

## **Silent Key.**

It is with regret that we begin this week, with news of a silent key.

The Westlakes Amateur Radio Club have advised of the passing of their friend and fellow club member Geoff Linthorne, VK2GL, last Saturday, at the age of 83.

Geoff was a long-time member of the Westlakes Club, and had been actively involved in QRP, amateur radio training and education, and had even built an electronic replica of an Enigma machine.

A service was held for Geoff last week, at Belmont.

Please pause with us, while we remember Geoff.

[pause 5 seconds]

Vale [va-LAY] Geoff Linthorne, VK2GL.

*Advised by Charlie VK2CLH  
on behalf of Westlakes ARC.*

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## **In the news from Amateur Radio New South Wales for this week;**

Most ARNSW members should have now received their 2019 magnetic calendars. There appears to have been some confusion, as the date on address labels was unfortunately printed in US format; so if your renewal date shows as 7/1/2019, it is due of the first of July 2019.

Most renewal dates are on the first of the month, although there were about a dozen that showed a different date, which have now been corrected. As was mentioned in the mailout, badges are available but this round of orders will close tomorrow, Monday the 14th.

At VK2WI Dural last month, work began on the tower replacement, with the pouring of the concrete base. Work will resume this week, making much of the site a construction area. There will be further information in next weeks bulletin, on arrangements for January Trash & Treasure, coming up on Sunday the 27<sup>th</sup>.

The Library at ARNSW will resume for 2019 next week, on Monday the 21<sup>st</sup>. Operation hours start in the late afternoon and continue into the early evening. Members can direct enquires by email, to [library@arnsw.org.au](mailto:library@arnsw.org.au).

Round new year, VK2ELH in northern VK2 worked ZL2BKC on 23cms. At a distance of 2419km, this was just short of the Australian record of 2455 Km. ZL2BKC runs beacons on 144.271, 432.271 and 1296.271 MHz.

If propagation is not co-operating, we have live audio of the news bulletins on our website, at [arnsw.org.au/audio](http://arnsw.org.au/audio).

## 40 Metre Dipole Buildathon

ARNSW is holding a 40 metre antenna buildathon, on Sunday the 10<sup>th</sup> of March, here at VK2WI Dural. While the day is primarily intended to be of interest to Foundation licencees, all members are of course welcome to attend.

The session will start at 10am with a brief presentation on the how and why of the dipole antenna. Following this, you will sit beside an experienced ham to assist you in constructing your own 1:1 balun. This is fairly easy, as it is in kit form, with half of the assembly already done

After completion, your dipole will be tested and following this...lunch.

The attendance fee on the day includes the antenna kit, consisting of the 1:1 balun, two insulators and 20 metres of hi-quality Kevlar antenna wire.

Also, for an additional fee we will have available kit-sets to make up some feedlines – with a 15m run of RG58 type coax, and a couple of PL-259 connectors. Again, on the day you will make this up yourself under supervision.

So, at the end of the day, you will have a fully functioning dipole antenna complete with a 1:1 balun and 15metres of feedline, ready to go on air; All of which you made yourself.

All this stage we only require an expression of interest, not confirmation of attendance – so if you are interested please send us an email, to [events@arnsw.org.au](mailto:events@arnsw.org.au) – including your name, callsign, and a contact phone number.

*AI VK2OK  
Event Co-ordinator, ARNSW*

## **ARNSW Radio Experimenters Group**

This Tuesday evening the 15<sup>th</sup> of January, the ARNSW Radio Experimenters Group will be holding their monthly net.

The net starts at 8:00pm on the Dural 2 metre repeater, 147.0MHz and then at about 8:30pm will transfer over to HF - on 80 metres, with a frequency of 3686.4 kHz. As well as store bought equipment, participants are encouraged to use homebrewed equipment on AM, DSB or SSB.

So for those interested in building their own equipment, experimenting with radios or just looking for a new aspect of amateur radio, then join the net.

The next meeting of the group is at noon on Sunday the 27<sup>th</sup> of January, after the Trash and Treasure – here at VK2WI, 63 Quarry Rd Dural.

With 5 Digital Mobile Radio (DMR) repeaters around the Sydney area and over 30 Australia wide, the DMR network is more easily accessible than ever before.

For those new to DMR, Paul VK2GX will be giving a presentation including an introduction to time slots, repeater coverage, available equipment and getting started. Learn about code plugs and the basics of DMR programming including the relationship between contacts, talk groups, receive groups, zones and scan lists, plus available programming and cloning software.

