

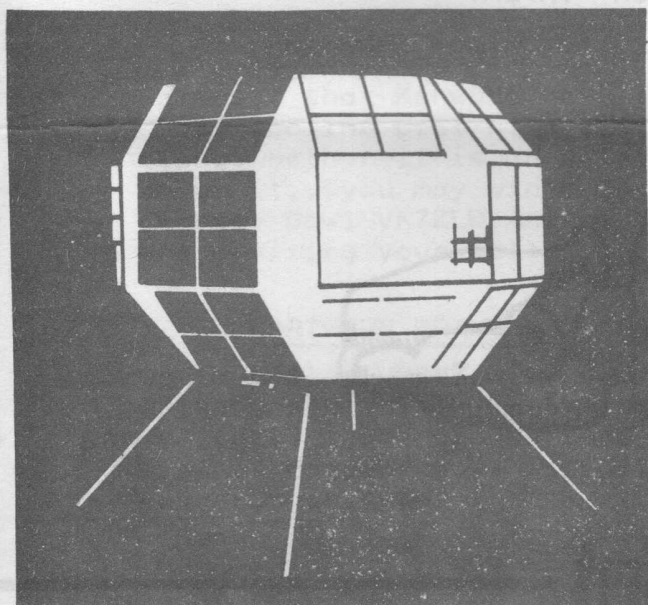
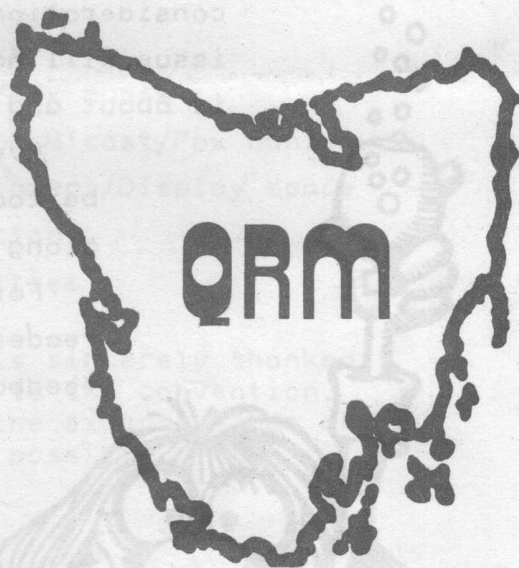
TASMANIAN AMATEUR RADIO

P.O. BOX 275
LAUNCESTON
TAS. — 7250

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Category B

Vol 9 no 8

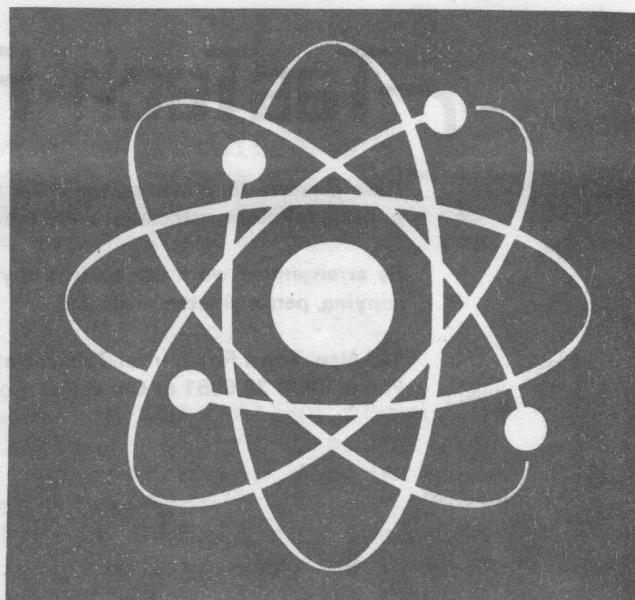
Bulletin issued by the North, North West and
Southern Branches of the Wireless Institute
of Australia, Tasmanian Division



TARC 79

LAUNCESTON

NOV 17 ~ 18



EDITORIAL

This month, QRM has been used to include the full programme for TARC 79 ; which is, for the uninitiated, a gathering of amateurs, listeners and any interested persons, with activities for all the family.

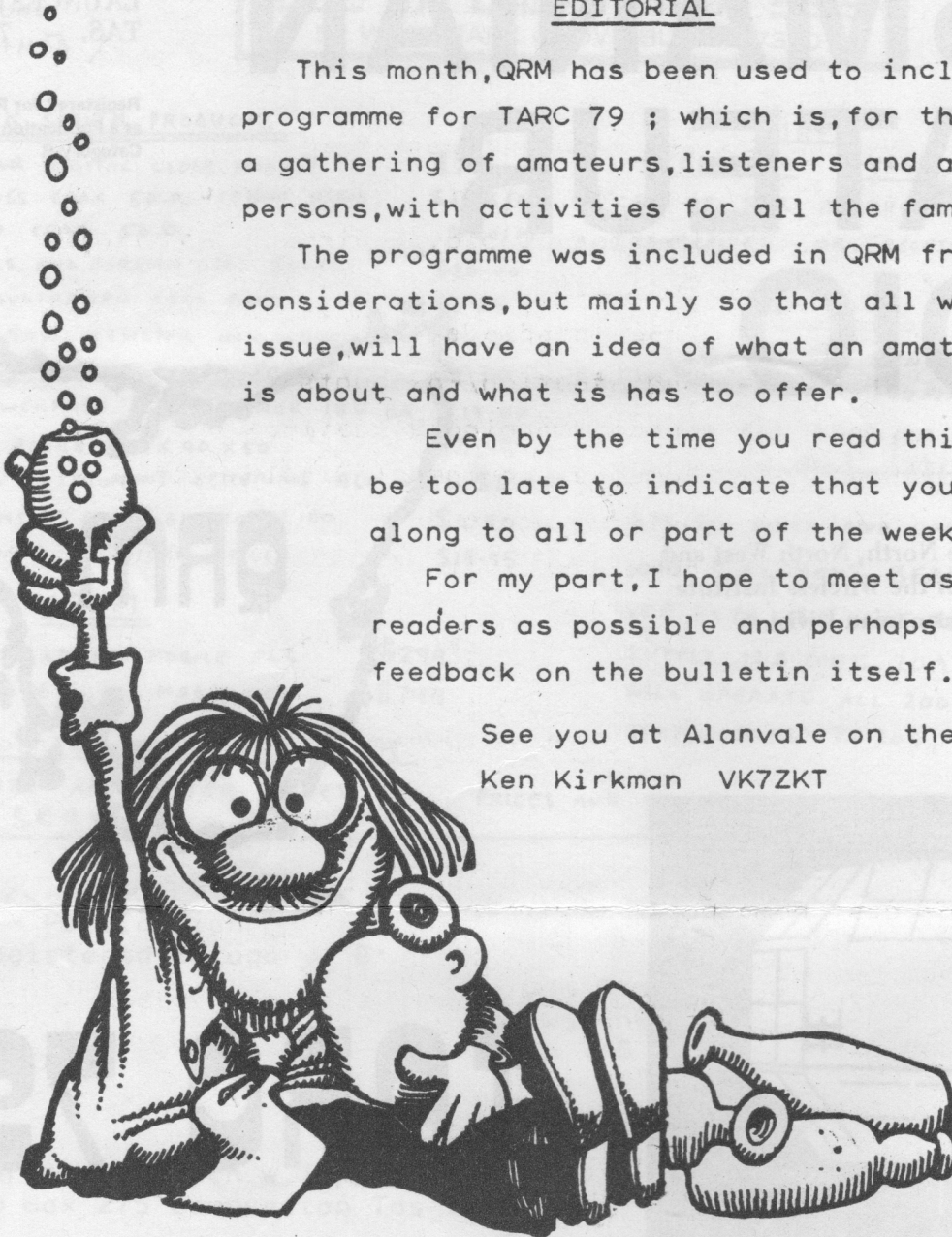
The programme was included in QRM from financial considerations, but mainly so that all who read this issue, will have an idea of what an amateur convention is about and what it has to offer.

