



Q S X
P E

*Port Elizabeth Branch of the
South African Radio League*

PO Box 462 Port Elizabeth. 6000

*Season's
Greetings*

National Call	145.5 Mhz
P.E. Repeater	145.05/65
Grahamstown	145.15/75
Wynberg Slipper	145.10/70

ZS2PE

Bulletin: Sunday 08h40
HF: 40m — 7098 KHz
VHF: FM-145,700 MHz

Dec. 82

Port Elizabeth Branch

FROM THE CHAIR.

Another year has, all too quickly, come and gone. Once again we find ourselves at that time of the year advocating peace, fellowship and joy to all. More's the pity we do not adopt these feelings and attitudes all the year round. The Christian world would certainly be a better place to live in as a result. As far as our Branch is concerned the feeling of goodwill and co-operation is very much in evidence, especially between the two branches in P.E. There has been a dramatic improvement in the relationship, for which we are all grateful. I trust the situation will continue to improve to the advantage of all. To you, your families and loved ones, I wish a blessed Christmas and prosperous new year.


CHAIRMAN.

COMMITTEE MEMBERS:

Chairman	Dick ZS2RS	322111
Vice Chairman	Trevor ZS2AE	321746
Secretary	Marge ZS20B	303498
Treasurer	Brian ZS2AB	303498
Projects	Lionel ZS2DD	321770
Special Events	Colin ZS2AO	312471
	Fred ZS2EQ	0422 -31419
Awards	Attie ZR2DY	533398
QSX-PE	ZS2AB and ZS20B	303498



'n Geseënde Kersfees
en 'n

Voorspoedige Nuwe Jaar.

At Christmas, the
miracle of the
manger lives anew.
May this holy time
bring abundant
blessings to you.

MONTHLY BRANCH MEETING.

PLEASE TAKE NOTE THAT THERE IS NO BRANCH MEETING DURING DECEMBER, SO THE MINUTES OF THE NOVEMBER MEETING ARE BEING HELD OVER FOR THE JANUARY EDITION OF QSX-PE.

THE EDITORS OF QSX AND THE OTHERS OF THE COMMITTEE TAKE THIS OPPORTUNITY TO WISH COUNCIL, MEMBERS OF THE BRANCH AND ALL OTHER MEMBERS OF THE LEAGUE A PEACEFUL, BLESSED AND HAPPY CHRISTMAS.



CONDOLENCES

and Dick Schönborn ZS2RS on the death of Gay's

father rest

Mcpper ZS2PP and family of Port Alfred, who
father a short while ago. Sincerest sympathies
from the Committee and members.

NEWS
and VIEWS

also to both
WEL
a
BIL

the following who have recently joined the
live Cornell ZS2GQ ex ZS6ABF who has acquired
an antenna and is now settled in Charlo:
ZS2BY who has had several call signs in the
name in Fernglen: to Ron Levy ZS2Q and Paul Berwick
ZS2SI. We wish you all a long, happy and fruitful

past, and has now
ZS2B0, both of Gra
association with

QTH NEWS: Peter ZS2 has just moved into his new qth and has set up a
multi-band horizontal antenna to accomodate the family washing but will be
erecting his tower soon while he is on leave. Brian ZS6AEB and
Sheila ZS6BZX have moved into their new qth in Pretoria and have been
hard at work planting trees, but had time to get a 40 m dipole up which
seems to be working. After much silence from Neil ZS2AI in Queenstown
on the Sunday morning read-up, we hear that he has been qrl putting in a
swimming pool just for the hot weather. Enjoy the fruits of your
labours!

CONGRATULATIONS: To Alan Heerden ZS2BX who has come on phone after his
year of cw. We hope to hear more of you on Sundays, Peet. Also to Sam
ZS2SI and Eunice on their new grandparents.

FOR SALE TOWARDS FRIENDS.

One 5 element 6 metre beam antenna of
unknown (but commercial) make. This
antenna has been used but is not in poor
condition. It was donated to us by Andries
Fourie formerly of Vitshage. We will
accept any REASONABLE offer after inspec-
tion by prospective purchasers. On view
at, and offers to ZS2SS. (30-3498).



ALASKA'S GIANT WIRE.

The Alaskan Oil pipeline has an unexpected property. It could be described as a giant electric wire, says the London Times. As a result, large surges of electric current have been detected. It seems that magnetic fluctuations in the Northern hemisphere are particularly strong, inducing a current in the walls of the Alaska pipeline, as though it were a wire moving through a magnetic field. Currents of over 50 amps have been measured, and up to 1000 amps are expected during periods of greatest atmospheric disturbance. (Average house outlets carry about 13amps) Scientists say that the only problem this could create are more rapid corrosion of the metal and interference with the pipeline's electronic monitoring equipment.