The presentation will also look at the popular “DMR plus” network, providing easy access to talk groups and group repeater reflectors world-wide. DMR Plus also supports connectivity via the DV4mini, DVMEGA and OpenSpot devices.

The meeting will start with the usual “Show and Tell” segment where members of the audience get up to show some project that they have been working on.

So come to the trash and treasure in the morning and stay for the Radio Experimenters Group meeting at noon—at VK2WI, 63 Quarry Road Dural, on Sunday 27<sup>th</sup> of January.

*Advised by Peter VK2EMU  
Coordinator, ARNSW Radio Homebrew and Experimenters Group.*

## **ARNSW Elections**

The next Annual General Meeting of Amateur Radio New South Wales is on Saturday the 13<sup>th</sup> of April 2019.

At the AGM, a new management council is to be appointed.

Nominations will soon be open for members who wish to be on the council for the year 2019 and 2020. Nomination forms will be available for download from the website, or from the office.

Nominations will close at midday on Saturday 2<sup>nd</sup> of March 2019.

*Peter VK2EMU*  
*Returning Officer*

Note: Amateur Radio New South Wales is a business name of the company registered as Wireless Institute of Australia New South Wales Division. This company was originally incorporated in New South Wales in 1922.

Since 2004, the company uses the business name Amateur Radio New South Wales to avoid confusion with the independent incorporated entity, The Wireless Institute of Australia.

# Weekly Solar and Geophysical Report

For the period of the 4<sup>th</sup> to the 10<sup>th</sup> of January.  
First, the summary;

Dates across the columns are	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>
10cm flux	72	71	72	72	71	72	70
Fredericksburg Index (Afr)	7	11	9	6	5	3	5 estimated
Australian Index (Aaus)	8	9	7	5	4	4	3 estimated
T index	-27	-19	-29	-28	-30	-39	-31

Solar flare activity was very low all week.

Geomagnetic activity was quiet to unsettled from the 4<sup>th</sup> to the 7<sup>th</sup>, then quiet from the 8<sup>th</sup> to the 10<sup>th</sup>.

F2 critical frequencies in the southern Australian region again saw some depressions; the 4<sup>th</sup> started out near predicted during local day, falling to 20% depressed at local night. The 5<sup>th</sup> and 6<sup>th</sup> were depressed 15% during the day and 20% at night; the 7<sup>th</sup> was again depressed 15% during the day but improved at night to near predicted. The 8<sup>th</sup> was depressed 15%, the 9<sup>th</sup> depressed 20%, then the 10<sup>th</sup> was depressed 15% during the day and 25% at night.

Now, the forecast for the 30<sup>th</sup> of November to the 6<sup>th</sup> of December;

Solar activity is expected to be very low.

Geomagnetic activity is expected to be mostly quiet, with some possible unsettled conditions between the 12<sup>th</sup> and 14<sup>th</sup>.

Maximum Usable Frequencies are expected to again show depressions of between 10% to 30%, due to the relatively low levels of ionising radiation from the Sun.

*Data courtesy of Space Weather Services.*

## Solar Flux Index update

Here are the updated Solar Flux Index (SFI) figures for this week.

The figures for December were;

Minimum of 68, Average of 70, and a Maximum of 72  
With peak dates between the 9<sup>th</sup> and 13<sup>th</sup>, and the 22<sup>nd</sup> to the 23<sup>rd</sup>

Nearly halfway into January, the prediction is a;

Minimum of 69, Average of 70, and a Maximum of 75  
With peak dates between the 2<sup>nd</sup> and 10<sup>th</sup>, and the 21<sup>st</sup> to the 31<sup>st</sup>

And looking ahead to the prediction for February, we are expecting a;

Minimum of 70, Average of 70, and a Maximum of 72  
With peak dates between the 1<sup>st</sup> and 4<sup>th</sup>, and the 17<sup>th</sup> to the 24<sup>th</sup>.

*Update with thanks to Noel, VK2FUL.*

[using daily data updates from :  
<http://www.swpc.noaa.gov/products/usaf-45-day-ap-and-f107cm-flux-forecast>]

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## What use is an F-call?

Tonight, we continue with the series, written and produced by Onno VK6FLAB. Each episode looks at different aspects of the diverse hobby of Amateur Radio.