Even by the time you read this, it would not be too late to indicate that you wish to come along to all or part of the weekend.

For my part, I hope to meet as many of QRM's readers as possible and perhaps receive some feedback on the bulletin itself.

See you at Alanvale on the 17th.

Ken Kirkman VK7ZKT



TasTech Print

Have pleasure in providing the cover for this month's QRM. We specialize in all types of small offset printing for clubs, associations and other public and private organizations.

By arrangement work can be sent anywhere in the State. Try us for QSL cards, circuit and handbook copying, personal letterheads, etc.

105 New Town Road, (near Talbot Hotel) New Town, Tas.
Phone (002) 28 6351 or C/o G.P.O. Box 215C, Hobart. 7001.

TARC 79

ORGANISING COMMITTEE

Reg Emmett	- Co-ordinator/workshops
Graeme Reardon	- Saturday evening dinner dance
David Bailey	- Magpubs display/Equipment Store
Ken Kirkman	- Publicity
Ian Clements	- Trade displays
Les Harper	- Registration/Fox hunts
Brian Yeoman	- Sunday morning B'cast/Fox hunts
Lindsay Dowl	- Homebrew Equipment/Display space
Tony Polowy	- Antenna erection
Ed Hewens	- Family activities

The Northern Branch Ladies Committee is sincerely thanked for its fund raising activities prior to the convention. The funds raised will help to defray the expenses that are incurred and help to make the weekend possible.

HOME BREW EQUIPMENT

Remember that Kenwood have donated a trophy and an annual prize for the best home built equipment...Bring your best along, whether it is an original design or kit form and enter it...you may win a 24 hour clock.

Lindsay Dowl VK7ZLD, Andrew Boon VK7AW or Paul Blake VK7ZPB are awaiting your call.

NORTHERN BRANCH EQUIPMENT STORE

David Bailey VK7YY will be manning the store over the weekend and this will include a display of books that are available from Magpubs thru your local Branch. A complete list of Magpub books is included in this issue of QRM for your convenience.

WORKSHOP / SEMINARS

Although many of you will be coming to socialise, or to look over the new equipment on display, we are this year, offering a further choice. Workshop/Seminar sessions will give you the chance to hear from experts on various topics.

REFRESHMENTS/SUNDAY LUNCH

A canteen will be operating during the Convention, providing a variety of drinks and eats...Cost of morning tea and afternoon tea is included in your registration. Just present your registration sticker to the cafeteria.

Due to catering requirements, definite numbers for lunch on Sunday, must be known by Wednesday 14th November. Convenor for catering requirements is Annette Emmett.

PROGRAMME FOR THE WEEKENDSATURDAY 17th November

12 Midday	VK7NB begins operation on Repeater 8 and 28.550.
1.00 PM	Registration available.
2.00 PM to 4.45 PM	Convention displays open to the general public.
3.00 PM	Official opening.
3.15 PM	Workshop ; Reading schematics by Brian Yeoman, VK7ZBY.
3.45 PM	Workshop ; Amateur television with Tony Bedelph, VK7AX
4.15 PM	Workshop ; Photo-etching printed circuit boards with Graham Rand, VK7AQ.
6.30 PM	Pre-dinner drinks at Riverside Council chambers.

SATURDAY EVENING DINNER DANCE

The evening function will be held at the Riverside Council chambers ; which is on the opposite side of town to Alanvale College..The evening will begin around 6.30 and finish at 11.30.

The meal is to be Smorgasbord style ; 3course with soup, choice of casseroles with vegetables and rice and a choice of sweet followed by tea or coffee. It is hoped to finish the meal at around 8.30, then on with the dancing.

Dinner music and 50-50 dance music will be provided by "Roscoe" at a level hopefully to satisfy all. Drinks will be provided throughout the evening, with the total cost being included in the Registration fee.

SUNDAY 18th November

9.30 AM	Official WIA Broadcast
10.30 AM to 11.30 AM	Fox Hunts ; 2 metre channel 40 only
10.30 AM	Workshop ; RTTY with Tom Moffat, VK7TM
	or
10.30 AM	Using Scotchcal with Roger Woolley
11.00 AM	Opportunity for Trade exhibitors to give practical demonstrations of equipment.
11.30 AM	WICEN with Andrew Boon, VK7AW.
12 Midday	Break for lunch ; (included in Reg fee)
1PM to 2PM	Fox hunts ; 2 metre channel 40 only.
1.00 PM	Workshop ; Microprocessors with P Frith.
2.00 PM	Equipment auction and Presentation.

ADDITIONAL ACTIVITIES FOR THE FAMILY

SATURDAY 17th November

Keep fit with Jazz ballet and Disco dancing lessons with Dianne Yeoman.

