



S.A.D.A.R.C

SHEPPARTON AND DISTRICT AMATEUR RADIO CLUB

Repeaters: VK3RGV 2m - 70cm - Packet.
Freq: 146.650 - 439.775 - Packet 147.575

www.sadarc.org

Incorporation No. A6677
P.O Box 692 Shepparton 3632

Founded 1979



JOTA 2006

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Family Day in Benalla

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Our first of the Member Profiles.

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Volume 2, Issue 10,
November 06'

PRESIDENTS REPORT



Hi Everyone,
As you have probably heard Roger VK2RO, president of Shepparton Amateur Radio Club has had work commitments this last month or so. So as Vice President I have had the duties of President, in which I conducted the last meeting. Despite the busy weekend with the Melbourne Cup being on, it still didn't suppress the enthusiasm of some of our club members. We had a small gathering of approximately 16 members at the last meeting held on the 4th of November. First up is the end of year BBQ to be held at our clubrooms in Mooropna on the 2nd of December with a 11:30am start. Members are reminded that the BBQ meat is supplied at the expense of the club, but BYO drinks and salad is required. As you are probably all eager to hear is the IRLP link is just around the corner now. Thanks to Ray VK3RW for his help we should have it up and running VERY SOON. I am very eager myself to try IRLP as I have read a lot about it and used it once or twice on other repeaters but really not had any decent QSO's with other operators. Ed has kindly lent us

his Philips 828 to get the IRLP link running as the Motorola set we acquired didn't suit the purposes of an IRLP link. JOTA weekend ran very well. Thanks to the help of Ben VK3FBGS and Ed VK3BG, we have erected a new 40/80m Dipole that was used throughout the whole weekend. We had approximately 80 scouts and guides come through the clubrooms throughout the entire weekend. As you are all aware we had the luxury of broadband internet this year, which made JOTAI a huge success with the kids chatting all around the world via IRC. NASA TV was setup for the scouts and guides to view, although a visual of the ISS was not possible due to the time it was due around 12:36am Sunday morning. Ben armed the radio majority of the time on HF and also making various contacts with the Albury club via their 2m repeater. Big thumbs up to Ben as being a new foundation license he has certainly made a big impact on the club since his arrival. Also a big thank you to all the members of who attended JOTA, your support was essential. Next year though I do feel things need organized at least a month prior to the day to prevent last minute hassles that we experienced this year. I have invited Leigh VK2KRR to attend one of our meetings next year to discuss the topic of VHF and UHF propagation. He will be presenting us his interactive powerpoint

presentation that has audio samples that he has taken while been active is the hobby. Any members that have upgraded their call signs and wishing to change their call sign badge will be required to pay \$6. As discussed at the meeting we came to the conclusion that new badges to new club members are free as part of their membership, this was moved and voted upon. An upcoming working bee will be organized in February. The aim for this will be to get the HF Multiband vertical up and organize the security of the radio shack. We will be installing a bench for the radios and also security mesh for the protection of our gear. More on this at the next meeting. I would like to say a big congratulation to Rob in obtaining his new callsign VK3FMAC. Rob and myself spent 30 minutes eagerly searching the ACMA database for a callsign on Saturday night of JOTA to suit his taste. I hope all members make him feel welcome as this is a very important key in to the success of the club. Rob sat his foundation exam of the weekend of JOTA and passed with a 100% success rate! I am looking forward to hearing him on air soon! Danny will be running the 80m net until next year where we will be organizing a new roster system, although if you're on the current roster and can do that shift please let Danny know as this will avoid confusion

and allow the net to run and not hinder the 2m net. I haven't been around the radio side of things recently, due to my own work commitments and other activities. There are also some other members that also fit into this category, but this doesn't mean that things are falling apart. I really want to stress that the club needs to have the support from its members to survive. I do realize that I am new here, but I do feel that the club is lacking on some of the support from its members. A busy

club is a happy club and a happy club will invite new members. Our membership is really coming along well and I think the club is going to be able to offer all members plenty of enjoyment for years to come as our hobby grows with the technology around us. I feel there has been some negativity in the club with various members and I feel we need to put those issues behind us and take some steps forwards to creating the best possible club. We have so many assets from various members' skills and attributes. We do not

want to push these people away, but instead encourage their enthusiasm to participate in the club. Next meeting is our last meeting for the year. It would be great to have a record breaking BBQ, be a great way to end the year and look back 12 months ago and reflect on the changes that have progressed since. So hope to see you all there! I never knock a good feed and great company. See you all there.