(from The Electron, Sterling Rock Falls ARS and SARA Newsletter per courtesy of Ed K8EMI)



"I NEED TO PHONE IN SIXK -
MY BOSS WAS AT THE PARTY."



TECHNICAL NOTES

GAIN

The industry standard for defining gain in antennas is by referring the performance of the test antenna to a dipole for base station and to a quarter wave whip for mobile antennas. The reference antenna is given a gain of unity which is 0 dB. We use this standard for our gain figures but some of the less scrupulous people do quote gain against an isotropic antenna which is an imaginary type of antenna which has a theoretical gain of 2,15 dB over a practical dipole antenna.

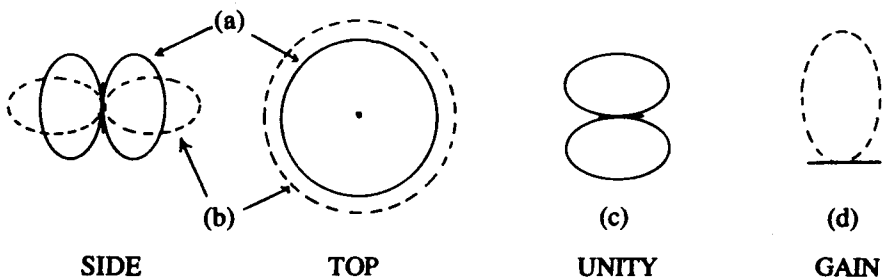
What does GAIN imply? If a vertical antenna is used, the radiation patterns from the side and looking down from the top look like Figure (a).

Vertical stacking of antennas in stacked dipole arrays or co-linears results in beam compression giving a flatter pattern spread over a larger area - rather like pressing down on a balloon and the difference between the normal and the squashed shape is the gain - Figure (b).

In practical terms the fat lobe when viewed from the side of the unity gain antenna which fills in a lot of space is replaced by a narrower beam which goes further but which does not reach the ground so soon. It is possible to have a very high gain antenna on a mountain top such that the beam does not reach the ground for a couple of kilometres with a resulting loss of signal close to the antenna giving poor or non-existent local coverage but excellent signals of 50 km away.

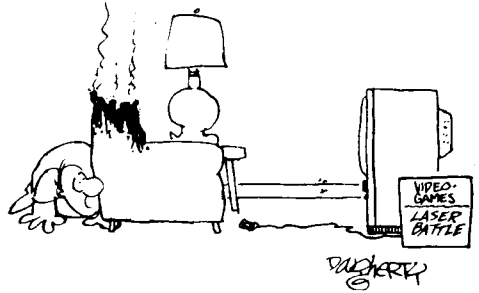
With a Yagi (directional) antenna the beam is squeezed to form a pencil beam which is highly directional with the gain being the amount by which the signal is improved in the one direction compared to a unity gain standard antenna. (Figures c & d)

Vertical stacking of Yagi antennas results in further compression of the beam to give a narrower and larger beam i.e. more gain. The antennas can also be "bayed" to squeeze the pattern even more.





"It says that antennas over 15 cubits high are not allowed."
 — Poway CA ARS via ARRL Club News



A merry Christmas
 and a
 Prosperous New Year.



Boy! Am I a Mess!

When God gave out brains,
 I thought He said trains,
 And I missed mine.

When He gave out looks,
 I thought He said books,
 And I didn't want any.

When He said noses,
 I thought He said Roses,
 And I ordered a big red one.

When He said legs,
 I thought He said kegs,
 And I ordered two flat ones.

When He gave out ears,
 I thought He said beers,
 So, I ordered two long ones.

When He gave out chins,
 I thought He said gins,
 So I said, "Give me a double" ...
 Boy, am I a mess!

BULLETIN ROSTER.

2nd January	Fred ZS2EQ
9th January	Attie ZR2DY
16th January	Dick ZS2RS

The phone numbers of these bulletin readers will be found on the front page. Give them a surprise and let them have some news for their bulletins.



CQ DX CQ DX CQ DX

30 meters: U.S. Amateurs are not allowed to operate on this band. Contacts on this band will not be creditable towards ARRL awards.

AFRICA: Many African stations are becoming active on propagation lately. Look for ST8A, TN8AJ, TN8AJ.

DJIBOUTI: A recent visitor to DJIBOUTI is JZ8SL. QSL via his home call.

MONGOLIA/ ZONE 23. Walt, JT0GM can be heard on an excellent signal on all bands, and can be QSL'd via UV3GM.

QATAR: A71BJ is a new comer in QATAR on SSB around 1300z. Lef plans CW.

SOUTH ORKNEY: VP8AOE can be found on 14 mhz SSB, sometimes with QSL's.

ARGENTINA: The station signing LU8DQ is in Southern Argentina. Jorge gets a lot of DXCC hopes will count for a new country. It is good for DXCC criteria. It is good for DXCC criteria.