Childrens games throughout the afternoon will be organised at the following times ;

- | | | |
|---------|-------------------------------|-------------------------|
| 2.00 PM | ; Game - "Under the broom". | "STOP PRESS" |
| 2.30 PM | ; Scavenger hunt. | The "LIFE BE IN IT" |
| 3.00 PM | ; Film - Disney cartoon film. | team will be present to |
| 3.30 PM | ; Game - "Apple Dangle". | assist. |
| 4.00 PM | ; Mixed games | |

SUNDAY 18th November

Morning ; At your leisure . Either help with the kids or visit ;

Evandale Market and Surrounds

Earls Court Bazaar

Penny Royal Complex

Design Centre

Afternoon ; There will be Flower arranging and Macrame to participate in..make a hanging basket holder with macrame.

Displays ; There will be displays including cosmetics, pottery, kitchenware and cleaning products.

Childrens Games

- 11.00 AM ; Kite Making with materials provided.
- 1.00 PM ; Magic show with a guest Magician.
- 1.30 PM ; Fancy Dress (costumes will come from old or outgrown clothes donated by the parents which will be given to charity after TARC.)
- 2.00 PM ; Treasure Hunt

There will be prizes, free balloons and whistles, guessing games and a lucky key dip as well.



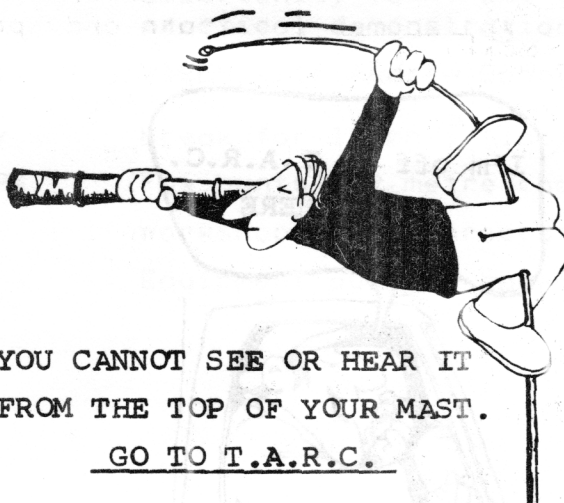
CONVENTION DISPLAYS

TRADE DISPLAYS

- | | |
|-------------------------------------|---|
| ADVANCED ELECTRONICS | ; Launceston's Dick Smith outlet, Kenwood equipment, Sordcor and Pet computers. |
| GELSTON COMMUNICATIONS | ; Agent for Vicom, lessey, Scalar and stockist of Beldon co-ax. |
| J.D.ELECTRONICS | ; Distributor for all Yaesu Muesen amateur equipment. |
| ASSOCIATED AGENCIES | ; Agents for Heath amateur and computer equipment, Also BWD test equipment. |
| ENERGY AND ELECTRONICS | ; Agents for Tandy kits, electronic products and microprocessors. |
| W.P.MARTIN | ; State distributors for Acme co-ax connectors and Beldon co-ax. |
| TECHNICAL BOOK and MAGAZINE COMPANY | ; Selection of technical books that will be available for sale. |
| MANAGEMENT TECHNOLOGY | ; Hobart distributor for Computerland and Anderson computer products. |

AMATEUR DISPLAYS

- | | |
|----------------------|------------------------------|
| SLOW SCAN TELEVISION | ; Tony Bedelph and Bob Grant |
| HOME BREW EQUIPMENT | ; Convened by Lindsay Dowl |
| MICROPROCESSORS | ; Peter Frith |
| WICEN/SES | ; Andrew Boon |
| RTTY | ; Tom Moffat |
| MAGPUBS | ; David Bailey |
| ARMY COMMUNICATIONS | ; Les Harper |
| EQUIPMENT STORE | ; Northern Branch |
| VK7NB STATION | ; Brian Yeoman |



YOU CANNOT SEE OR HEAR IT
FROM THE TOP OF YOUR MAST.

GO TO T.A.R.C.

NORTHERN BRANCH OPERATING STATION VK7NB

The club station VK7NB will be operating from the TARC site on a number of amateur bands, from 1200 hrs on Saturday the 17th until the close on Sunday...The official Sunday morning news broadcast will also originate from this location.

Equipment operating under the call VK7NB will be ;

80 metres ; The transceiver used on this band will be the Branch's latest equipment purchase, namely a TS120V..The antenna to be used will be an 80 metre inverted vee.

40 metres ; The equipment for this band will be either a FT101, TS520 or TS820 using a 40 metre inverted vee for antenna.

20,15,10 metres ; These bands will be operated from a TS520 and will use a TH3 triband yagi.

10 metres ; There will be a transceiver operating on the frequency of 28.550 MHz USB..Talk in facilities will be available on this band from 1200 hrs on the Saturday.A ten metre Ringo antenna will be used for this purpose.

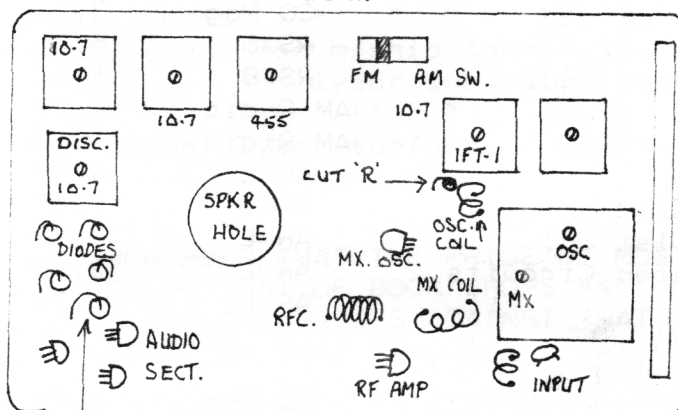
2 metres ; The equipment to cover this band will be the club's IC22S or similar with a 2 metre Ringo antenna..Talk-in on this band also.

Other equipment and bands may be operating as required.

MODIFICATIONS TO AM/FM RADIO FOR 2 Metre FM USE

(Particularly useful at TARC foxhunts)

CCT. BOARD



10K. CUT & INSERT METER IN SERIES.

VK7ZRF
VK7ZBY
VK7PF

Frequency conversion

Input coil ; cut, leave 2 turns and spread.

Mixer coil ; cut out .75 turn and spread.

Osc.coil ; spread approx 0.5 inch.