73's for now Kane VK3HKH

Chips N Bits are giving 10% off selected products to SADARC Club members.



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JOTA



Above: Ben VK3FBGS assisting with the radio at JOTA
Right: Fred VK3APA operating the computers at JOTA



NEW INTERNET FORUM

An internet forum has been setup for those with access to the internet, the forum is for those who have something to share, ideas, thoughts etc, with others that comes outside the

newsletter publication dates. You can find the forum at <http://sadarc.proboards49.com> so please pop along and sign up for a free membership, and remember to activate your account!

WWW.SADARC.ORG

www.mods.dk

For those who have Internet access may be interested in looking at a site called Mods.dk, it is an article based site which offers information on modifications to Ham gear. It works on a membership basis, so you have to join to be able to read the articles, registration is free. But please be aware on the site there is a disclaimer, you can find it on the start page in red text. Go to www.mods.dk to join.

If you wish to become a member of SADARC then contact The Secretary, PO Box 692, Shepparton, 3632.

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Minutes of November Meeting

Shepparton and District Amateur Radio Club Inc. A6677S. Minutes of monthly meeting held on Saturday 4 November 2006 at the Mooroopna Community Hall, Echuca Road Mooroopna.

The Vice President Kane VK3HKH opened the meeting at 1310 hours and welcomed all present.

Present: Duncan VK3MDC, Kane VK3HKH, Danny VK3FDTH, John VK3PXJ, Les VK3FLGL, Bill VK3DWG, Rodney VK3UG, Ed VK3BG, Rob VK3FMAC, Max VK3DSF, Pat VK3OV, Terry SWL, Neil VK3XNW, Ron VK3COP, Denys VK3ZYZ, Jac VK3TJS.

Apologies: Roger VK2RO, Daryl VK3KL, Ray VK3RW, Ben VK3FBGS, Gordon VK3ACC, Rob VK3ECH, Jan VK3ALF, Darren VK3HEN, Allan VK3AYD, Toby VK3PNR, Wayne VK3XQA.

Moved John VK3PXJ, seconded Les VK3FLGL, carried.

Treasurers Report: Danny VK3FDTH presented the report on the club finances.

Moved Danny VK3FDTH, seconded Pat VK3OV, carried.

Correspondence Inward:

Reply from Dr. Sharman Stone on BPL – Rodney VK3UG will summarise the reply for inclusion in the newsletter.

EMDRC Newsletter.

BARG Hamvention.

Moved Pat VK3OV, seconded, seconded Ed VK3BG, carried.

Correspondence Outward: Nil.

Acceptance of minutes of last meeting: Moved Duncan VK3MDC, seconded Bill VK3DWG, carried.

General Business:

Max VK3DSF has booked the venue for the 2007 Comms Day for the second Sunday in September.

JOTA: Kane VK3HKH indicated that the weekend was very successful. New antennas were erected for 40 and 80 meters, four PC's were provided by "Shepparton News" and a projector was provided to display the Internet. Approximately 80 scouts and guides went through over the weekend. Kane

indicated that a greater commitment would be required for next year to avoid the rush to get things organised prior to the event.

IRLP: Duncan VK3MDC indicated that he discussed the situation with Ray VK3RW, and it has been decided that a more suitable radio would be a UHF 828 and that Greg VK3ZKV was in the process of procuring a radio of this type. Ed VK3BG offered his 828 for use until another radio becomes available. Kane VK3HKH will also contact Angus Communications regarding the procurement of another radio.

LED Project: Kane VK3HKH suggested that once the IRLP project is completed, the LED project should be reactivated. It was also suggested that once the LED system has been tested locally, a test in the field between suitable sites should be arranged.