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**[Play File: E-FCAL030.wav]**

*Duration: 1m33s*

*In: "What use is an F-call?"*

*Out: "I'm Onno vk6flab"*

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For more information about this series, including transcripts and useful resources for F-calls, Onno's website is; [vk6flab.com](http://vk6flab.com), or follow him on Twitter, @VK6FLAB.

## **ARRL DX news**

LIBYA; Elham, 5A0YL has been active on 20 metres using SSB at various times.

BARBADOS; Willy, KB8YRX will be active as 8P9CA from January 15 to February 4. Activity will be focused on 20 metres and FT8.

GHANA; Ruettger, DL8MEZ is active as 9G5RV until January 26 while on a training mission for medical personnel. He plans to show up daily on Med-Net and Intermar on 20 metres.

SIERRA LEONE; A large group of operators are active as 9LY1JM from Banana Island, IOTA AF-037, until January 21. Activity is on 160 to 10 metres using CW, SSB, RTTY, PSK and FT8 with four stations active.

GERMANY; Special event station DM775FLD is active throughout 2019 to celebrate the founding of the town of Friedland, 775 years ago.

GUADELOUPE; Jean-Pierre, F6ITD will be active as FG/F6ITD from La Desirade Island, IOTA NA-102, from January 14 to March 13. Activity will be on 80 to 6 metres using CW, SSB and various digital modes. He will also be active as TO7D in various contests.

GALAPAGOS ISLANDS; Gerhard, OE3GEA will be active as HC8GET from Santa Cruz, Isabela, and San Cristobal Island until January 25. Activity will be on the HF bands.

DOMINICAN REPUBLIC; Holger, DK1FY is active as HI5/DK1FY/p until January 19. Activity is on 40 to 10 metres using CW and SSB.

PANAMA; A group of operators will be active as H33J from Volcan, Chiriqui Province, until January 31. Activity will be on 160 to 10 metres using CW, SSB, RTTY, and FT8, with a focus on the low bands and FT8.

JAPAN, JA. Special event station 8N8SSF is active until February 11 during the 70th Sapporo Snow Festival on Ishikari Island, IOTA AS-078. Activity is on the HF bands.

SEYCHELLES; Mike, OE6MBG is active as S79AA from Mahe, IOTA AF-024, until February 2. Activity is on 160 to 10 metres, and 6 metres as conditions permit, using CW and SSB.

TUVALU; Antoine, 3D2AG is active as T2AR from Funafuti until January 31. Activity is on the HF bands, including 160 metres. In addition, Apinelu, T2AT is active on the HF bands using FT8.

ST. KITTS AND NEVIS; Bernie, W3UR and Becky, N3OSH are active as V47UR from Calypso Bay, St. Kitts Island, IOTA NA-104, until January 20. Activity is holiday style on 160 to 6 metres using CW and SSB. This includes an entry in the North American CW QSO Party.

INDIA; Members of the West Bengal Radio club are active with special event call AU2HAM from Ganga Sagar Mela Island, IOTA AS-153, until January 17. Activity is on the HF bands.

CAYMAN ISLANDS; Pete, K8PGJ will be active as ZF2PG from Grand Cayman Island, IOTA NA-016, until January 20. Activity will be holiday style on the HF bands using SSB. This includes an entry in the upcoming North American SSB QSO Party.

THIS WEEKEND ON THE RADIO. The North American CW QSO Party, NCCC RTTY Sprint, QRP 80-Metre CW Fox Hunt, NCCC CW Sprint Ladder, YB SSB DX Contest, Old New Year Contest, SKCC Weekend CW Sprintathon, UBA PSK63 Prefix Contest, NRAU-Baltic Contest, DARC 10-Metre Contest, Classic CW Exchange, RSGB AFS DATA Contest and the 4 States QRP Group Second Sunday Sprint are all on this weekend.

The CWops Mini-CWT Test, Phone Fray and 40-Metre QRP CW Fox Hunt are scheduled for January 16.

The Canadian National Parks on the Air, CNPOTA, operating event runs for the entire year of 2019, with special stations active from Canada's parks and historic sites.

## **WICEN News**

The next WICEN training day will be here at ARNSW in Dural, on Sunday, 10th February.

The group will be at the Wyong Field Day, Sunday the 24<sup>th</sup> of February. This is a good opportunity for members to pay their annual membership. A shift on the display is a good chance to catch-up with fellow members, and meet potential new ones.