CONGO: Joerg, TN8AJ, is back for good. He will be on all bands, 80 to 10 meters.

Many thanks for this information from the WIAW DX bulletin.

use between 10109 and 10110. Contacts on this band will not be creditable.

advantage of the good low band propagation. Look for ST8A, TN8AJ, TN8AJ.

Walt, JT0GM who is currently signing on.

active from Mongolia with an excellent signal on 10 meters SSB and CW.

can usually be found on 20 meters SSB in early 1983. QSLs via UV3GM.

is at 0300z at the low end of the band.

usually LU8DQ operating portable on 14 MHz as Staten Island which he does not appear to meet any DXCC criteria, anyway.

dedicated operation through to Dec. 27, 1982 on SSB and CW.

via ZS2DE. This is obtained from the WIAW DX bulletin.

Port Elizabeth Branch

AWARD.

In order to qualify for this award, Port Elizabeth Branch members must log at least 10 other members of the branch. This may be done on any band, in any mode, and with no date restrictions. Send either qsl cards, or a certified copy of you log, together with a postal order or 3 IRC's to:

The Awards Manager,
P.E. Branch, S.A.R.L.
P.O. Box 462,
PORT ELIZABETH 6000.

This is an attractive award featuring Port Elizabeth's dolphins and for those interested in collecting "wallpaper" is worth a place on the wall!

Members: ZS1GV, 1WD, ZS2s - AB, AC, AD, AE, AJ, AO, AW, BR, BX, CC, CM, CV, CZ, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.



Nowadays, when collecting an antenna, is L... and 29 still take... consideration?

Thanks to... technical... Colin ZS1A for... cartoons.

AGM'84

This "AGM '84" page will be appearing from time to time to bring you news of the arrangements and progress towards the national AGM to be held here in Port Elizabeth in 1984.

As a kickoff, we list below the names of those who have made direct contributions to the AGM Fund. These contributions will have been in the form of cash, or goods for disposal towards the fund.

Dick ZS2RS (several large donations of various kinds)
Jeff ZS2GJ (twice so far with more promised!)
Basil ZS2PG (also twice)
Algoa Flying Club (twice)
Ed K8EMI via ZS2AB
Neil ZS2AI
Ie Fras ZS2TW
Seymour ZS2RX
Colin ZS2A0
Viv ZS2VM
Attie ZR2DY
Brian ZS2AB and others who contributed goods for the garage sale.

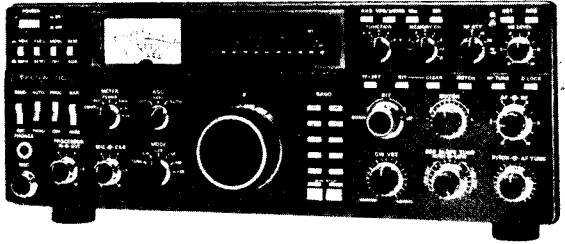
Our thanks go to all those who bought tape recorders, fruit, and items from the garage sale, as this all helped to swell the fund.

I have the frightening thought that I may inadvertently have left someone out of the above list. If so, please accept my humble apologies.

While the AGM is a fairly long way off, we intend setting up a working group or AGM committee to take care of some of the many arrangements which will have to be made in order to ensure a successful AGM, and we need willing workers to serve on this committee. We have invited the Algoa Branch to participate in this venture with us, and the group will include a number of their members as well. I doubt that we could have too many helpers, so PLEASE indicate your willingness to assist as soon as possible to enable the Branch Committee to finalise the group soon. You can contact any committee member. The list of telephone numbers of the committee members appears elsewhere in this issue. Thanks in anticipation.

de ZS2AB.

 **KENWOOD**



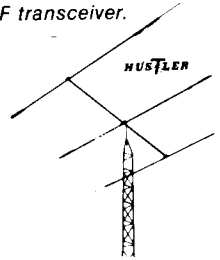
TR 2500

The TR-2500 is a compact 2 meter FM handheld transceiver featuring an LCD readout, 10 channel memory, lithium battery memory back-up, memory scan, programmable automatic band-scan and Hi/Lo power switch.

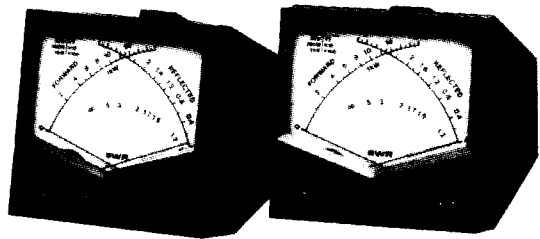
Kenwood's TS-930S HF transceiver.

 **KENWOOD**

hy-gain



DAIWA POWER METERS



CN540
50MHz · 150MHz

CN520
1.8MHz · 60MHz

SUMMIT DISTRIBUTORS

**305 Main Street Tel. 29124
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