Club Radio Room: Jac VK3TJS had previously raised the matter of security of the radio area at the clubrooms. This was discussed and it was decided that a working bee would be arranged in February 2007 to partition off the area and to provide bench space for the radio equipment.

Moved Danny VK3FDTH, seconded Duncan VK3MDC carried.

Jamboree: For the Jamboree in January, it was suggested that we could join with the Midland Radio Club. Duncan VK3MDC is to discuss this with Roger VK2RO and if agreed, he will put this proposal to the Midland Club.

Club Meetings: Kane VK3HKH suggested that we continue to arrange for guest speakers to attend our club meetings. Kane said he would arrange for Leigh VK2KRR to attend a meeting in the New Year and talk about his experiences in Amateur Radio.

Rodney VK3UG suggested that we run club groups to discuss matter such as Mobile installations, antenna erection and interference.

Max VK3DSF suggested that we could arrange activities days where members could work on equipment.

2007 Call Books: Ed VK3BG indicated that he would be receiving the 2007 Call Books shortly, and that members wishing to obtain a book and have not already placed an order should contact Ed.

WIA members \$22 (\$25 posted), non-WIA members \$30 (\$33 posted).

New Foundation Licence: Kane VK3HKH offered congratulations on behalf of the Club to Rob VK3FMAC on obtaining his Foundation Licence and new call sign.

New Club Members: Kane VK3HKH welcomed two new members to the Club: Denys Parnell VK3ZYZ and Ron Burns VK3COP.

80M Club Net: Danny VK3FDTH with agreement of other members indicated that the existing roster was not working, and that a change was required. It was decided that Danny will step in until the end of the year and then a new roster of volunteers will be set up as Net Controllers for next year. Moved Danny VK3FDTH, seconded Rob VK3FMAC carried.

End of Year Meeting: The last meeting of the year will be held at the clubrooms on Saturday 2 December and will be preceded by a barbecue commencing at 11.30am.

Club Web Site: Jac VK3TJS to update web site to include new members and any other updates required.

Off Air Contact Numbers: If members don't mind having their telephone numbers included on the club membership list, could they please provide the numbers to the Membership Secretary Pat VK3OV.

Name Badges: Some new name badges are required and Duncan VK3MDC will provide details to Jac VK3TJS. It was decided that the Club will provide badges for new members as in the past, but subsequent badges for licence upgrades etc. will cost \$6.00.

The Vice President closed the meeting at 14.50 hours.

