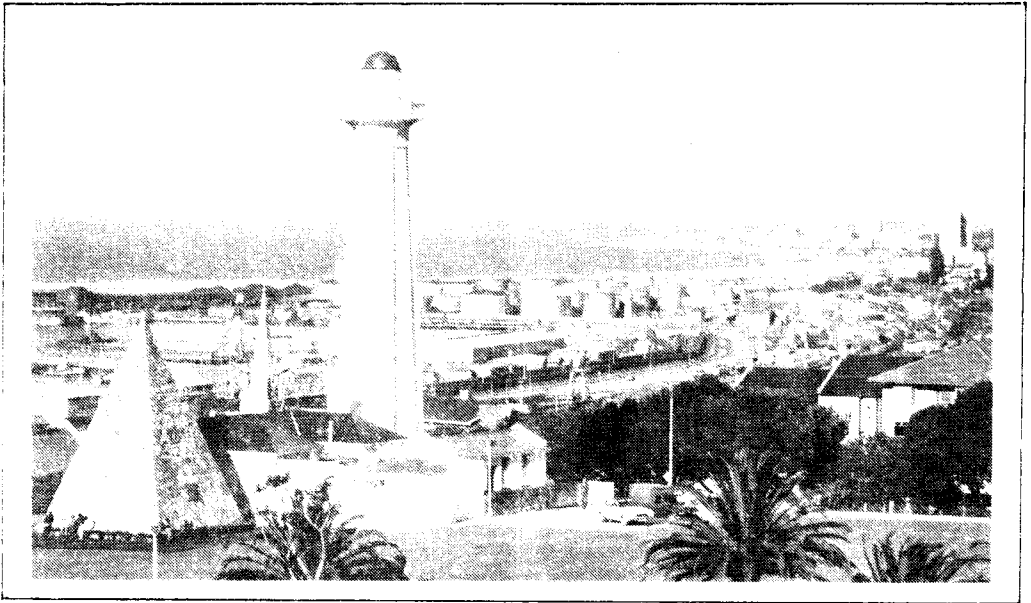
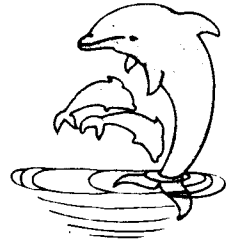




Q S X  
P E



THIS NEWSLETTER IS PUBLISHED BY THE  
PORT ELIZABETH BRANCH OF THE SOUTH  
AFRICAN RADIO LEAGUE.

P.O. BOX 10402  
LINTON GRANGE  
6015

SEPTEMBER 1987

## INVITATION TO ATTEND ANNUAL GENERAL MEETING

AN INVITATION IS EXTENDED TO MEMBERS AND THEIR FAMILIES TO ATTEND THE ANNUAL GENERAL MEETING OF THE PORT ELIZABETH BRANCH ON SATURDAY 19th SEPTEMBER 1987 AT THE SCOUT HALL, CORNER OF RITCHIE CRESCENT AND VON PLETTENBERG STREET, KABEGA PARK AT 3 PM.

THE MEETING WILL BE FOLLOWED BY A SPIT-BRAAI AND SOCIAL GET-TOGETHER.

THE BRANCH WILL PROVIDE THE MEAT, ICE-CREAM AND COLD DRINKS FOR THE CHILDREN.

FAMILIES ARE ASKED TO BRING THEIR OWN SALADS, LIQUID REFRESHMENTS AND EATING UTENSILS

**P O R T E L I Z A B E T H B R A N C H**

# A.G.M. - A.J.V.

THE ANNUAL GENERAL MEETING OF THE PORT ELIZABETH BRANCH OF THE SOUTH AFRICAN RADIO LEAGUE WILL BE HELD IN THE SCOUT HALL, VON PLETTENBERG STREET, KABEGA PARK AT 3:00 PM ON SATURDAY 19TH SEPTEMBER 1987

The AGENDA is as follows:

1. Welcome and Apologies
2. Minutes of Annual General Meeting September 1986.
3. Adoption of Chairman's report.
4. Adoption of Financial Statement.
5. Presentation of Trophies
6. Election of Office Bearers
7. General

DIE ALGEMEME JAARVERGADERING VAN TAK PORT ELIZABETH VAN DIE SUID-AFRIKAANSE RADIOLIGA SAL IN DIE SCOUTSAAL, VON PLETTENBERGSTRAAT, KABEGA PARK OM 3:00 N.M. OP SATURDAG 19 SEPTEMBER 1987, PLAASVIND.

Die Agenda is soos volg:

1. Welkom en Verontskuldigings
2. Notule van Algemene Jaarvergadering September 1986
3. Voorsitter se Jaarverslag
4. Finansiëleberig
5. Toekening van Trofee
6. Verkieping van Komitee
7. Algemeen

MINUTES OF THE ANNUAL GENERAL MEETING OF THE PORT ELIZABETH BRANCH OF THE SOUTH AFRICAN RADIO LEAGUE HELD AT THE SCOUT HALL, WALMER ON SATURDAY 20TH SEPTEMBER, 1986.

PRESENT: 79 MEMBERS AND VISITORS.

APOLOGIES: ZS2AW, ZS2MC, ZR2L, ZR2DY, NOEL STAPLES, ZS2PR, ZS2DT.

THE CHAIRMAN WELCOMED ALL TO THE MEETING, ESPECIALLY HANNES MACLEOD, THE RADIO INSPECTOR, HIS WIFE AND SON, BARRY ZR2DN AND AVRIL ZS2NU GUTHRIE FROM GRAHAMSTOWN AND CYRIL ZS2KX AND BETTE ZS2LO GOODMAN. IT WAS VERY PLEASING TO SEE THE PEOPLE WE SAW ONLY TOO SELDOM.