The 2<sup>nd</sup> and 3<sup>rd</sup> of March are planned as a training weekend at Newnes, near Lithgow. This is the site of the Glow Worm Marathon, which WICEN will again support, in mid June.

WICEN NSW is sad to note the passing of one of its members, Robert VK2YV; a respected Sydney barrister, and an officer in the RAAF Reserve.

Members should remain prepared, as summer storms and fires periodically result in the services of WICEN being required.

The WICEN website is at [nsw.wicen.org.au](http://nsw.wicen.org.au) and includes a web contact form.

Facebook users will find an official WICEN NSW page, and an informal national WICEN group.

WICEN Northern Rivers holds a weekly net on Tuesdays at 8pm, on the Lismore repeater VK2RSC on 146.8 MHz, requiring a 123 Hz tone. Listen for VK2WIR. The associated Summerland ARC is supporting the Evans Head Fly-in this weekend.

The WICEN Mid North Coast Region meets at 3:30pm on the first Saturday of the month, at SES HQ, Central Road, Port Macquarie. The region is also running an HF net on Thursday evenings from 7pm, on the band-plan's 80 metre WICEN frequency of 3.6MHz.

WICEN ACT is part of the Canberra Region Amateur Radio Club, supporting events in the ACT and Capital Country, and on the South Coast of NSW. Dementia Australia is kicking off the 2019 Memory Walk & Jog season in Canberra, on the foreshore of Lake Burley Griffin, on the 24<sup>th</sup> of February, supported by WICEN ACT. The Canberra Two Day walk is March 30 and 31. See the WICEN and Events pages on [www.crarc.ampr.org](http://www.crarc.ampr.org).

WICEN Victoria will be supporting a Fun Run on January 26<sup>th</sup>, in the Rosebud - Domana area, on Mornington Peninsula. The 2019 Pajero Challenge is on the 9<sup>th</sup> and 10<sup>th</sup> of February, at Big River. Duncan's Run is an Ultra-Marathon on Saturday the 23<sup>rd</sup> of 23 March. The group runs a net on 3.6 MHz each Tuesday from 8:30pm local time. More information can be found on the website, at [vic.wicen.org.au](http://vic.wicen.org.au).

*Submitted by Julian VK2YJS,  
on behalf of the WICEN State Management Committee.*

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## Club News

We start this week, with news from the Oxley Region Amateur Radio Club.

The next meeting is the informal Friday night gathering, at 7pm on the 18<sup>th</sup> of January, in the SES Building in Port Macquarie. Amateurs visiting the area are invited to come along and meet the locals; visitors are always made very welcome at club meetings. The Friday Night gathering is an informal evening, so there is plenty of time for show and tell and socialization over tea, coffee and biscuits.

Copies of the club's very popular 2019 Calendar are still available at club meetings and activities. As in past years, the calendar has a photo of each club member, showing their callsign.

Candidates for Foundation, Standard and Advanced Licences should contact the club via PO Box 712 Port Macquarie NSW 2444 as soon as possible; Assessments for the Advanced, Standard and Foundation licences are run, once sufficient candidates have registered.

The club conducts two nets each week; the mid-week net starts at 7:30pm on Thursday nights, and the weekend net starts at 9am on Sunday mornings. Both nets are on the VK2RPM 2 metre repeater, 146.7MHz. This repeater requires a 91.5Hz sub-audible tone for access.

Visitors are always made very welcome at the club's monthly general meetings at 2pm on the first Saturday of each month, and at the Friday night gathering at 7pm on the evening of the third Friday of each month. The venue for all these meetings is the SES Building in Port Macquarie.

For more information about the Oxley Region Amateur Radio Club, visit the website at [orarc.org](http://orarc.org). The site contains a wealth of Amateur Radio items in addition to club information. The newly published January 2019 edition of the Club's bimonthly newsletter, Oxtales, is now online, and past issues are available on the website as well. The club is also on Facebook; just search for ORARC.

*Submitted by Henry VK2ZHE  
For the Oxley Region Amateur Radio Club.*

## Central Coast Amateur Radio Club

Yesterday was Project Day, with many a member brushing up on their soldering skills to build a range of kits. The Club lecture next Saturday 19th January, will be presented by Dave VK2KFU, who will talk on how the ubiquitous GPS system works. This talk had to be postponed due to him being somewhat suddenly sick, and he thanks Bob VK2AOR for stepping in at the last moment.