Source = 50 Gen/Tx

0.0 dbm	1.00 mW	10.0 dbm	10.00 mW	20.0 dbm	100.00 mW	30.0 dbm	1.00 W	40.0 dbm	10.00 W
0.5 dbm	1.12 mW	10.5 dbm	11.22 mW	20.5 dbm	112.20 mW	30.5 dbm	1.12 W	40.5 dbm	11.22 W
1.0 dbm	1.26 mW	11.0 dbm	12.59 mW	21.0 dbm	125.89 mW	31.0 dbm	1.26 W	41.0 dbm	12.59 W
1.5 dbm	1.41 mW	11.5 dbm	14.13 mW	21.5 dbm	141.25 mW	31.5 dbm	1.41 W	41.5 dbm	14.13 W
2.0 dbm	1.58 mW	12.0 dbm	15.85 mW	22.0 dbm	158.49 mW	32.0 dbm	1.58 W	42.0 dbm	15.85 W
2.5 dbm	1.78 mW	12.5 dbm	17.78 mW	22.5 dbm	177.83 mW	32.5 dbm	1.78 W	42.5 dbm	17.78 W
3.0 dbm	2.00 mW	13.0 dbm	19.95 mW	23.0 dbm	199.53 mW	33.0 dbm	2.00 W	43.0 dbm	19.95 W
3.5 dbm	2.24 mW	13.5 dbm	22.39 mW	23.5 dbm	223.87 mW	33.5 dbm	2.24 W	43.5 dbm	22.39 W
4.0 dbm	2.51 mW	14.0 dbm	25.12 mW	24.0 dbm	251.19 mW	34.0 dbm	2.51 W	44.0 dbm	25.12 W
4.5 dbm	2.82 mW	14.5 dbm	28.18 mW	24.5 dbm	281.84 mW	34.5 dbm	2.82 W	44.5 dbm	28.18 W
5.0 dbm	3.16 mW	15.0 dbm	31.62 mW	25.0 dbm	316.23 mW	35.0 dbm	3.16 W	45.0 dbm	31.62 W
5.5 dbm	3.55 mW	15.5 dbm	35.48 mW	25.5 dbm	354.81 mW	35.5 dbm	3.55 W	45.5 dbm	35.48 W
6.0 dbm	3.98 mW	16.0 dbm	39.81 mW	26.0 dbm	398.11 mW	36.0 dbm	3.98 W	46.0 dbm	39.81 W
6.5 dbm	4.47 mW	16.5 dbm	44.67 mW	26.5 dbm	446.68 mW	36.5 dbm	4.47 W	46.5 dbm	44.67 W
7.0 dbm	5.01 mW	17.0 dbm	50.12 mW	27.0 dbm	501.19 mW	37.0 dbm	5.01 W	47.0 dbm	50.12 W
7.5 dbm	5.62 mW	17.5 dbm	56.23 mW	27.5 dbm	562.34 mW	37.5 dbm	5.62 W	47.5 dbm	56.23 W
8.0 dbm	6.31 mW	18.0 dbm	63.10 mW	28.0 dbm	630.96 mW	38.0 dbm	6.31 W	48.0 dbm	63.10 W
8.5 dbm	7.08 mW	18.5 dbm	70.79 mW	28.5 dbm	707.95 mW	38.5 dbm	7.08 W	48.5 dbm	70.79 W
9.0 dbm	7.94 mW	19.0 dbm	79.43 mW	29.0 dbm	794.33 mW	39.0 dbm	7.94 W	49.0 dbm	79.43 W
9.5 dbm	8.91 mW	19.5 dbm	89.13 mW	29.5 dbm	891.25 mW	39.5 dbm	8.91 W	49.5 dbm	89.13 W
10.0 dbm	10.00 mW	20.0 dbm	100.00 mW	30.0 dbm	1.00 W	40.0 dbm	10.00 W	50.0 dbm	100.00 W

If you have something you would like to share with the other members of SADARC then send it along with any photos you may have to accompany it to typeset@bigpond.com

CLUB NEWS



BBQ in the park

The weather was fabulous on October 29 for the Family Day in Benalla. Members travelled to Benalla to gather at the Rose

Gardens for a BBQ and get together. Pictured Above enjoying lunch in the park are: From Left: Ed, Angela, Neil, Jack, Kane, Greg & Mark.

Picture bottom left: Kane, Greg & Mark and bottom right are Ed, Angela, Neil, Lisa, Jack And Kane enjoying a relaxing day.



S.A.D.A.R.C MEMBER PROFILE - VK3DSF

Name: Max Johnston

Age: 82 (7-4-1925)

QTH: Nth Shepparton

Prior Occupation: Qualified Fitter & Part time Radio

Servicing, then on to Radio Australia as Radio Broadcast Technical Officer, after completing Technicians Certificate.

First Amateur Licensed: 1975

Prior Call sign: VK3YQY

Notable Achievements: Built first

Xtal set in 1937 with guidance from Charlie VK3BH (SK) ex Railway Stn Master Violet Town, after he moved to Euroa.

Station Equipment: Icom 718 HF. / FT-290R 2M +25w Amp.

Station Antennas: Bushcom SSB 2-30Mhz. / 2M Slim Jim.

Preferred Band/Modes: Any Bands that are Active.

Main Activities: Net Control for SADARC Club Net & Broadcast. Net Control for Vintage Radio Club NE Victoria.

Most Memorable Contacts: Receiving Signals from 2CO (ABC Corowa) with Homebrew Xtal Set in 1937.

Other Radio Activities: Vintage Radio Club NE Vic, Historic Radio Society of Australia.

Awards & Certificates: SADARC Life Membership, SADARC Net Control Certificate of Appreciation, Wombat Award No 10.