THE MEMBERS STOOD IN SILENCE IN TRIBUTE TO WOODY ZS1WD, BOB ZS2FA AND VI ZS2BR WHO HAD GONE SILENT KEY DURING THE YEAR.

MINUTES: THE MINUTES OF THE ANNUAL GENERAL MEETING HELD 21ST SEPTEMBER 1985 HAVING BEEN PUBLISHED AND CIRCULATED IN QSX-PE WERE TAKEN AS READ, PROPOSED BY LYNN ZS2MM AND SECONDED BY DICK ZS2DH.

ARISING: IT WAS MENTIONED THAT MEMBERSHIP STOOD AT 101, 10 DOWN FROM LAST YEAR, BUT AS SUBS HAD GONE UP, IT WAS NOT TOO SURPRISING.

CHAIRMAN'S REPORT: BRIAN SAID THAT HIS SOMEWHAT LENGTHY REPORT HAD BEEN PUBLISHED IN QSX AND HE WOULD NOT REPEAT IT ALL, BUT WISHED TO STRESS HIS THANKS TO ALL THOSE WHO HAD WORKED FOR THE GOOD OF THE BRANCH AND FOR THEIR CONTINUED VALUABLE AND APPRECIATED MEMBERSHIP. THIS REPORT WAS PROPOSED BY DICK ZS2RS AND SECONDED BY ZS2DD.

ARISING: IT WAS MENTIONED THAT PERMISSION HAD BEEN RECEIVED FROM THE S.A.P. TO INSTAL THE TOWN REPEATER ON THE NEW BUILDING WHICH WAS A PRIME SITE AND WE WERE EXTREMELY GRATEFUL TO THEM. THERE WAS NO COST INVOLVED AND A VOTE OF THANKS WAS EXTENDED TO THEM.

FINANCIAL STATEMENT: ALL MONIES DUE TO HEADQUARTERS HAD BEEN FULLY PAID. THE INCOME HAD AMOUNTED TO R966, SOME OF WHICH HAD BEEN DUE TO THE SALE OF VIDEO TAPES DONATED BY ZS2RS AND COMPUTER PARTS DONATED BY ZS2BK. THESE HAD HELPED OFFSET EXPENSES SUCH AS THE PRINTING OF QSX-PE. THE TYPEWRITER HAD BEEN REPAIRED, AND A BEAM, MAST AND ROTATOR HAD BEEN PURCHASED.

THIS REPORT WAS ACCEPTED, PROPOSED BY DICK ZS2RS AND SECONDED BY BEAVAN ZS2RL.

ELECTION OF OFFICE BEARERS: AT THIS STAGE, BRIAN ZS2AB VACATED THE CHAIR AND CYRIL ZS2KX THEN TOOK OVER THE MEETING. HE THANKED THE MEMBERS FOR HIS APPOINTMENT AS CHAIRMAN FOR APPROXIMATELY TWO MINUTES AND THANKED THE OUTGOING CHAIRMAN AND COMMITTEE FOR THEIR DEDICATION AND HARD WORK FOR THE BRANCH. HE SAID WE SHOULD GET DOWN TO BRASS TACKS AND ELECT THE NEW CHAIRMAN.

DICK ZS2RS SAID THAT IN VIEW OF THE PROGRESS MADE IN THE PAST TWO YEARS, IT WAS IN THE INTEREST OF THE BRANCH TO PROPOSE BRIAN ZS2AB AGAIN. THIS WAS UNANIMOUSLY ACCEPTED. BRIAN THANKED THE MEMBERS FOR THEIR CONFIDENCE IN HIM AND THANKED THEM FOR THEIR HELP AND CO-OPERATION IN THE PAST AND HOPED THE COMING YEAR WOULD BE AS SUCCESSFUL.

AT THIS POINT, BRIAN CALLED FOR NOMINATIONS FOR THE NEW COMMITTEE AND SAID THAT BEFORE PROCEEDING HE WOULD LIKE TO MENTION THAT WE WERE IN THE UNFORTUNATE POSITION OF LOSING TWO LONG-TIME AND VERY WILLING HELPERS, NAMELY TREVOR ZS2AE WHO WAS FULLY COMMITTED TO CHURCH-MUSIC DUTIES AND DICK ZS2RS WHO DUE TO PRESSURE OF WORK WOULD BE UNABLE TO CARRY ON WITH COMMITTEE WORK. AT THE LAST COMMITTEE MEETING IT HAD BEEN FELT THAT AN INCREASE IN THE NUMBER OF COMMITTEE MEMBERS WAS WARRANTED AS THERE WERE MANY THINGS TO DO AND PEOPLE WERE NEEDED TO DO THEM, SO NOMINATIONS FOR 8 MEMBERS WOULD BE CALLED FOR SO AS TO LIGHTEN THE LOAD. AN OUTLINE WAS GIVEN OF WHAT WAS

EXPECTED OF A COMMITTEE MEMBER AND THE FOLLOWING NOMINATIONS WERE MADE:

NOMINEE	PROPOSER	SECONDER
ZS2DD	ZS2BK	ZS2RL
ZS2DH	ZS2MM	ZS2RM
ZS2OB	ZS2RS	ZS2DD
ZS2RL	ZS2DH	ZS2HZ
ZS2HZ	ZS2DK	ZS2DH
ZS2MM	ZS2-157	ZS2RB
ZS2-157	ZS2OB	ZS2VM

AT THIS POINT ZS2RS PROPOSED THAT NOMINATIONS CEASE AND THIS WAS SECONDED BY ZS2RB. THE NEW COMMITTEE WERE WELCOMED AND A MEETING WAS ARRANGED FOR THE FOLLOWING WEEK TO DECIDE WHO WOULD FILL THE VARIOUS POSITIONS.

