



REPEATERS VK3RGV 2m & 70cm

VK3RGV B D-Star

2m IRLP Node # 6992

CLUB CALL SIGN VK3SOL

Repeater Frequencies: 6 meters: ( 53.725Mhz Out, 52.725 In. 123Hz tone)

2 meters ( 146.650Mhz Out, 146.050Mhz In 123Hz tone)

70cm ( 439.775Mhz Out, 434.775Mhz In 123Hz tone)

President:- Peter Rentsch

Vice President:- Trevor Close

Secretary:- Darren Glasson

Treasurer:- Greg Keegan

VK3FPSR

VK3ATX

VK3HEN

VK3POP

## S.A.D.A.R.C. April 2014.

### Upcoming Events.

**Next Monthly Meeting at Mooroopna Scout/Guide hall on 3rd May at 1pm.**

**Murray Quad at Yarrawonga on Saturday May 10th  
Meeting at the Yarrawonga Yacht Club on the Friday Evening Before the event.**

**Club Display at the Rotary Club of Shepparton's Show n Shine /Market Day.**



## Presidents Report April 2014.

On Sunday April 6<sup>th</sup> the Club held it's PR for Amateur Radio day at the Rotary Club of Shepparton's Show n Shine /Market Day. It was a successful day and a lot of fun. Thank you to the members that attended and made it so successful. A lot was learned from the day about what to set up, location and extraneous noise like being located close to the public address system.

Members that attended were keen to do another event at another time. It was suggested that we set up a station at the Cobram Show n Shine in August in association with the Vintage Radio Club who also exhibit on the day. At the next meeting we will have a debrief on the day and discuss what we did and can we do it better next time.

Please don't forget that on Saturday May 10<sup>th</sup> is the Murray QUAD. Darren and Bruce have kept in contact with Tim Roadley from the organising committee and have spent a lot of time and effort in making sure the day runs successfully. Please support both Darren and Bruce in this Club Project.

As Darren and Bruce will need some time at the next meeting to finalise plans for the Murray QUAD I felt it was not reasonable to have a guest speaker as the day gets too long. So, the format for the meeting will be that the Club Rooms will be open by no later than 10.30am for those who want to come along and have a chat. For the Executive we will meet at 10.30am and I hope you can all make it. At 11.30am we will have a BBQ chat session which will be followed by the regular meeting at 1.00pm. After the regular meeting we will have a break and then continue on with a session from Darren and Bruce in regard to the Murray QUAD. I usually like to allocate about one hour to the guest speaker and Darren suggested that he will need about 30 minutes. After Darren and Bruce have completed their planning Rodney will present a talk on Power Supplies.

Below is our calendar of events for the next few months and you will note that we have our

May 3<sup>rd</sup>            Executive Meeting at 10.30am followed by a BBQ at 11.30am and our regular meeting and Guest Speaker

May 10<sup>th</sup>        Murray QUAD

June 7<sup>th</sup>        Regular Meeting with Guest Speaker from the CFA

Thanks again for your support and I look forward to as many of you as possible on May 3<sup>rd</sup>..

Peter – VK3FPSR  
President – SADARC

## Minutes of SADARC Feb 2014. No minutes this month.

## TECHNICAL COMMITTEE REPORT – April 2014 (20/4/14)

**There have been no further disasters at our Mt Wombat Repeater site. Most of the following work was done by Ray and Rodney just before the last meeting.**

- The Motorola power supply has been replaced by the standby power supply. The standby has a lower output compared to the Motorola but can easily handle high transmitting traffic density by the repeaters. The standby will remain in service until the Motorola supply is repaired and upgraded.
- The protection zener diodes in both the 70 cm and 6 metre analog repeaters were replaced and both repeaters were returned to service none the worse for the power surges.
- Ray found the PA transistor and a few other items in the UHF CB repeater had to be replaced before the repeater was returned to service.
- All analog repeaters are operational.
- The D-Star repeater has been repaired but I haven't been advised as to whether it has been reinstalled as of 20<sup>th</sup> April. It has been out of service now for around 18 months.
- The condition of the damaged batteries isn't known for sure. However, their amp hour capacity would have been reduced considerably by the overcharging although tests conducted by Ray indicate that whilst the capacity has been reduced we don't know by how much. The batteries should be replaced before next fire season if the capacity is shown to be significantly reduced.
- I have contacted Peter Mill of Amateur Radio Victoria (ARV) via email about the progress on the alterations to the guy points they are organising. Additionally I have asked for the names of people who may be able to give us information on the twisting moment on the Nally towers with antennas mounted some distance out from the tower itself. I have also asked him about a source of batteries at a reasonable price. I haven't had a reply at this stage.
- The Motorola power supply will be modified when it is serviced to incorporate over voltage protection similar to what is installed in the standby supply. The Motorola didn't have this feature built into it as we received it several years ago. If it had, much of the damage that occurred with the power surge (lightning nearby) would likely not have happened.
- Regrettably the cost of repairing the equipment by the electrical storm isn't covered by the ARV insurance.
- No progress on the club room antenna mast at this time.