Don't forget the Wyong Field Day organised by the Central Coast Amateur Radio Club next month; it is the biggest hamfest in the Southern Hemisphere, on Sunday the 24th February, at Wyong Racecourse. In the meantime, should anyone have any photographs of the old Field Days then Vice-President Jaye VK2FOMG would love to hear from you.

The lecture confirmed so far include: "Impacts of Space Weather on Aviation" by Vickal Kumar; "How science works" by Brian VK2GCE; "Satellites and collecting telemetry" by Cameron VK2CKP; a talk on the RAVEN frequency-hopping military radio using valve technology by Ray VK2NO (which at the time was hush-hush); and a talk on the Multi Mode Digital Voice Modem (MMDVM) by Lindsay VK2AMV. More details on these and other activities, closer to the event.

The Central Coast Amateur Radio Club is also interested in collecting some early history about itself, so if anyone has any stories, snippets, or outright gossip then please share them, as some history appears to have fallen by the wayside as various members came and went.

All meetings of the Central Coast Amateur Radio Club are held at the Club rooms in Dandaloo St, Kariong, just past the fire station at 1pm, preceded by the famous sausage sizzle run by master chef Steve VK2SKC, starting at noon. The Club rooms are accessible by bus, with a stop just opposite Dandaloo St, serviced by the route 34 bus from Gosford railway station every hour. The Club rooms are usually open from 10.30 every Saturday, for general chit-chat and access to the Club workshop and library.

The Club relays VK2WI News broadcasts every Sunday morning and evening. Callbacks are taken after the morning news only, on the Somersby 6m and 2m repeaters VK2RAG on 53.725 and 146.725 MHz respectively; please note that both repeaters require the standard sub-audible tone of 91.5 Hz.

The Club also runs a mixed-mode repeater VK2RAG on 439.950 MHz, which is connected to the P25 network; the 91.5 Hz tone is required for analogue access, and is highly recommended for receiving.

There is a net every Thursday evening on the 2m repeater VK2RAG on 146.725, starting at 8pm; all members are encouraged to join (especially if Club news for the ARNSW broadcast is involved). Club news is happily accepted at [publicity@ccarc.org.au](mailto:publicity@ccarc.org.au), preferably by 12 noon on Friday. Listeners can “join” the net by email to [netmaster@ccarc.org.au](mailto:netmaster@ccarc.org.au) and their comments will be read out.

The Club also has a Facebook page: just look for “centralcoastarc”, and be sure to “like” it to receive further updates. There is also a Twitter account, @ccarclub [*pronounced “At CC AR Club”*].

More information about the Central Coast Amateur Radio Club, including coming events, can be found on the web site, [www.ccarc.org.au](http://www.ccarc.org.au), which will be updated soon with a completely new look.

*Dave VK2KFU*

*Publicity Officer, Central Coast Amateur Radio Club*

## Waverley Amateur Radio Society

The Society is turning 100 this year; it was originally formed in January 1919. The first licence was issued to the club a couple of years later, but the licence has been continuously maintained from then until today, apart from the World War 2 years when all amateur licenses were revoked. To celebrate, the club has obtained a special event callsign, VI2BV100, which will be on air commencing this month.

This coming Wednesday, January 16<sup>th</sup>, commencing at 7:30pm, will be the first monthly general meeting of the society for our centenary year. The meeting will be turned over to the planning of our centenary year and to the scheduling of use of the special event callsign and related issues. There will also be a report on the progress of the WIA AGM planning. As always, the tea and coffee will be available during the meeting. Many will also gather in the RSL next door from about 6:00pm for some dinner prior to the meeting. All are welcome.

There are regular get-togethers on the first Sunday of each month at Rose Bay, for those interested in learning or improving their Morse code. The group welcomes everyone keen to find out more about Morse, or CW; whether you're a beginner, want to brush up or re-learn Morse code. CW enthusiasts of all skill levels meet to swap ideas and experiences and learn about operating and contesting. The group meets 11am on the first Sunday of every month at the Rose Bay club rooms and everyone is invited, even if you aren't yet licensed. Contact us at [morsecode@vk2bv.org](mailto:morsecode@vk2bv.org) or just drop in when we meet on a Sunday morning.

The next project day will be on Saturday February 2<sup>nd</sup>, commencing at 1:30pm and going through to about 4:00 or 5:00pm. The next shack night is scheduled for Wednesday, February 6<sup>th</sup>, starting at 7:30pm. Some work is being carried out on the linear to try to get it back on air.