PRESENTATION OF TROPHIES:

ZS2OB DX TROPHY - ZS2RM.

THERE WERE NO NOMINATIONS FOR THE OTHER TROPHIES.

GENERAL:

CONGRATULATIONS WERE EXTENDED TO LANGLEY ZS2LW AND BEN ZS2HU ON THEIR C.W. ACHIEVEMENTS IN THE RECENT CODE PROFICIENCY TEST AND TO OWEN ZS2HZ ON BEING PLACED 6TH IN THE QRP CONTEST.

THE JAMBOREE-OF-THE-AIR AND THE OPEN DAY AT THE FLYING CLUB WERE TO TAKE PLACE ON THE SAME DAY AND VOLUNTEERS WERE NEEDED TO OPERATE. SEVERAL MEMBERS EXPRESSED THEIR WILLINGNESS.

GRATEFUL THANKS WERE EXPRESSED TO DICK ZS2RS AND JULIE SCARR FOR THEIR EFFORTS IN ARRANGING THE CATERING AND SPECIAL THANKS TO PEET ZS2BX FOR COMING DOWN FROM NIEU BETHESDA, BRINGING THE MEAT AND ROPING IN HIS BROTHER TO HELP WITH THE BRAAIING.

THERE BEING NO FURTHER BUSINESS THE MEETING WAS CLOSED AND MEMBERS AND FAMILIES ENJOYED THE SPIT-BRAAI AND THE SOCIAL GET-TOGETHER.

SGD: B.A. WELLER ZS2AB  
CHAIRMAN

SGD: M.T. WELLER ZS2OB  
SECRETARY

## Meteor burst communications system

THE DEPARTMENT OF WATER AFFAIRS RECENTLY AWARDED A CONTRACT TO GRINAKEE ELECTRONICS FOR A PILOT METEOR BURST COMMUNICATIONS SYSTEM.

THE DECISION TO PURCHASE THE SYSTEM WAS TAKEN AFTER A SERIES OF SUCCESSFUL DEMONSTRATIONS OF TELEX-LIKE MESSAGES EXCHANGED BETWEEN A REMOTE OUT-STATION AND A BASE STATION IN CENTRAL PRETORIA.

THE GATHERING AND TRANSMISSION OF AUTOMATED HYDROLOGY DATA, SUCH AS WATER LEVELS FROM RIVER GAUGING SYSTEMS IN REMOTE AREAS, IS A MAJOR REQUIREMENT FOR IMPROVED FLOOD CONTROL AND FOR SPECIFIC STUDY PURPOSES.

A FURTHER CRITICAL REQUIREMENT IS THE ACCESS TO RELIABLE COMMUNICATIONS, ESPECIALLY IN TIMES OF NATURAL DISASTERS. FOR EXAMPLE, THE DESTRUCTION CAUSED BY CYCLONE DOMOINA INCLUDED THE FAILURE OF PUBLIC COMMUNICATION NETWORKS IN THE AFFECTED REGIONS OF THE EASTERN TRANSVAAL AND NORTHERN NATAL.

THE ABILITY TO REACT TO CHANGES IN RIVER CONDITIONS AND TO CONTROL RIVER OUTLET STRUCTURES WAS THEREFORE OBSTRUCTED.

METEOR BURST COMMUNICATION RELIES ON THE PHENOMENON OF REFLECTING RADIO WAVES OFF THE IONIZED TRAILS LEFT BY MICROMETEORS AS THEY ENTER THE EARTH'S ATMOSPHERE AND BURN UP. THE MAXIMUM LENGTH OF A SINGLE-HOP LINK IS ABOUT 2 000 KM. A SINGLE MASTER STATION COULD THEREFORE SERVE THE ENTIRE SOUTHERN AFRICAN REGION.

OTHER APPLICATIONS COULD INCLUDE RURAL TELEX SYSTEMS, COMMUNICATION FROM REMOTE CONSTRUCTION SITES, EXPLORATORY DRILLING TEAMS OR LAND SURVEY TEAMS WHERE THERE IS NO EXISTING INFRASTRUCTURE, AUTOMATIC WEATHER LOGGING AND REMOTE CONTROL OF LIGHTHOUSE FUNCTIONS.

FROM CURRENT, JULY 1987.

# Chairmans Report

IT'S HARD TO BELIEVE THAT A YEAR HAS PASSED SINCE I SAT DOWN TO COMPILE MY LAST REPORT! THE BRANCH HAS HAD ANOTHER GOOD YEAR THANKS ENTIRELY TO THE EFFORTS OF YOU THE MEMBERS. THE USUAL ANNUAL EVENTS, JOTA, FIELD DAY, NAVEX OPERATIONS FOR THE FLYING CLUBS, ETC. ALL WENT VERY SMOOTHLY AS DID OUR BIGGEST EVENT DURING THE YEAR, NAMELY THE VW/ALGOA MOTOR RALLY WHICH SAW MORE MEMBERS OPERATING IN THE STICKS THAN EVER BEFORE. THE VERY FAVOURABLE COMMENTS FROM THE TOP ORGANISERS PROVED THAT WE DID IT RIGHT- DARE I SAY- AS USUAL. THEIR EXTREMELY GENEROUS DONATION TO OUR FUNDS SHOWS THAT THEY HAD NO HESITATION IN RELYING ON US TO PRODUCE THE REQUIRED SERVICES.

ALTHOUGH WE HAD FEWER SOCIAL GET-TOGETHERS THAN WE MIGHT HAVE, THERE IS NO DOUBT THAT OUR TRAVELLING SUPPER WAS AN UNQUALIFIED SUCCESS IN ALL RESPECTS.