Cut damping resistor on IFT 1 and retune.

On some sets with low sensitivity, remove 5 turns from RFC.

Sensitivity should be about 5uV.

MAGPUBS BOOK AND MAGAZINE LIST

A complete list of books and magazines that are available from Magpubs, which is a service provided by the WIA Federal Division and can be ordered thru your local Branch, is included here. There will be a display of available books at Alorvale College, which is the venue for this years Hamfest (TARC 79). Unfortunately it is not possible to provide a sample of all the books on the list, mainly owing to delays in shipping from England and the SA of those that Magpubs do not have in stock. There will be a display of most of the popular books to peruse and if any copies required, then an order can be placed at TARC. The Northern Branch Equipment Officer, David Bailey will be there to service your needs. The books on display can be purchased, although it is preferred not to remove them from the display till the end of the Convention.

GENERAL AND BEGINNER		Publisher	Price+p/p
Understanding Amateur Radio		ARRL	5.70
A Course in Radio Fundamentals		ARRL	4.70
Guide to Amateur Radio (G3VA) 16th Ed.		RSGB	2.80
Better Shortwave Reception		R. Pub.	4.55
Morse Code for the Radio Amateur 6th Ed.		RSGB	0.75
Radio Amateur License Manual		ARRL	3.80
Radio Amateur Exam Manual 7th Ed.		RSGB	2.60
Radio Amateur Exam Revision Notes		RSGB	1.55
Let's Talk Transistors		ARRL	1.20
Ham Radio Operating Guide		ARRL	4.95
Questions and Answers		RSGB	3.40
Basic Training Manual		NZART	2.95
NZART Basic Training Course		NZART	3.30
GENERAL/REFERENCE			
Handbook (paper cover) 1979 Ed.		ARRL	11.30
Radio Communications Handbook Vol.1		RSGB	16.95
Radio Communications Handbook Vol.2		RSGB	14.50
World at their Fingertips (G6CL)		RSGB	1.60
Hints and Kinks for the Radio Amateur		ARRL	4.40
Shop and Shack Shortcuts		CQ Mag	4.00
Amateur Radio Techniques 8th Ed.		RSGB	6.75
Test Equipment for the Radio Amateur 2nd Ed.		RSGB	7.55
Electronic Circuits Handbook No1		CQ Mag	3.00
Electronic Circuits Handbook No2		CQ Mag	3.00
Radio Data Reference Book 4th Ed.		RSGB	5.20
Service Valves and Semiconductor Equiv.		RSGB	1.35
Ham Notebook Vol.1		HAM Radio	4.70
Ham Notebook Vol.2		HAM Radio	4.70
Electronics Data Book		ARRL	4.95
Solid State Design		ARRL	7.95
Radio Frequency Interference 1st Ed.		ARRL	3.70
Learning to Work with Integrated Circuits		ARRL	2.90
Solid State Basics 1st Ed.		ARRL	5.70
SPECIFIC SUBJECTS			
Vertical Antenna Handbook		CQ Mag	4.95
Antenna Book (very good value)		ARRL	5.50
Wire Antennas for Radio Amateurs		R. Pub.	4.55
Antenna Roundup		CQ Mag	3.00
Radio Amateurs Antenna Handbook		R. Pubs	5.30
Antenna Handbook Vol.1		CQ Mag	4.05

SPECIFIC SUBJECTS (cont)

	Publisher	Price+p/p
Beam Antenna Handbook (Orr) 5th Ed.	R.Pubs	4.55
All About Cubical Quads (Orr)	R.Pubs	4.00
SSB for the Radio Amateur	ARRL	4.95
FM and Repeaters for the Radio Amateur	ARRL	4.95
ATV in a Nutshell		6.30
Oscar-Amateur Radio Satellites	RSGB	9.90
Satellite Communications	ARRL	5.50
Radio and TV Interference	FCC	2.60
NBFM Manual	RSGB	2.50
VHF/UHF Manual 3rd Ed.	RSGB	11.95
Radio Amateurs VHF Manual	ARRL	4.95
VHF Handbook for Radio Amateurs	R.Pubs	5.10
Guide to Amateur TV	CQTV	4.20
Slow Scan TV	CQTV	0.85
New RTTY Handbook	CQ Mag	4.05
RTTY A to Z	CQ Mag	4.95
Teleprinter Handbook	RSGB	15.60
Amateur Radio Awards	RSGB	3.50
Radio Amateur World Atlas 9th Ed.	RAC	2.50
1979 Foreign Call Book	RAC	14.10
1979 USA Call Book	RAC	14.95
Call Book (RSGB)	RSGB	5.75
NZART Call Book 1978	NZART	2.95
DX Guide	RAC	2.80

MISCELLANEOUS BOOKS

De-Luxe Log Book	RSGB	7.00
Standard Log Book	RSGB	1.95
Mobile Mini Log	RSGB	1.50
Log Sheets (per 100)	WIA	2.00
SWL's Log Book	RSGB	2.50
WIA Log Book	WIA	2.50
Binder for VHF Comms		2.75
Radio Amateur Map of the World	RAC	1.40

MAGAZINE SUBSCRIPTIONS

Break In	1year sub	\$11.00	
Ham Radio	" " "	15.50	
"73"	" " "	24.50	
Radio Comms	" " "	19.00	
CQ TV (send for m/ship form)		4.50	
"QST"	1year sub	\$18.75	
"CQ"	" " "	8.00	2year sub \$13.80
VHF Comms	1year surface	8.20	Single Issues Available

REMEMBER THAT THE PRICE OF MOST OF THESE BOOKS IS WELL BELOW THAT OF BOOK SHOPS AND MAIL ORDER OUTLETS...JUST CHECK THE PRICES AGAINST THAT OF A WELL KNOWN ELECTRONICS FIRM THAT PRODUCES A CATALOGUE.....

ADVANCED ELECTRONICS

5A THE QUADRANT, LAUNCESTON, TASMANIAN, 7250 — P.O. BOX 328 — PHONE: 31 7075

BUILD A PROJECT... CAPACITOR DISCHARGE IGNITION from a Dick Smith kit

SINE AND SQUARE WAVE OSCILLATOR

New simple design!

SEE E.A. JUNE 1978

An essential piece of test gear for the serious hobbyist. Covers frequencies from 15Hz to 150kHz in four overlapping ranges. Low distortion... less than 1% maximum between 20Hz and 20kHz. This is one of the most useful pieces of equipment on the experimenters bench. This new, simple design is easy to build and a great performer. runs from 9V battery.