As usual, the club rooms are open most Tuesdays for all the retirees, idle rich, those just skipping work for the day or any others who can make it along from about 10am to about 3pm, and is back running after a short break over the holiday period.

The first Foundation course and assessments weekend for 2019 will be over the weekend of February 9th and 10th. Details, and how to book, can be found on the club website in the Education and Training section.

Don't forget the weekly net on the VK2RBV repeater on 438.1125MHz with -5.4MHz offset and 91.5Hz tone from 8:00pm every Monday.

There is full information about the Waverley Amateur Radio Society, on its website at [vk2bv.org](http://vk2bv.org), which is regularly updated. It includes the capability to renew membership, purchase items or book and pay for courses or assessments online. There is also an enquiry form on the site, which is normally actioned within a day or two.

May we wish all listeners a very happy 2019.

*73 from Eric VK2VE  
Broadcast Publicity Officer*

## Hornsby and Districts Amateur Radio Club

There will be an evening BBQ at Hornsby Rifle Range on Tuesday, January 15<sup>th</sup> starting at 6pm. The range is off Rosamond Street, Hornsby, with the access road beside the Mt Wilga Hospital.

It is at the Manly Rifle Club's rooms; outdoors if it is fine, inside if it isn't; or check on VK2RNS, 147.250 MHz if there is a serious weather event (or you get lost).

Those intending to attend, including visitors, are asked to RSVP the Committee ASAP, and please advise if you are bringing your YL, XYL or harmonics; as numbers are needed for catering purposes. There is a small charge to help offset costs, but school-age kids are free. Details are in the December – January QUA.

The Club runs three nets each week, which continue over the holiday period. Monday's net starts at 8pm on the VK2RNS 2 metre repeater, 147.250MHz. No tone is required, but a 91.5 Hz tone is sent. The 80 metre net is on Wednesday evenings on 3608.5 kHz, also from 8pm, and Morning Tea with HADARC is on or near 7106 kHz from 9am on Fridays.

The next Mt Colah meetings are expected to be on 12th and 26th of February.

HADARC's website is at: [www.hadarc.org.au](http://www.hadarc.org.au). The club has a group on Facebook, which can be found by searching for VK2MA, and on twitter, @VK2MA.

*Submitted by Julian VK2YJS  
HADARC Publicity Officer.*

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## Summary of coming events;

### January

Summerland ARC communications at the Evans Head Fly in, this weekend  
Also this weekend, is the Summer Field Day  
VI25AJ Australian Scout Jamboree, continues until the 25<sup>th</sup>  
HADARC BBQ evening in Hornsby, on the 15<sup>th</sup>  
ARNSW Radio Experimenters Group net on the 15<sup>th</sup>  
Waverley Amateur Radio Society Meeting on the 16<sup>th</sup>  
Manly-Warringah lecture night on the 16<sup>th</sup>  
CCARC Lecture afternoon on the GPS system on the 19<sup>th</sup>  
ARNSW Trash & Treasure and Experimenters Group meeting on the 27<sup>th</sup>  
Oxley Region ARC gathering on the 28<sup>th</sup>  
Fisher's Ghost ARC meeting at Woodbine on the 30<sup>th</sup>  
Manly-Warringah show-and-tell night on the 30<sup>th</sup>

### February

St George ARS gathering at Kyle Bay on the 6<sup>th</sup>  
Chifley Amateur Radio Club AGM, 2pm at their clubrooms on the 9<sup>th</sup>  
St George ARS Foundation and Assessment Weekend, also...  
Waverley ARS Foundation and Assessment Weekend, 9<sup>th</sup> and 10<sup>th</sup>  
WICEN training day at ARNSW – now on the 10<sup>th</sup>  
HADARC mid monthly meeting on the 12<sup>th</sup>  
The CCARC's Wyong Field Day, Sunday the 24<sup>th</sup>  
At Wyong on the 24<sup>th</sup>, there is also the Oz-VE group US licence exams.  
HADARC monthly general meeting on the 26<sup>th</sup>

### March

WICEN training weekend at Newnes on the 2<sup>nd</sup> and 3<sup>rd</sup>  
40 Metre Dipole Buildathon at ARNSW on the 10<sup>th</sup>  
St George ARS Foundation and Assessment Weekend, 9<sup>th</sup> and 10<sup>th</sup>