Other Hobbies & Interests: Lapidary & Geology

Words of Wisdom: Think Positive.



RF Safety

Why are we concerned with RF Safety? To date, despite extensive scientific studies, the only confirmed biological danger from radio frequency energy is the heating of tissue to temperature levels that cause it to be damaged. Although there are those who believe that any exposure to RF energy must be dangerous, **the evidence does not support that belief.** Yet, people do get sick and we would like to make sure that we avoid doing any damage.

Radiation One thing that scares people is that RF energy radiates, and some use the term *RF Radiation (RFR)*. Since the word, *radiation*, is more commonly associated with atomic bombs and radioactive substances, which are quite dangerous to living organisms, RFR simply sounds dangerous. **All energy radiates and there are different types of radiation, some dangerous and some not.** For instance, a radiant heater causes heat to radiate so that we can stay warm in the winter. Yet the radiated heat is not inherently dangerous. Visible light radiates and, for the most part, is not dangerous. Radiating energy can be divided into two groups: *Ionizing Radiation* and *Nonionizing Radiation*.

The division between the two is based on frequency. **Ionizing Radiation**, by definition, is capable of knocking electrons loose from chemical substances, or *ionizing* them. Since this energy is capable of changing chemical structures, it can be extremely dangerous to living tissue. One of the more onerous results of exposure to ionizing radiation is that DNA molecules in cells are ionized and change their form. In some cases, the change of DNA can lead to cancer. **Nonionizing Radiation** is not capable of ionizing chemicals and **cannot cause cancer** as described above. Ultraviolet light has been shown to be the energy with the lowest frequency that can still ionize. Its frequency is in the range of 10^{15} Hz (1,000,000,000,000,000 Hz). The highest radio frequencies that the population is exposed to are in the range of GHz (10^9 Hz, or 1,000,000,000 Hz). Radio waves that people are exposed to are a **million times lower** in frequency than the lowest frequency that is classified as ionizing radiation.

High Frequency RF is not ELF People often lump their concerns about RF energy under one category. There are two distinct groups of energy, at least with respect to bioeffects. The energy that is emitted from power lines and appliances is often categorized as Extra Low Frequency

(ELF) and typically interacts with biological tissue through its magnetic field. The RF energy used mostly for communications has much higher frequencies and tends to affect tissue through its electric field. This energy is categorized by its frequency ranges: Medium Frequency (MF, 300 kHz to 3 MHz), High Frequency (HF, 3 MHz to 30 MHz), Very High Frequency (VHF, 30 MHz to 300 MHz), and Ultra High Frequency (UHF, 300 MHz to 3 GHz).

Amateur Radio Radio amateurs make up one of the most interesting groups to study in the field of RF Safety. Of all groups in the population, amateurs typically have the longest term exposure to a variety of frequencies at many different power levels. For instance, a person using a standard analog cellular telephone in the United States will be exposed to between 0.06 and 0.60 watts from about 800 to 900 MHz at a distance of inches the entire time he or she is talking to someone. An amateur radio operator can be exposed to up to 1500 watts of power over a frequency range of 1.6 MHz to several GHz. In the MF and HF frequency ranges (1.6 MHz to 29.7 MHz), it is customary for amateurs to keep logs of their on-the-air activities, which could prove useful exposure studies. Many radio amateurs also perform their own maintenance activities, further affecting their exposure to radio frequency energy. There are currently about 640,000 licensed radio amateurs in the United States and over 2.77 million worldwide.

RF Dangers Yet, there is still the possibility of danger from radio frequency energy, particularly at MF and above. When any energy is absorbed in tissue, it is converted to heat. The most common example of this is what happens to food in the microwave oven. Food usually tastes better after being heated. Living tissue does not fare so well. We all have experienced what it feels like to have a fever. The body controls its temperature very precisely at 98.6°F (37°C). By the time our core body temperature has risen just a couple of degrees, say to 101°F (38.3°C), we feel bad. If our body core temperature rises above 105°F (40.6°C) our lives are in danger. **RF safety guidelines prevent us from being exposed to levels of energy that can cause dangerous temperature increases in our tissues.**

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