All parts supplied, including specially printed front panel, attractive 'Zippy' case and full instructions.

S-3006 9V battery 45c extra

Cat. K-3489 ★★

\$32.00



CAPACITOR DISCHARGE IGNITION



NOW WITH THIS DETAILED 16 PAGE ASSEMBLY MANUAL

OVER 4000 SOLD

This is going to be the best value C.D.I. available. Your car will start easier when hot or cold. Your car's plugs will last longer — keeping your car in top condition and using less petrol. When you add all that up it won't take long for the C.D.I. to pay for itself.

Cat. K-322 ★

\$27.50



7 DIGIT FREQUENCY METER

COUNTS TO 40MHz — or to 200MHz

All new 7 digit 40MHz frequency meter from Electronics Australia. Can be run from 12V DC mobile supply. Has built-in 240V mains power supply for use in workshop. Has rugged drilled case with black marplat cover and special silk screen printed perspex front panel (like the original). Readouts are rugged light emitting diodes for long trouble free service. Has a built-in quartz crystal time-base circuit for incredible accuracy. Kit is supplied for operation up to 40MHz — you only need to add one IC at any time to convert your 40MHz kit to 200MHz. Full instructions supplied.

Cat. K-3437 ★★ 40MHz \$99.50

DESIGNED BY BO SIMPSON OF ELECTRONICS AUSTRALIA

EASY LOW COST CONVERSION TO 200MHz All you do is add a 95H90 IC (Cat. K-5339) just \$12.50 and you turn your 40MHz DFM into a 200MHz DFM. Other parts to buy. For a total of just \$112.00 you have a 7 digit 200MHz frequency meter.

Cat. K-5339

\$12.50



SEE ELECTRONICS AUSTRALIA AUGUST 1978

TRANSISTOR TESTER

Speed fault finding!

Not just another Transistor Tester! This one tests bipolar transistors, diodes, F.E.T.'s and even S.C.R.'s and P.U.T.'s. This practical low-cost test instrument is simple enough to be built by a beginner and then provide him with a valuable piece of test equipment. You can get experience in building, then use it to learn about the operation of semiconductors, or use it for more serious checking. Ideal for the beginner and serviceman alike, or in schools. Battery operated and supplied with one of our new 50mm meters in a deluxe 'Zippy' case. S-3006 9V battery 45c extra

Cat. K-3052 ★ \$19.75

SEE E.A. JULY 1978



NOVICE TRANSVERTER

\$89.50

HIGH POWER



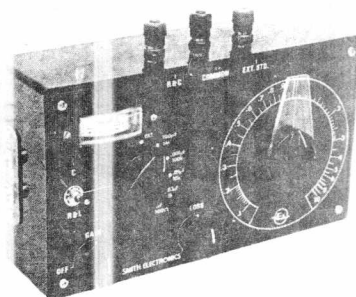
Cat. K-3134

The cheapest way for a novice to get going on 80m. Use your old CB radio and convert it up to 80m. Maximum power output is 10W on AM, 30W PEP on SSB. Surprisingly easy to build — about 4 hours with fibreglass PCBs standard to make it easy for you. Supplied with a 23.570MHz crystal which allows the following transmitters:

EXCLUSIVE TO DICK SMITH

3.535MHz — 27.125MHz
3.545MHz — 27.135MHz
3.555MHz — 27.145MHz
3.565MHz — 27.155MHz

Measure unknown components R-L-C BRIDGE



SEE E.A. MARCH 1978

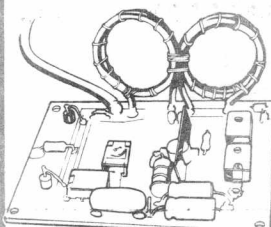
Find the values of unknown components and determine the actual value and tolerance of resistors, capacitors and inductors. Ten ranges of measurement from 10 ohms to 10 megohms and from 10 picofarads to 10 microfarads. Plus inductive measurements down to a few hundredths of a henry. Resistance, inductance, capacitance bridge is a handy, easy piece of test equipment. Runs from 9V battery supply. Complete kit of parts. Includes specially printed front panel.

Cat. K-3488 ★

\$34.50

2 METRE AMPLIFIER

45 WATTS
ONLY \$29.50



Yes! A fantastic 2 metre amplifier kit of the simplest construction. Uses the 2N6084 transistor to give 45 watts out from 8-12W drive. Runs from 13.8V. complete kit includes detailed instructions.