Nothing to do with the technical report but folk with solar panels on the roof (feeding into the grid) or who are contemplating putting solar on should check the tariffs that are available. In my case I was offered a tariff of around 30¢ per KWH for peak energy between 7am and 11pm with off peak of around 17¢ between 11pm and 7am and all weekend. If I didn't have solar panels on the roof I would have been offered around 21¢ 24 hours a day. No matter what happens they seem to get at you.

Rodney Champness VK3UG on behalf of the technical committee, Ray VK3RW, Phil VK3ELV and Geoff VK3ZNA.

# For Sale and Give Away.

Ian, VK3VIN has a KT-100 Auto Tuner. It is an LDG model specifically wired for the Kenwood Transceivers. It will also work with others and he has used it with an Argonaut with success. Only 12 months old.

Originally priced at \$280.00 plus postage

Will sell for \$130.00 plus postage.

Please contact Peter VK3FPSR if you are interested.

## List of radio books available from Rodney Champness (VK3UG)

03 5825 1354 email [rodlynn6@bigpond.com](mailto:rodlynn6@bigpond.com) I'm disposing of my excess.

### MORE IN DEPTH BOOKS

- Radio Handbook 10<sup>th</sup> edition 1946 A quality book 704 pages HC
- Encyclopedia of Electronic Circuits Volume 7 1999 McGraw Hill 1128 pages
- Electronic Data Handbook (Radio Shack) 1982 128 pages
- Engineer's Min-Notebook (Radio Shack) 1970s Formulas, Tables and Basic Circuits. 48 pages
- Engineer's Mini-Notebook (Radio Shack) 1987s Basic Semiconductor Circuits. (X2) 48 pages
- Engineer's Mini-Notebook (Radio Shack) 1988 Communications Projects 48 pages
- Engineer's Min-Notebook (Radio Shack) 1990 Schematic Symbols, Device Packages, Design and Testing. 48 pages
- Electronics Reliability – Calculation and Design Drummer & Griffin 1966 238 pages
- Standard Handbook for Electrical Engineers 7<sup>th</sup> Edition A.E. Knowlton McGraw Hill 1941 2303 pages HC
- Radio Installations their design and maintenance – W.E. Pannett (Marconi) 1951 Commercial, 454 pages. HC
- Technical Instruction for Marine Radio Officers. 9<sup>th</sup> Edition, Dowsett & Walker. 1950 Iliffe 699 pages HC
- The Services Textbook of Radio – The Services Textbook of Electrical Engineering, Vol 1 – Electrical Fundamentals. Edited by Wireless World 1956 645 pages HC
- Transistor Audio & Radio Circuits. 2<sup>nd</sup> Edition Mullard 281 pages HC 1972
- Integrated Circuit Pocket Book R.G. Hibberd Newnes- Butterworths 1972 274 pages HC
- Radio Laboratory Handbook 2<sup>nd</sup> Edition M.G. Scroggie Wireless World Iliffe 399 + pages HC
- Analog Electronics – Analysis and Design Malcolm Goodge MacMillan 1990 508 Pages.
- Radiotron Designer's Handbook (1<sup>st</sup> edition) 40 pages 1934
- Radiotron Designer's Handbook (2<sup>nd</sup> edition) Amalgamated Wireless Valve Company Pty Ltd 58 pages 1935
- Radiotron Designer's Handbook (3<sup>rd</sup> edition) Edited by F. Langsford-Smith Amalgamated Wireless Valve Company Pty Ltd 352 pages 1940 ( 2 copies)
- Radiotron Designer's Handbook 4<sup>th</sup> Edition Edited by F Langsford-Smith Amalgamated Wireless Valve Company Pty Ltd 1474 pages 1952 HC with Addenda 1953 24 pages.

