

COULSDON AMATEUR TRANSMITTING SOCIETY
G4FUR  **M1FUR**
CATS WHISPERS



Affiliated to the RSGB

June 2011

SYCOM - Official CATS Sponsor
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CATS Committee

Chairman: Glenn Rankin, G4FVL
Secretary: Steve Beal, G3WZK
Treasurer: Steve Conway, G7SYO
Members: Stuart Barber, G6CJR
Frank Emery, G3ZMF
Dennis Noe, M0NDJ
James Flint, G0SDB

CATS Whispers Editor: Steve Beal, G3WZK
email address for contributions: newsletter@catsradio.org

Regular Society Meetings

These are held on the second Monday in each month at:
St. Swithun's Church Hall, Grovelands Road, Purley, Surrey, CR8 4LA at 20:00 to 22:00

Society Nets

1st Saturday of Month - 17:15 - Crescenta Valley / CATS Net on Echolink/ GB3NS
Sunday mornings - 11:00 - Call on 145.400 MHz \pm QRM
Sunday evenings - 17:00 - Call on 3.700 MHz \pm QRM
Wednesday evenings - 21:00 - Call on 70.425 MHz

CATS Website www.catsradio.org **Email** enquiries@catsradio.org

Forthcoming Meetings

Monday Jun 13th CATS Annual DF Hunt
Monday Jul 11th Radio Susy by John, G8MNY
Monday Aug 8th CATS Barbecue at G4RWW QTH



CATS is twinned with the Crescenta Valley Radio Club
Glendale California USA www.gsl.net/cvrc

May Meeting Report

This meeting was to have featured a talk by MONAT but this was cancelled at short notice due to sickness. Instead yours truly gave a talk and demonstration of the Antenna Analyser that CATS has recently purchased.

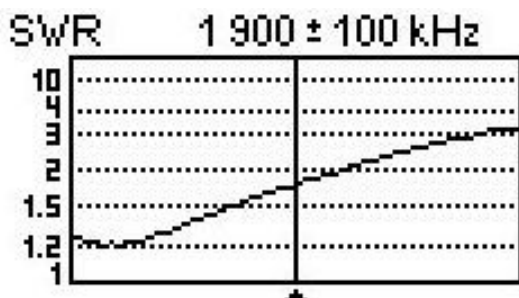


The Rig Expert Antenna Analyser

The Rig Expert AA-520 permits a wide range of measurements to be made on antennas, cables and other reactive components. These measurements include Standing Wave Ratio (SWR), Impedance, Reactance, Resistance, Inductance and Capacitance. It is also possible to measure the velocity factor of feeder cables.

Use At MF and HF

As an example, below is an SWR plot made of the editor's top band quarter wave antenna.

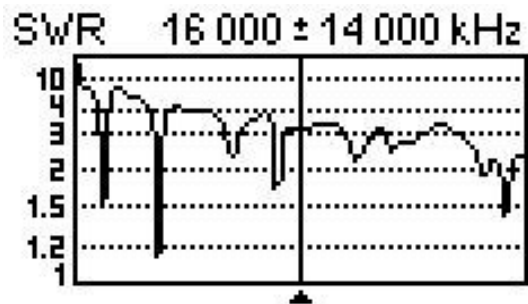


SWR plot of the G3WZK 160m quarter wave

As can be seen this presents a very good SWR at the CW end of the band, which is what I intended. The antenna is fed with about 25 metres of RG38 and using the auto ATU in my main rig, the antenna can be used effectively across the whole band. Best DX this year (2011) is 5B4AGM in Larnaca, Cyprus.

Using the antenna analyser it would be a simple matter to trim the antenna for resonance higher in the band if required.

As can be seen from the graphical display the top band measurement was made over the frequency range of 1.8 to 2.0 MHz. However, on the AA-520 it is possible to make SWR measurements at any frequency range between 1 and 520 MHz. The analyser comes with the frequency limits of all US amateur bands in this range pre-programmed and this is fine for most UK purposes. However it is a simple task to use the analyser on any desired frequency range as the graph below shows.



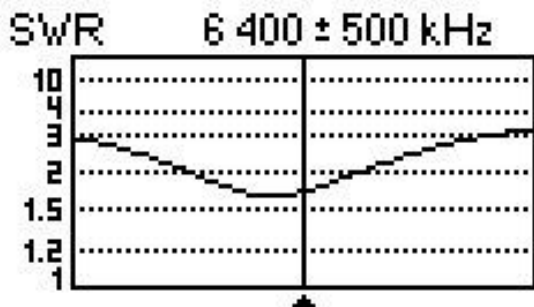
SWR plot over the range 2 to 30 MHz of the G3WZK nest of dipoles

This is the SWR plot of my main HF antenna which consists of 4 dipoles in parallel. The plot is centred on 16 MHz and thus covers the frequency range 2 to 30 MHz. Pronounced dips in SWR can be seen, as desired, at 3.6 MHz (for 80 metres), at 7.1 MHz (for 40 metres), at 14.2 MHz (for 20 metres) and at 28.5 MHz (for 10 metres).