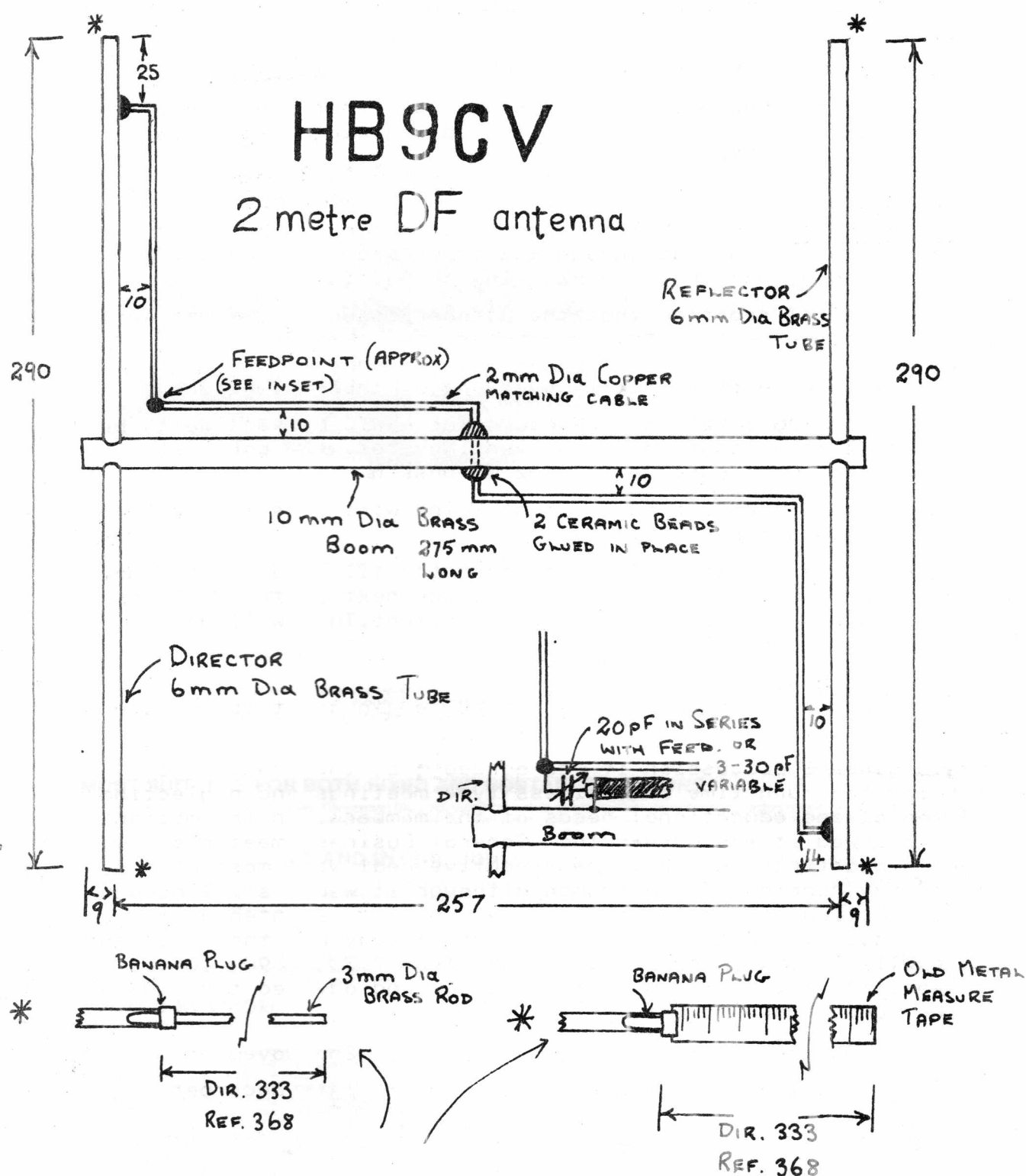
Diodes to 'house' and protect the amplifier. Cat. K-2209 \$6.00

Cat. K-3132

NEW! 2 METRE CONVERTER

This simple, low cost 2m converter employs the latest design techniques and components to produce a highly sensitive, low noise converter of exceptional stability. Covers the full 144-148MHz band with an IF of between 26 to 30MHz (suitable for use with any sensitive receiver such as the FRG7. Highly suited to OSCAR operation.

Cat. K-3482 \$24.50



....The HB9CV Antenna for Fox Hunting.....

This antenna is designed so that it can be dismantelled for storage and transport. As the drawings of the plug-in elements show, it is possible to use stiff rod or flexible steel tape to make up the additional length of the director and reflector. If able to use steel tape this would make it very useful if using the antenna in wooded areas.

The inner parts of the elements are made of 6mm Dia brass tube and should be soldered to the boom. The use of a small blow torch would be handy here.

Approximately 52cm of 2mm copper wire is required for the matching line and is bent to suit. After location, the wire and the ceramic or plastic beads should both be glued in place.

A meeting of the Northern Branch was held on the 12th of October at the Bourke St clubrooms with 22 members present. The meeting was chaired by Ed Hewens and apologies were received from VK7IC and VK7NHA.

Reports

Equipment Store David VK7YY reported a trading of \$153 for the month. He also asked that anyone who ordered a modified AM/FM portable radio, that they are awaiting collection.

QRM Ken VK7ZKT reported that the October issue of QRM was sent to all amateurs in the State, regardless of whether they were members of the WIA or not. This was a decision of the TARC committee to attempt to notify everyone of the convention.

WICEN Joe VK7JG asked for operators for a WICEN exercise to be run as part of a light car club event. Novices were particularly requested and would use 28.550 MHz if possible.

Club Room Bill VK7TE reported that mains wiring is in abeyance pending discussions with the LCC.

Lecture Officer Alan VK7ZLA said that the film and video night held recently, was a great success and the next lecture will be by Bill Rowe from the Meteorology Department. This will be on Thursday night the 25th October 8PM.

General Business

It was carried that the levy of \$2 remain as it is for the next financial year.

In general discussion it was agreed that the Branch was spending too much time on business type meetings and neglecting the social and educational needs of the members. In the motion that followed it was agreed that General Business meetings now be held quarterly and that the executive deal with most of the day to day running of the Branch, although it would still account for its actions at the quarterly meetings. It is intended to hold an activity night each 2nd and 4th Friday and the Equipment Store will be open every Friday night from 7.30 to 9PM. Dates and specific activities will be arranged and advised thru QRM or on the Sunday morning broadcast.

Next Executive meeting ; 2nd November

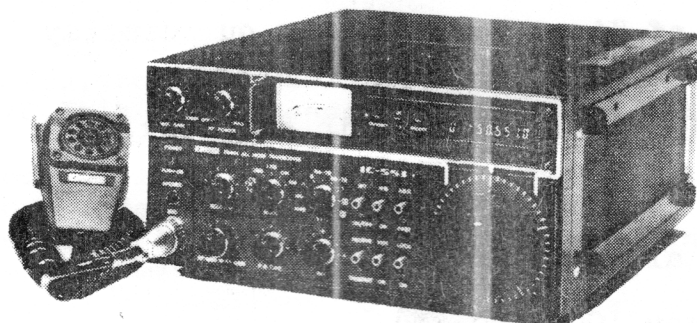
Next General Business meeting ; 14th December

FOR SALE FOR SALE FOR SALE

FDK Multi-7 transceiver fitted with R2 , R8 , Ch40 and Ch50. Homebrew power supply to suit. 4 element 2 metre Yagi with 7 metres of coax and mobile gutter mount whip+2 metres of coax. Mobile mount, connectors, manual etc included. Suit new Z call. Sell complete only.....\$200. ONC Tom Macho ExVK7TL
Phone Tom ; Work - 002726976 Home - 002232989

New from ICOM

IC 551



All-mode 6 metre transceiver

Features:

* 50-54 MHZ ALL-MODE TRANSCEIVER INCORPORATING A MICROCOMPUTER

CPU control with ICOM's original programs provides various operating capabilities. No-backlash dial controlled by ICOM's unique photo-chopper circuit. Band-edge detector and Endless System provides out-of-band protection. No variable capacitors or dial gear, giving problem-free use. All mode capability: SSB, CW, AM and FM. Operating mode is indicated on the display unit.