- Radio Engineers Handbook Henney 3<sup>rd</sup> Edition McGraw Hill 1941 945 pages HC
- Radio & Television by James R. Cameron Cameron Publishing 1933-35 541 pages HC Interesting historical information at start of book on Various communications methods Radio & TV.
- Audels Electrical Power Calculations by E. P. Anderson 443 pages 1953 HC
- Microprocessor Technology by David Terrell, Reston 562 pages 1983 HC
- Beginner's Guide to Transistors, 2<sup>nd</sup> edition. Sinclair Newnes 1976 162 pages HC
- Digital Electronic Circuits & Systems Noel Morris Macmillan 1974 143 pages.
- Digital Integrated Circuits National Semi-Conductors 1974
- Linear Integrated Circuits National Semi-Conductors 1975
- Special Function Analog and Digital Circuits National Semi-Conductors
- Practical Electronics Troubleshooting James Perozzo Delmar Publishers 1985 350 pages

## **TELEVISION**

- PAL Colour TV for Servicemen. W.C. Cook 1974 248 pages HC
- Introduction to TV Servicing - Swaluw & Van der Woerd Philips Technical Library 1955 264 pages. HC
- Television for Radiomen – Ed Noll 1955 NTSC etc. 778 Pages HC
- Colour Television: The PAL System G.N. Patchett Norman Price 1968 216 Pages
- Pin point TV troubles in 10 minutes. Coyne 1960 USA 342 pages
- TV Fault Finding. Data Publications 1960 104 pages
- Television and You 1962 EMI (Aust) Ltd, Info for servicemen taking up servicing of TVs. 48 pages
- Principles of Television No 4 Philips Electrical Industries . 1950s 27 pages
- Practical Television F.J. Camm Magazine Vol 1 No 5 August 1950 48 pages
- Handbook of TV repair Robert Hertzberg 1956 A Fawcett book USA 144 pages
- Television without Tears (small book) 1943 69 pages.
- Mullard Technical Communications Vol1 No 3 January 1953 44 pages. Television
- Basic Television 2<sup>nd</sup> Edition Grob McGraw Hill 1954 644 pages HC
- TV Antennas & Signal Distribution Systems by M. J. Salvati Howard Sams 1982 256 pages
- TV & FM Aerial Installations for Australian Conditions by W. McManus Hi Q Antennas 1979 79 pages
- Mullard Radio Valve Manual - Mullard Some valve data and TV design 1958 312 pages
- Technical Standards for the Australian Television Service ABCB 1974 17 pages
- PAL Colour TV Mullard 1967

## **AMATEUR RADIO RELATED MATERIAL**

- Fifty years of ARRL ARRL 1981 151 pages
- Radio Transmitter Principles and Projects Ed Noll Editors and Engineers 1973 320 pages
- Radio Frequency Interference – How to identify it and cure it. ARRL 1986 Approx 80 pages
- Radio Frequency Interference – How to find it and fix it. ARRL 1991 235 pages
- Radio Frequency Interference – Practical cures for Radio Frequency Interference ARRL 2007 Approx 300 pages
- S-9 Signals. Inexpensive HF and VHF antennas for Amateurs William Orr. 1950s 48 pages
- Wire Antennas for Radio Amateurs, William Orr 1972 192 pages
- VHF Handbook for Radio Amateurs, Orr & Brier 1974 336 pages
- Specialised Communications Techniques for the Radio Amateur ARRL 1975 208 pages

- Radio Communications Handbook RSGB 4<sup>th</sup> Edition 1968 Excellent text book. Some water staining, but generally in good condition. 700 to 800 pages HC
- Radio Communications Handbook RSGB 5<sup>th</sup> Edition Volume 1 & 2 (2 books) 1976 Excellent text book. About 800 to 1000 pages all told. HC
- The Complete Morse Instructor by F. Tait Pitman 57 pages 1944

### **MAGAZINES, TECHNICAL BULLETINS & SMALL BOOKS**

- 13 copies of Radio from mid 1930s to early 1940s USA Amateur Radio.
- 23 copies of QST ARRL magazine. Various copies between 1933 and 1941.
- Australian Radio & Electronics Vol 15 No 10 May 1951. Magazine x 2
- The Australian Electrical & Radio World August 1949
- Many years of Radiotronics (in box)
- Several copies of Miniwatt Digest. Tech Bulletin Vol 1, 1 & 2 1958, Miniwatt Digest 1961 all copies, 1968 all copies, 1969 all copies, 1970 all to August.
- Several copies of Mullard Outlook. 1958 all except No 3, 1959 all, 1960 all except No 3, all 1961, 1962 all bar No 4, 1965 all, 1966 all, 1967 all, 1968 all, 1969 all, 1970 all to August.
- The Australian Electrical & Radio World June 20 1950
- The Australasian Radio World Vol 13 No 8 January 1949
- The Australasian Radio World. Vol 15 No 5 December 20 1950 combined with Australian Radio & Electronics.
- Australian Radio & Electronics June-July 1951 Vol 15 No 11
- Wireless World Dec 1945 36 pages
- Better Radio Reception for World-Wide Reception Eddystone Receivers R.H. Cunningham P/L with acknowledgements to Eddystone Radio Ltd, England 24 pages