ON THE FINANCIAL SIDE WE HAVE MORE THAN HELD OUR OWN, ALTHOUGH THE FINANCIAL STATEMENTS AS OF JUNE 30 DOES NOT SHOW THE PICTURE AS IT IS TODAY DUE TO A FAIRLY LARGE INJECTION OF FUNDS SINCE JUNE 30. IN THIS REGARD I MUST SINGLE OUT ANDRE ZS2BK FOR SPECIAL MENTION. YOU ARE ALL AWARE THAT ANDRE HAS ARRANGED WITH HIS SALTMINE ON SEVERAL OCCASIONS THAT SCRAP COMPUTER EQUIPMENT BE DONATED TO THE BRANCH FOR OUR DISPOSAL. POSSIBLY THE MOST AWESOME TASK WAS THE REMOVAL OF THE REDUNDANT MAINFRAME COMPUTER FROM U.P.E. IT STANDS TO THE CREDIT OF THE WILLING TEAM WHO ASSEMBLED AT U.P.E. EARLY ONE MORNING WITH NO IDEA OF WHAT THEY WERE IN FOR, THAT EQUIPMENT WHICH PRODUCED SOME 4 TONNES OF SCRAP METAL ALONE, WAS DISASSEMBLED AND REMOVED FROM THE COMPUTER ROOM IN LESS THAN FOUR HOURS. A COUPLE MORE SHIPMENTS OF EQUIPMENT HAVE ARRIVED AT THIS QTH SINCE THEN. THE COMPONENTS REMOVED FROM ALL THESE UNITS HAVE BEEN (ARE STILL BEING) SORTED AND CATALOGUED FOR SALE, BUT WE HAVE ALREADY BANKED NEARLY R1000 FROM THE SCRAP STEEL, COPPER AND ALUMINIUM FROM THE VARIOUS UNITS. PARTIAL CATALOGUES HAVE BEEN SENT OUT TO BRANCHES, AS WELL AS A NUMBER OF INTERESTED INDIVIDUALS, AND VARIOUS ORDERS HAVE BEEN FILLED, SOME FROM OTHER AREAS. IT IS IMPOSSIBLE TO PREDICT WHAT THE EVENTUAL INCOME MIGHT BE, BUT, WHATEVER IT IS, IT WILL BE VERY WELCOME, AND SINCERE THANKS GO TO ANDRE FOR HIS KINDNESS IN ARRANGING THESE DEALS FOR US. THERE HAVE BEEN MANY COMPONENT-STRIPPING SESSIONS AT MY QTH TO REDUCE THE UNITS TO COMPONENT LEVEL, AND HERE ANDRE, LIONEL ZS2DD AND BILL ZR2AAN HAVE BEEN THE MOST FREQUENT VISITORS DURING SUCH SESSIONS.

MARGE ZS2OB CONTINUES TO PRODUCE OSX-PE ON TIME EVERY MONTH DESPITE HER INCREASINGLY TIGHT SCHEDULE OF COMMITMENTS TO OTHERS, AND SINCERE THANKS ARE DUE TO HER AS WELL AS TO THOSE OCCASIONAL CONTRIBUTORS WHO HEED THE CALLS FOR ARTICLES. THE INVESTMENT IN A NEW P.C. AT THIS QTH WILL EASE MARGES JOB SOMEWHAT, AND ASSIST IN BETTER INITIAL COMPILING OF THE ARTWORK FOR OSX. ONCE AGAIN OSX COSTS HAVE REMAINED VERY REASONABLE THANKS TO THE GOOD OFFICES OF ROBIN AND SYLVIA AT INSTANT PRINTING WHO HAVE CONTINUED TO MEET THE MONTHLY DEADLINE, OFTEN DELIVERING THE FINISHED PRODUCT TO US TO SAVE A TRIP TO TOWN - THANK YOU BOTH FOR YOUR GENEROUS ASSISTANCE. POSTAGE COSTS HAVE RISEN OF COURSE, BUT THERE IS NOT MUCH WE CAN DO ABOUT THAT.

MIKE ZS2FM OUR "AMATEUR OF THE YEAR" AWARD WINNING MEMBER CONTINUES TO KEEP THE VHF FRATERNITY WELL INFORMED OF CURRENT EVENTS BY WAY OF HIS SUNDAY EVENING BULLETINS - MANY THANKS FOR YOUR DEDICATION MIKE.

ONE EXPENSE WHICH HAS DROPPED SIGNIFICANTLY IS OUR ELECTRICITY BILL FOR LADIES SLIPPER REPEATER. AS A RESULT OF ARRANGEMENTS MADE YEARS AGO, WE WERE ALLOWING VARIOUS FREE-LOADERS TO USE OUR SUPPLY, AND THE LAST OF THESE WAS GIVEN MARCHING ORDERS EARLY IN THE YEAR. OUR CONSUMPTION DROPPED BY ABOUT R4 A MONTH ! WE NOW PAY ABOUT 40C A MONTH FOR THE JUICE AND R9 FOR THE PRIVILEGE OF HAVING IT ! THIS CAN BE OVERCOME IN THE LONG-TERM BY THE USE OF SOLAR-PANELS WHICH WE ARE INVESTIGATING.

TECHNICAL CLASSES HAVE BEEN IN FULL SWING AGAIN THIS YEAR AND I HAVE 7 STUDENTS WHO ARE ALL DETERMINED TO PASS THE EXAM FIRST TIME. I WISH YOU ALL THE VERY BEST OF LUCK. THE FIRST OF THE MULTIPLE-CHOICE EXAMS WAS HELD IN MAY, AND BILL ZR2AAN WAS THE FIRST TO EXPERIENCE THIS NEW SYSTEM - WITH THE BEST-POSSIBLE RESULTS - WELL DONE, BILL.

