximum switching current = 125 mA.
- OC 77**— Similar to type OC76, but for higher voltages up to 60V.
- OCF 71**— Phototransistor, similar to transistor type OC71.

- OC 44**— H.F. transistor having a cut-off frequency of 15 Mc/s. Main application is in medium wave self oscillating mixer stage.
- OC 45**— H.F. transistor having a cut-off frequency of 6 Mc/s. Main application is for I.F. amplification.
- OC 170**— H.F. transistor in pushed out base construction having a cut-off frequency of 70 Mc/s. Suitable for use as oscillator or self oscillating mixer up to 25 Mc/s. as R.F. amplifier, and 10.7 Mc/s I.F. amplifier.



- OC 16**— L.F. Power transistor for class A and B output stages at voltages of 7 and 14V, and for switching circuits. Maximum output from a pair of transistors in class B push-pull is approximately 15W.
- OC 30**— Similar to type OC16, but with a lower maximum collector dissipation. Maximum output from a pair of transistors in class B push-pull is approximately 7.5W. Output in class A approximately 1W.
- OC 74**— Similar to type OC72 but with larger dissipation and peak current. Maximum output from a pair of transistors in class B push-pull approximately 1W.

- OC 65**— Miniature transistor for hearing aids. Dimensions 3 x 4 x 7 mm. $a' = 30$.
- OC 66**— Similar to type OC65, but with a higher gain $a' = 47$.
- OC 57**— Subminiature transistor for hearing aids. Dimensions 4 mm. x 3 mm. dia. $a' = 50$.
- OC 58**— Similar to type OC57, but with higher gain $a' = 65$.
- OC 59**— Also similar to type OC57, but with even higher gain $a' = 90$.



Obtainable at all Branches of **S. A. PHILIPS (PTY.) LTD.**

When you have eliminated the impossible, whatever remains, however improbable, must be the truth. ~ Sir Arthur Conan Doyle