### **VALVE DATA BOOKS**

- RCA Receiving Tube Manual 1940 255 pages (2 copies)
- Super Radiotron Valve Manual AWW 1962
- Product Guide for RCA Power Tubes RCA 38 pages
- RCA Power and Gas Tubes RCA 1959 31 pages
- Philips Valve Data Book Early mid 1940s 96 pages
- Philips Valve Data Book Fourth Edition 1952 100 pages (2 copies)
- Miniwatt Technical Data (Valve data, etc.) 7<sup>th</sup> Edition Philips 1962 192 pages HC (2 Copies)
- Telefunken – Tubes Technical Data (Valves etc) 1960 176 pages A6 size
- Valves & Semiconductors for the Radio Amateur Mullard Fold out sheet 50s or 60s
- Miniwatt More recent valve data 1967?
- Radiotron Valve Data Handbook AWW 1950 HC about A5
- Radiotron Receiving Valve Data Handbook AWW 1946 about A5
- TV and Receiving Valves and Components. AWW Radiotron 1950s 58 pages
- Radiotron 805 valve data AWW 5 pages
- Increased Ratings Transmitter Tubes. RCA 1939 60 pages
- Radiotron Characteristics Chart Receiving types. AWW 1939 18 pages
- Radiotron Characteristics Chart – Receiving types. AWW 18 pages (Larger format)

## **SEMI-CONDUCTOR DATA BOOKS**

- Mullard Industrial semiconductors Reference guide 1968/9
- Semiconductors & Components Radio Parts P/L 21 pages 70s?
- Data Update 12 National Semiconductor

## **VINTAGE RADIO BOOKS & MAGAZINES**

- Radiola Distributors Service Manual (AWA) 163 pages HC
- Concise Radio Handbook (AWA staff) 146 pages HC
- Licensing of Electrical Mechanics Regulations 1934 & E.L. & Power Act 1915 (2 copies) SEC
- The Brimar "Gen" book. Variety of data. 1950s 64 pages HC
- The Williamson Amplifier articles from "Wireless World" 1950. A high end amplifier in its time. 32 pages.
- Admiralty Handbook of Wireless Telegraphy Vol 1 1938- printed 1939 442 pages HC
- Admiralty Handbook of Wireless Telegraphy Vol 2 1938 700 to 800 HC
- Admiralty Handbook of Wireless Telegraphy Vol II 1938 – printed 1947 HC
- Radio Physics Course Alfred Ghirardi 2<sup>nd</sup> edition, 972 pages 1933 good for vintage radio buffs. Good condition. HC
- Drake's Radio Cyclopedia. 1929 Approximately 1000 pages HC
- Modern Radio Operation J. O. Smith 1922. 133+ pages HC
- The Best of Australia's Wireless Weekly – Electronics Australia publication
- Australia's Radio Pioneers by Neville Williams Electronics Australia 1994 147 Pages
- The Best of Wireless Weekly in 1927 Foreword Neville Williams Electronics Australia 1985 130 pages. ( 2 copies)
- Discovering Vintage Radio by Peter Lankshear Electronics Australia 1992 114 pages
- Radio Circuits and Data C.A. Quarrington Caxton Publishing 1940s or 1950s 90 pages HC
- Radio Parts Pty Ltd, Catalogue pre decimal period. Interesting for vintage buffs, 147 pages.
- Radio Circuits – A step by step Survey. A good vintage radio primer. W.E. Miller Iliffe 1959 172 pages HC
- Hawkins Electrical Guide 10 Volumes 1 to 10 3367 pages 1917.
- A Beginner Guide to Radio. 5<sup>th</sup> Edition F.J. Camm Newnes 1962 160 pages HC
- Short Wave Radio Handbook No 42 Bernards 1944 64 Pages
- Advanced Service Technique No 32, Radio Craft Publications 1947 64 pages
- Radio-Electronic Circuits No 34 Radio Craft :Publications 1947 64 pages
- The Elementary Principles of Wireless Telegraphy – Part II R.G. Bangay. 241 pages HC
- Wireless-Controlled Mechanism for Amateurs Raymond Phillips 112 pages 1927 HC
- Technical Topics Handbook Mingay Publishing 1947 280 pages



# Mt Franklin Bottle Shop Net Get Together.

VK3DP making Rolly Poly.



VK3DP camp and wood stove then Barry VK3MBW.



VK3KLB camp then Michael VK3NMK and Bruce Myrtle VK3FBNG.