LAST, BUT CERTAINLY NOT LEAST, I MUST MENTION, AND THANK, ALL THE NON-BRANCH-MEMBERS WHO ASSISTED US AT VARIOUS TIMES DURING THE YEAR. IT IS A GREAT FEELING TO KNOW THAT THERE ARE NON-MEMBER AMATEURS IN THE AREA WHO THINK ENOUGH OF US TO OFFER THEIR HELP WITH OUR UNDERTAKINGS, AND ATTEND OUR

MEETINGS REGULARLY. A VERY WARM THANK-YOU TO ALL OF YOU, AS WELL AS TO THE BRANCH COMMITTEE MEMBERS AND OTHER MEMBERS WHO HAVE SO ABLY ASSISTED ALL YEAR THROUGH - IT IS DIFFICULT TO MENTION EACH OF THE MANY INDIVIDUALLY BUT YOU KNOW WHO YOU ARE, AND I KNOW THAT THE BRANCH CAN CONTINUE TO COUNT ON YOUR HELP.

BEST 73.

*Brian Weller*

BRIAN WELLER ZS2AB

## Letter from the Editor.

AS "LETTERS TO THE EDITOR" ARE VERY FEW AND FAR BETWEEN, I THOUGHT THAT FOR THIS ISSUE, I WOULD WRITE ONE TO YOU THE READER OF THIS LITTLE NEWSLETTER. PRODUCING IT IS SOMETHING I REALLY ENJOY DOING, ALTHOUGH I MUST ADMIT SOMETIMES TO HAVING TO DO A LOT OF HEAD-SCRATCHING AND MAGAZINE-HUNTING FOR ARTICLES WHICH I HOPE WILL BE OF INTEREST. AS MANY OF THE READERS ARE NOT OPERATING AMATEURS OR NOT IN THE GROUP WHICH DO HOME CONSTRUCTION OR EXPERIMENTATION, I TRY TO GET IN AT LEAST ONE ARTICLE OF GENERAL INTEREST, POSSIBLY RELATED TO RADIO OR SIMILAR ALLIED TOPICS. I OFTEN WONDER WHETHER MEMBERS FIND THE NEWSLETTER OF ANY INTEREST AS THERE IS SELDOM MUCH COMMENT - HOW MANY WOULD REALLY MISS IT IF WE DIDN'T SEND IT EACH MONTH? HOW MANY READ IT? OR IS IT JUST THROWN ASIDE AS SO MUCH MORE *JUNK MAIL*? PERHAPS YOU FEEL THAT BEING A YL (ALL RIGHT - SORRY - XYL) I AM NOT QUALIFIED TO HANDLE ANYTHING LIKE A TECHNICAL RADIO ARTICLE? I DON'T REALLY HAVE TO, YOU KNOW - WHAT ABOUT ALL YOU CLEVER PEOPLE OUT THERE WHO ARE DOING THINGS THAT OTHERS WOULD LIKE TO HEAR ABOUT AND PERHAPS ALSO GET INVOLVED IN? DON'T BE A SECRET SOCIETY - TELL US ALL ABOUT IT. LET US HAVE ORIGINAL ARTICLES WHICH WILL MAKE QSOX INTERESTING - OR IS THAT REALLY EXPECTING TOO MUCH? IF ANYONE FEELS THEY WOULD LIKE TO TAKE OVER AS EDITOR I WOULDN'T FEEL OFFENDED IF THEY OFFERED, ALTHOUGH I AM PERFECTLY HAPPY TO CONTINUE THE STATUS QUO. I WOULD LIKE TO THANK THOSE WHO HAVE SENT IN ARTICLES, JOKES AND LITTLE SNIPPETS OF INFORMATION, IT HAS HELPED TERRIFICALLY. MANY THANKS ARE EXTENDED TO THE ADVERTISERS WHO HAVE MADE SUCH A VALUABLE CONTRIBUTION TO OFF-SETTING THE COST OF PRINTING, WITHOUT THEM WE WOULD PROBABLY NOT BE ABLE TO CONTINUE PRODUCING QSOX - PLEASE SUPPORT THE ADVERTISERS. MANY THANKS ALSO TO ROBIN AND SYLVIA DUNSTAN OF INSTANT PRINTING WHO CONTINUE TO DO A GOOD JOB OF THE PRINTING EVEN WHEN THEY ARE SOMETIMES VERY BUSY BUT ALWAYS HAVE IT DONE ON TIME. AND LAST BUT NOT LEAST, THANKS TO BRIAN FOR HIS PROOF-READING, COLLATING AND ALL THE LAST MINUTE BITS AND PIECES TO BE DONE BEFORE IT IS FINALLY PUT IN THE POST ON A MONDAY MORNING. REGARDING WHAT I SAID EARLIER, I DON'T EXPECT PHONECALLS FROM EVERYONE SAYING HOW GREAT QSOX IS, BUT HOPEFULLY THERE IS SOMETIMES SOMETHING OF INTEREST FOR SOME OF YOU!

73/88 YOUR EDITOR, MARGE ZS2OB.