* MULTI-PURPOSE SCANNING

Memory Scan allows you to monitor three different memory channels. Program Scan provides scanning between two programmed frequencies. Adjustable scanning speed. Auto-stop stops scanning when a signal is received, in all modes. Auto-start restarts scanning after a pre-set interval.

* TWO VFO'S BUILT IN

No extra equipment needed for split-frequency operation. Easy writing and reading of the three memory channels. Smooth and easy tuning with a 5KHz-per-turn dial marked in 100Hz increments. Complete 4MHz coverage without a band select switch.

* EASIER OPERATION AND LIGHTER WEIGHT

The most compact, lightest weight all-mode 50MHz transceiver. First to use a pulse power supply in communication equipment, for lighter weight. 50mm-diameter large tuning control knob for smooth and easy tuning. Trouble-free controlling knobs for both receiving and transmitting LED indicator for transmit and receive modes.

* MOST SUITABLE FOR BOTH FIXED AND PORTABLE STATIONS

Built-in 240V AC and DC power supplies. Convenient Dial Lock switch for mobile operation. Easy-carry handle. Effective Noise Blanking to reduce outcoming pulse noise. IC-SM2 high quality stand microphone is suitable for fixed station operation. Powerful audio output, 2 watts at 8 ohm, for easy listening even in noisy surroundings.

* EXCELLENT SPURIOUS AND INTERMODULATION CHARACTERISTICS

ICOM's specially designed helical cavities at both the input and output of the RF amplifier provide excellent intermodulation characteristics. Newly developed high quality FET's for improved S/N ratio. Dual-gate MOS FET's for IF amplifier. Newly developed compact high quality crystal filter for better selectivity. Variable RF output power.

* ACCESSORY CIRCUITS

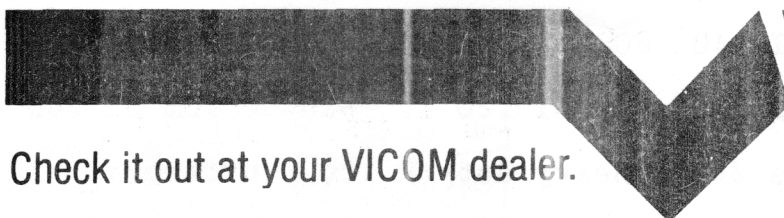
ICOM's original effective Noise Blanking to reduce pulse noise. AGC selection to reduce QSB effect. RIT circuit to shift the receiving frequency without effecting the transmitting frequency. Includes voice control unit for smooth VOX operation. ICOM's famous bandpass tuning to improve selectivity in the receive mode. RF speech processing in the transmit mode for that extra 'talk power'.

* BACKED BY VICOM

90 day warranty and technical/spares support.

IC551 Specifications: □ General. Number of Semi-conductors: Transistors 51. FET 13. IC (includes CPU) 30. Diodes 114. □ Frequency Coverage: 50 — 54MHz. □ Operation Temperature: — 10°C — +60°C (14°F — 140°F). □ Frequency Stability: Less than ±500Hz after switch on 1 min to 60 min, less than 100Hz per 1 hour after 60 min, and less than ±1KHz in the range of — 10°C to +60°C. □ Antenna Impedance: 50 ohms unbalanced. □ Power Supply Requirements: 13.8V DC ±15%, negative ground, or 117V/240V AC ±10%. □ Power Consumption: Receive at min. audio level DC 0.9A AC 35W, at max. audio level DC 1.1A AC 41W. Transmit in SSB/CW modes DC 3.3A AC 98W. In AM mode DC 3.0A AC 92W. In FM mode* DC 3.3A AC 98W. □ Dimensions: 111mm (h) x 241mm (W) x 311mm (D). □ Weight: 6.1 kg. □ Transmitter. Emission Modes: A3J SSB (USB/LSB). A1 CW. A3H AM. F3* FM. □ RF Output Power: SSB 10W PEP (1 — 10W adjustable). CW 10W (1 — 10W adjustable). AM 4W (0 — 4W adjustable). FM* 10W (1 — 10W adjustable). □ Modulation System: SSB/AM Balanced modulation. FM* Variable reactance frequency modulation. □ Max. Frequency Deviation*: ±5KHz. □ Spurious Emission: More

than 60dB below peak power output. □ SSB Carrier Suppression: More than 40dB below peak power output. □ SSB/AM Unwanted Sideband: More than 40dB down at 1000Hz AF input. □ Microphone: 600 ohm dynamic or electret condenser microphone. □ Receiver. Receiving Mode: A1 (CW), A3J (USB, LSB), A3H (AM), F3 (FM). □ Receiving System: SSB/CW/AM Single Superheterodyne (Triple Superheterodyne when Pass Band Tuning unit is installed). FM Double Super heterodyne. □ Intermediate Frequency: SSB/CW/AM 9.0115MHz. (When Pass Band Tuning Unit is installed: 2nd IF: 10.75 MHz, 3rd IF: 9.0115MHz). FM 1st IF: 9.0115MHz, 2nd IF: 455KHz. □ Sensitivity: SSB/CW/AM Less than 0.5 uV for 10dB S/N. FM More than 30B S+N+D/N+D at 1 uV. □ Spurious Response Rejection. Ratio: More than 60dB. □ Selectivity: SSB/CW/AM More than ±1.1KHz at — 6dB. Less than ±2.2KHz at — 6dB. (When Pass Band Tuning Unit is installed: less than 1KHz at — 6dB). FM More than ±7.5KHz at — 6dB. Less than ±15KHz at — 60dB. □ Squelch Sensitivity: SSB/CW/AM 1 uV. FM 0.4uV. □ Audio Output Power: More than 2 watts. □ Audio Output Impedance: 8 ohms.



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IC55ID \$850.00 6m transceiver 100w (no FM)

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Multi Palm II Hand Held 2m transceiver fitted with R2 R8 simplex
40 50 \$229.00 Battery charger \$6.50

9 foot fibre glass whips c/base \$22.00

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YAESU FT75B all band transceiver with ac/dc power supplies \$225.00

SUPER TRAP BEAM ANTENNA VS-33 20-15-10 \$165.00 Brand new.

Mobile Aerials in stock 1/4 wave whips for 6 & 2 metres

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Mobile Mounts Standard Base \$4.00 Heavy duty \$7.00 Guttergrip \$17.