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INCOME AND EXPENDITURE STATEMENT AS AT 87.06.30

PAGE 7

INCOME

EXPENDITURE

Opening balance at 86.07.01	3 462,96
HQ share of subs	2 565,00
HQ entry fees	195,00
Branch share of subs	1 023,00
Social members subs	65,00
Advertisements in QSX	165,00
Refreshments at meetings	128,06
Sale of video tapes and books	260,00
Donations	20,00
Sale of parts	166,95
Sale of QSL stickers and log books	84,00
Sale of shirts	22,00
Sale of equipment ex ZS2FA	1 305,00
DTE refund	19,23
Raffle	60,00
Motor rallys	987,90
Income from party	400,00
Interest received on savings and FDR	436,97
Part payment of subs	30,00

Closing balance at 87.06.30	1 637,12
Fixed Deposit	2 072,98
HQ subs and entrance fees	2 652,00
HQ OSL stickers and books	299,80
Electricity (L.Slipp)	148,97
Printing and stationery	637,87
Qsx postage and stamps	197,79
Bank charges on cheques UBS	5,50
Post box rental	37,50
Hire of hall	170,00
Refreshments for branch meetings	15,80
Donations	31,20
Catering - AGM childrens party and branch party	628,13
VW rally - 1986 petrol payout	47,90
Special licences	60,00
Bushire for trav. supper	82,00
Refund - overpayment of subs	15,00
Payment to estate late ZS2FA	2 109,00
Parts	68,90
Delegates travelling expense to AGM	313,50
Float - to secretary	174,11

CORRECTION: ENTRIES (CONTRA) 33,08

CORRECTION: ENTRIES (CONTRA) 33,08

R11 429,15

R11 429,15

AUDITED AND DECLARED CORRECT:

*[Handwritten Signature]*  
ZS2M/C

*[Handwritten Signature]*  
ZS2M/M

HONORARY AUDITOR

HONORARY TREASURER

# Radiation from VDU's Negligible.

EXPERIMENTS AND SURVEYS REGARDING HEALTH COMPLAINTS RECEIVED FROM USERS OF VISUAL DISPLAY UNITS (VDU'S) HAVE SHOWN THAT FACTORS OTHER THAN HARDWARE CHARACTERISTICS AFFECT HEALTH.

IN AN ARTICLE IN *PRODUCTIVITY S.A.* PUBLISHED BY THE NATIONAL PRODUCTIVITY INSTITUTE, BOB BRIDGER SAID: "ALTHOUGH THERE IS NO EVIDENCE OF PERMANENT DAMAGE TO HEALTH AS A DIRECT RESULT OF WORKING WITH VDU'S, THERE IS PLENTY OF EVIDENCE FOR PSYCHOLOGICAL DAMAGE AND MINOR PHYSICAL DISCOMFORT.

BRIDGER IS HEAD OF THE ERGONOMICS GROUP AT U.C.T. MEDICAL SCHOOL'S DEPARTMENT OF BIOMEDICAL ENGINEERING. RADIATION, VISUAL AND POSTURAL PROBLEMS ARE THE MAIN HEALTH ISSUES AMONG VDU USERS. ALTHOUGH RADIATION IS THE MOST PUBLICISED ISSUE, MEASUREMENTS OF THE LEVELS OF IONISING AND NON-IONISING RADIATION FROM VDU'S HAVE SHOWN THAT IT IS NEGLIGIBLE. REPORTS OF MISCARRIAGES, CATARACTS AND FACIAL RASHES HAVE OFTEN BEEN ATTRIBUTED TO THE RADIATION, YET NO SCIENTIFIC EVIDENCE HAS BEEN PRODUCED TO PROVE THIS, THE ARTICLE SAYS.

COMPLAINTS OF EYE IRRITATION AND HEADACHES ARE USUALLY RELATED TO SCREEN FLICKER, CHARACTER LEGIBILITY AND THE VISUAL ENVIRONMENT. ALTHOUGH EYE-STRAIN MAY BE CAUSED BY VDU'S, OTHER LIGHT SOURCES IN THE ENVIRONMENT SHOULD BE TAKEN INTO CONSIDERATION. BRIDGER SAID THAT OFFICE LIGHTING SHOULD BE CAREFULLY CHOSEN AND ONLY VDU'S WITH EASILY ACCESSIBLE BRIGHTNESS CONTROLS SHOULD BE USED. ADDITIONALLY, REGULAR REST BREAKS OR THE INCLUSION OF NON-VDU WORK MAY HELP TO MINIMISE FATIGUE WHICH CAN ALSO FACILITATE THE PERCEPTION OF FLICKER" SAID BRIDGER.

AS VDU CHARACTERS ARE AS SHARP AS THOSE ON PRINTED PAPER, CHARACTER LEGIBILITY COULD BE AN IMPORTANT CONSIDERATION. THEIR COLOUR MAY BE IMPORTANT, SO YELLOW/GREEN IS ADVISED AS BEING THE OPTIMAL COLOUR.

BRIDGER SAID THAT THE VDU ITSELF MAY NOT BE THE CAUSE FOR EYE-STRAIN, BUT RATHER ITS INTERACTION WITH THE SURROUNDING ENVIRONMENT. THE TREND IS TO USE MORE DIFFUSE LIGHTING (REAL OR ARTIFICIAL DAYLIGHT) AND A PROVISION SHOULD BE MADE FOR "VISUAL RELIEF" SUCH AS LOOKING OUT OF THE WINDOW. HE ALSO SUGGESTS THAT MANAGEMENT SHOULD ARRANGE FOR EYE-TESTING OF PROSPECTIVE VDU USERS.

## TREATMENT.

POSTURAL FIXITY, THE STATIC POSTURES PARTICULARLY OF THE HEAD AND TRUNK, WHICH RESULT IN BACK PAIN ARE COMMON IN SOME INTENSE VDU TASKS SUCH AS DATA ENTRY. THEREFORE THE "USE OF HIGHLY ADJUSTABLE CHAIRS FEATURING HIGH BACKRESTS AND TILTABLE SEATS ARE RECOMMENDED, AS ARE FREQUENT REST PAUSES AND THE INCLUSION OF NON-VDU TASKS". REPETITION STRAIN INJURIES OFTEN OCCURRING IN THE WRISTS, ARMS OR SHOULDERS OF A VDU WORKER, CAN BECOME QUITE SERIOUS IF NOT TREATED AT AN EARLY STAGE.

"TO FACILITATE PREVENTION, THE INVOLVEMENT OF COMPANY MEDICAL STAFF IN THE DESIGN AND EVALUATION OF NEW, INFORMATION INTENSE SYSTEMS IS CLEARLY DESIRABLE", SAID BRIDGERS. ALTHOUGH IT HAS NOT YET BEEN PROVED, THIS ADDITION TO THE OFFICE MAY CAUSE WORKER RESENTMENT AT HAVING THEIR JOBS CHANGED, MAY CAUSE THEM TO FEEL AT A LOSS WITH THE NEW TECHNOLOGY AND MAY CAUSE THEM TO FEEL THAT THEIR OWN JOBS ARE IN JEOPARDY - RESULTING IN EXAGGERATED COMPLAINTS ABOUT THE EFFECTS OF VDU'S. "IN PRINCIPLE, THERE IS NO REASON WHY OPERATING A VDU SHOULD BE ANY MORE HAZARDOUS THAN OPERATING ANY OTHER BUSINESS MACHINE," SAID BRIDGER.

BY JERINI BAXTER FROM *COMPUTING S.A.*



# C.W. INTEREST GROUP.

IN RESPONSE TO SEVERAL ENQUIRIES AND SUGGESTIONS FROM THOSE RADIO AMATEURS WHO HAVE INDICATED A DESIRE/PREFERENCE FOR CW OPERATING ON THE AMATEUR BANDS, A CONTINUOUS WAVE INTEREST GROUP (C.W.I.G.) IS BEING LAUNCHED. IN SO DOING, IT IS HOPED TO FOSTER ANY AND ALL OF THE FOLLOWING:

- (1) PROMOTE - MORSE CODE COMMUNICATING.
- (2) SUPPORT - INTERNATIONAL CW INTEREST GROUPS AND PROGRAMMES.
- (3) PROVIDE - ON THE AIR PRACTICE.
- (4) ASSIST - NEWLY LICENSED AMATEURS.
- (5) ENCOURAGE - CW SKILLS AND TECHNIQUES.
- (6) CREATE - CW CONTACTS ON 40 AND 30 M.

**WEEKLY SKEDS:**

TO PROVIDE A KNOWN SOURCE OF ACTIVITY FOR BOTH NEWCOMERS AND HI-SPEED OPERATORS.

0900 TO 0930 SAST ON 7.020 MHZ EVERY SUNDAY MORNING

(EXTENDABLE ON DEMAND)

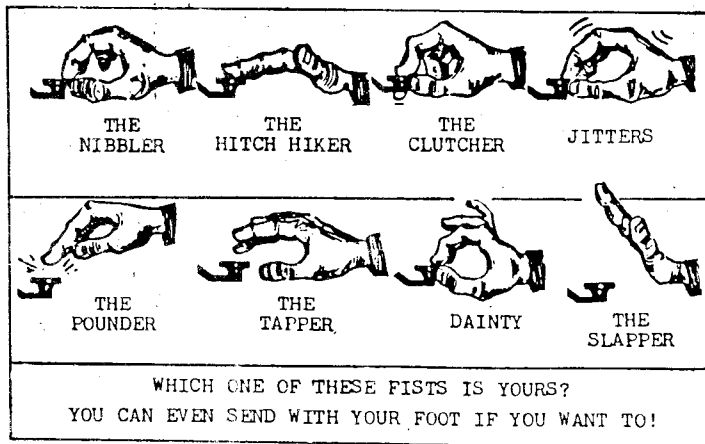
LISTEN FOR "CQ CQ DE ZS1VP ZS1VP QSK"

CALLS MAY BE MADE WHILST CQ CALL IS RUNNING.

BASE SPEED WILL BE 12 WPM, QRS/QRO AS REQUIRED.

IF YOU ARE INTERESTED IN ANY OF THE ABOVE AND HAVE A GENUINE DESIRE IN USING AND PROMOTING CW MODE OF OPERATING, PLEASE CALL IN ON THE ABOVE SKEDS REGULARLY, OR CONTACT ZS1VP BUCK TAYLOR, P.O. BOX 108, BRACKENFELL, CAPE TOWN 7560.

LISTENERS ARE ENCOURAGED TO PARTICIPATE IN THE SWL/CWIG, BY MONITORING THE TWO FREQUENCIES AND SENDING IN REPORTS AND LOG SHEETS.



**WANTED.**

BY DUDLEY FORSYTH ZS2AW, 10 CROMWELL STREET, GRAHAMSTOWN - A H.F. LINEAR AMPLIFIER IN ANY CONDITION. PLEASE CONTACT DUDLEY IF YOU HAVE ONE TO OFFER.

# LIFE AFTER 40.

HOW TO KNOW YOU'RE GROWING OLDER.

EVERYTHING HURTS AND WHAT DOESN'T HURT, DOESN'T WORK.

THE GLEAM IN YOUR EYES IS FROM THE SUN HITTING YOUR BIFOCALS.

YOU FEEL LIKE THE NIGHT BEFORE AND YOU HAVEN'T BEEN ANYWHERE.

YOUR LITTLE BLACK BOOK CONTAINS ONLY NAMES ENDING IN M.D.

YOU GET WINDED PLAYING CHESS.

YOUR CHILDREN BEGIN TO LOOK MIDDLE-AGED.

YOU JOIN A HEALTH CLUB AND DON'T GO.

YOU BEGIN TO OUTLIVE ENTHUSIASM.

YOUR MIND MAKES CONTRACTS YOUR BODY CAN'T MEET.

YOU KNOW ALL THE ANSWERS, BUT NOBODY ASKS THE QUESTIONS.

YOU LOOK FORWARD TO A DULL EVENING.

YOUR FAVOURITE PART OF THE NEWSPAPER IS 25 YEARS AGO TODAY.

YOU SIT IN A ROCKING CHAIR AND CAN'T GET IT GOING.