Accessories W2AU Balun \$32.00 3" Egg insulator \$2.07

ANSULATOR Centre Insulator \$16.00 Spider Quad Hub Pair \$33.58

Quad Reflector Coil \$8.28

Congratulations to the following, who were successful in the August AOCB exam..Donald Hughes ; Lloyd Cherry ; Jeffrey Cordell ; Frederick Burrows ; Ormond Fudge ,who all passed at AOCB level..Peter Butler ; Steven McDonald ; Paul Wagner ; Graeme Floyd ; Roger Healy ; Merv Pitman ; Lewis Jarvis and John Cole ,who passed at the AOCB level. So there are thirteen new calls soon to be issued which is certainly a tremendous effort..Well done fellas.

At the last Southern Branch meeting, it was moved by Ted, VK7EJ, that the building fund A/C be changed to the Clubhouse A/C. This was seconded by Ron VK7RM and carried unanimously. As we have now affiliated with SES, it remains to be seen what rooms and facilities will be available to us..The Executive hopes to have information on this and details of what equipment is required to be purchased for use by the members; by the next General meeting on 7th November. So if any members have any useful suggestions to add, then they will be welcome to air them on this occasion.

Next meeting there will be a film (G6CJ) Aerial Circus. This film has been vetted already by Graham, VK7GD, who thoroughly recommends it..Also after the next meeting there will be an Auction of the following equipment ; Several 45MHz FM portable receivers, an ex-mobile motorbike 4 metre band transceiver and also some odd lengths of aluminium tubing.

NEXT GENERAL MEETING....7th NOVEMBER

WAGS It will be the last opportunity at the next meeting to order wine and port which is being bottled at the combined Wine-bottling and Christmas Barbecue organised by WAGS. It is being held at Tom, VK7TM's QTH on Dec 1st..Andrew VK7AW is taking the orders and money.



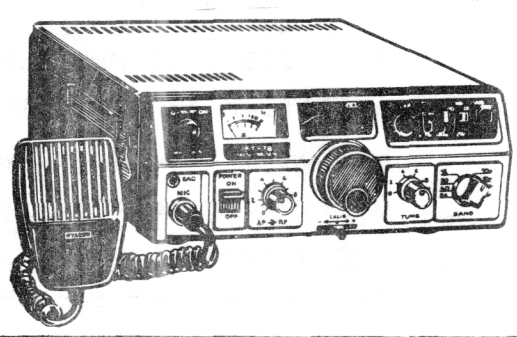
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YAESU AMATEUR EQUIPMENT AND ACCESSORIES



On October the 11th, members and friends met at Penguin High for the General monthly meeting.

Plans for the 22nd Jamboree-of-the-Air were reported and it would appear that 5 sites will be manned on N.W. coast.

A recommendation from the Branch Executive, to increase the branch membership levy to \$3 was carried by the meeting.

Tony VK7AX gave a detailed Beacon / repeater report, which included the approval from the UHF/VHF Advisory committee for the new beacon frequency of 144.47 MHz. The cost of the new beacon would be minimal, thanks to Graeme, VK7ZAQ.

The ATV group continues to enjoy fine attendances and VK7NW projects are underway. Surplus components from bulk purchases for kits, would be available at the next meeting. Winston VK7EM gave an interesting talk on colour television alignment.

The HF group has only had limited response so far, but the small group is going to man Paton Park for JOTA with such things as antenna held aloft by a gas filled balloon and instruction in construction of crystal radios for the scouts.

It is planned to hold a Family night for the December meeting and a Xmas raffle was discussed with the major prize being an open order of \$250 on Devonport Toy store. All proceeds will go to the Branch equipment fund, the balance of which stands at \$130.

Brian VK7NHB referred to the Penguin High school raffle and that the September meeting had agreed to support the School as a token of appreciation for the use of its facilities. Brian had tickets if anyone wanted them.

The equipment fund raffle for the evening, was won by Graeme VK7GS and the prize was an RF filter.

Wayne raised the question of WICEN and the Branch's possible participation in exercises similar to that conducted by the Southern Branch and the State Police. The meeting agreed that following a talk given by Inspector Tom Lallo, that the Police were very interested in communications supplied by the WIA, but the SES were very self supporting and there was little need for Branch help at this time.

Footnote Congratulations to all members who were successful in the August examinations. Steve McDonald obtained his Limited license and Peter, VK7ZFP now has full call qualifications. Quite a few passed regulation and morse sections.

Next month its back with Jim Davis as I have filled in for him in his absence this month. Joan Fudge

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ICOM IC502 52 MHz SSB Transceiver and IC50L Linear amplifier to suit ; \$240 the lot.

Belcom Liner 10 ,12 watt PEP SSB ,10 metre Transceiver. Continuous coverage 28.480 - 28.710 MHz VXO. This is not a converted CB rig but a genuine Amateur rig.

Set is in Mint condition ; \$200. Allen Burke VK7NAB

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TARC 79

REGISTRATION FORM

I wish to advise that the following will be attending
the convention (Hamfest) for the whole weekend.....or
Sunday only...(strike out not applicable)

Surnames

Christian Names

.....
.....
.....

.....
.....
.....

Childrens Names (if any)

Age

.....
.....
.....

.....
.....
.....

Fees

Full Weekend

;

\$19.50 (Family)

;

\$10.00 (Single)

Sunday only

;

\$6.00 (Family)

;

\$4.00 (Single)

Note

Full weekend cost includes Saturday evening
dinner and drinks and Sunday lunch.

I enclose cheque for(minimum deposit \$5.00)

Registrations to ; Secretary, Northern Branch WIA

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FT220 2metre ALL MODE Transceiver.

Complete with all repeaters...\$400

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WANTED

One (1) windmill with head and pump.(vanes optional)

Preferably able to be dismantled for transport.Also
a wind generator,tower (any height) and combustion
stove.

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IC225 2M FM 10W INCL. 5/8 WHIP	\$299
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IC551 6M ALL MODE 10W	\$799
IC551D 6M 100W. (NO FM)	\$849

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TS120S 80-10M HF 200W	\$729
TS120V 80-10M HF 10W	\$599
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RG58AU COAX 50 Ω	0.40/M
40MHZ DIG. FREQ. COUNTER KITSET	\$99.50
50 Ω 50W NON INDUCTIVE RESISTOR	\$14.50
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