YOUR KNEES BUCKLE AND YOUR BELT WON'T.

YOU REGRET ALL THOSE MISTAKES RESISTING TEMPTATION.

YOU STOP LOOKING FORWARD TO YOUR NEXT BIRTHDAY.

DIALING LONG DISTANCE WEARS YOU OUT.

YOUR BACK GOES OUT MORE OFTEN THAN YOU DO.

A FORTUNE TELLER OFFERS TO READ YOUR FACE.

YOU TURN OUT THE LIGHT FOR ECONOMIC REASONS RATHER THAN ROMANTIC ONES.

YOU REMEMBER TODAY THAT YESTERDAY WAS YOUR WEDDING ANNIVERSARY.

YOU ARE STARTLED THE FIRST TIME YOU ARE ADDRESSED AS "OLD TIMER".

YOU BURN THE MIDNIGHT OIL AFTER 9.00P.M.

YOU SINK YOUR TEETH INTO A STEAK AND THEY STAY THERE.

YOUR FACEMAKER MAKES THE GARAGE DOOR GO UP WHEN YOU SEE A PRETTY GIRL.

YOU GET YOUR EXERCISE ACTING AS A PALLBEARER FOR YOUR FRIENDS WHO DID EXERCISE.

THE BEST PART OF YOUR DAY IS OVER WHEN YOUR ALARM GOES OFF.

THANKS TO TREVOR Z52AE FOR THIS.



## Positiv 20

Photo copying paint for the POSITIVE PROCESS production of printed circuits for technicians and amateurs, concerned with the production of single, or small series printed circuits.

Transparent drawings of printed circuits can be copied directly on to a board coated with POSITIV 20. The high resolution gives clear sharp edges. A large exposure range provides the required safety.

aerosol spray can 200 ml



## Kontakt WL

Efficiently cleans and degreases badly soiled electrical equipment and electronic components without attacking constructional materials. Aids the excellent cleaning effect of KONTAKT 60 by rapid removal of dissolved oxide particles. Even the smallest relay contact points are perfectly cleaned. Also with detachable spray nozzle.

aerosol spray can 400 ml

## Graphit-Spray 33

Provides conductive and high resistance coatings direct from the spray can. Its uses include the repair and renovation of damaged screens of cathode ray tubes. Eliminates static charges, acts as an effective screen and provides conductive surfaces on non-conductive materials.

aerosol spray can 400 ml

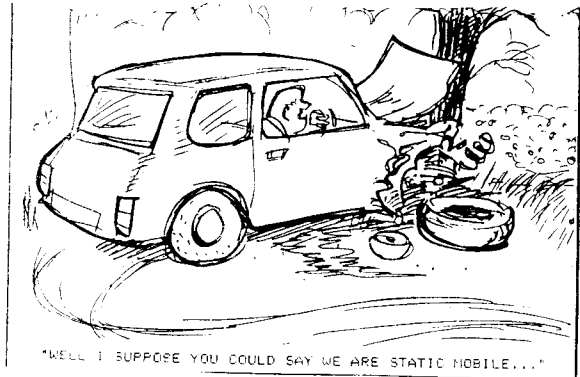
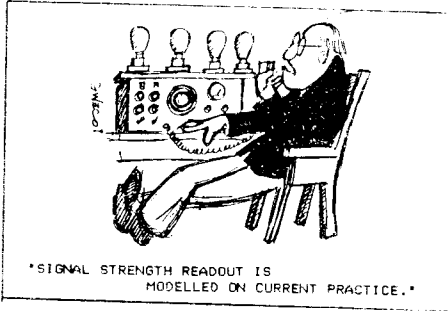
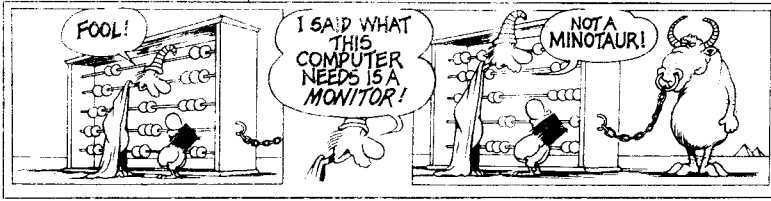


## Soldering Lacquer SK 10

A new protective and coating lacquer which acts as an excellent soldering agent particularly suitable for printed circuits and many other applications in the electronic field. SK 10 prevents the oxidation of platinum and is equally suitable for both surface and production application.

aerosol spray can 400 ml

For more details of these and other KONTAKT products,  
phone Brian Grant on (041) 73-2072



We present an aerial eyeful of that ethereal earful, W1AW, ARRL headquarters station, shot by Staff Photographer Frank Beaudin while flying at 600 feet. To the rear of the W1AW building are the five 65-foot antenna poles and the feed-line supports. The station occupies a 7-acre site at Newington, Conn., 4 miles from Hq.

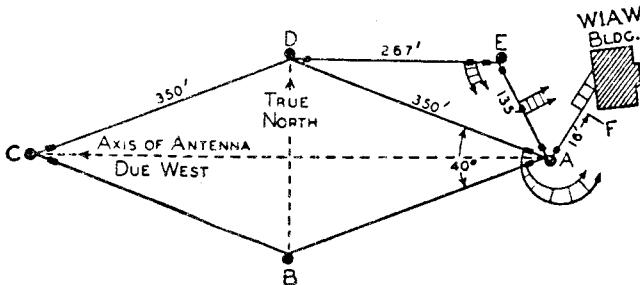


Diagram of W1AW antennas: AE, 3.5 Mc.; DE, 7 Mc.; AF, 28 Mc.; ABCDA, rhombic used mainly on 14 Mc. A 50-Mc. horizontal "Q" is mounted atop Pole E.



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