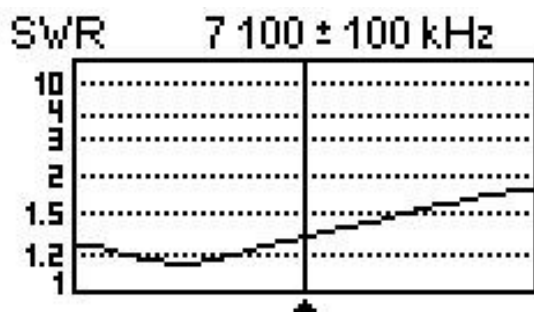
There are also lesser dips at other frequencies and although none of these dips are in amateur bands, in practice the auto ATU in my FT950 enables the antenna to be used effectively on all bands, including WARC bands, from 80 metres down to 6 metres.

The advantage of the AA-520 is that it enables any antenna's performance to be seen at a glance. Adjustments can be made and the results viewed immediately.

It is also dramatically possible to see the effects of varying antenna height. With the above antenna partially erected, the performance was very poor on 40 metres – resonance was at around 6.4 MHz and the SWR was about 1.7:1. However when raised to its full intended height, the resonant frequency rose into the CW section of the 40 metre band and the SWR dropped significantly: see below.



SWR plot of the editor's 40 m dipole partly erected



SWR plot of the editor's 40 m dipole fully erected

It is always a chore raising and lowering antennas to make measurements, but the ease with which the SWR measurements can be made makes the whole process much less tedious with an analyser such as the AA-520.

Although not demonstrated at the CATS meeting, the AA-520 can even display, simultaneously, the SWR on up to five different frequencies, either as a bar chart or with specific measurements: see below.



Simultaneous measurement on different frequencies – bar chart display

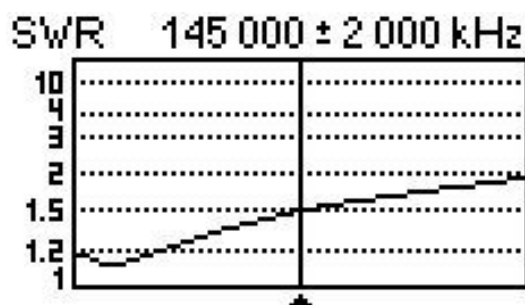
MultiSWR ()

▶ 3 650 kHz	SWR: 1.7
7 100 kHz	SWR: 1.22
10 100 kHz	SWR: 4.4
14 200 kHz	SWR: 1.37
18 100 kHz	SWR: 3.3

Simultaneous measurement on different frequencies – numerical display

Measurements At VHF and UHF

The instrument works well at both VHF and UHF and, as an example, I demonstrated the performance of my 2 metre Moxon rectangle antenna to the CATS meeting.



The G3WZK 144 MHz Moxon rectangle antenna, measured at ground level

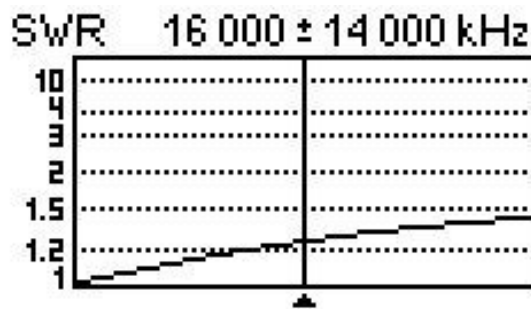
At the meeting, we also plotted this antenna's performance at three times the normal frequency (435 MHz) and the SWR readings were encouraging. I have yet to try this out on 70 cm for real, though!

This antenna works well in practice on 2m and has been aired a number of times in the regular Tuesday evening contests organised by the RSGB. I also use a Moxon rectangle on six metres. If you wish to construct one for yourself, I recommend the following website as it will calculate all the dimensions you need:

<http://n3wwn.futuretek.cx/calcs/moxon.php4>

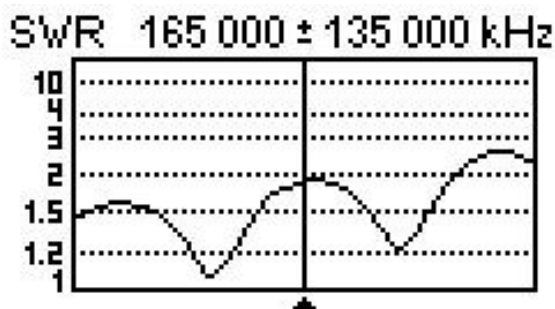
Other Measurements

I also showed the SWR plot of my home made 50 ohm dummy load. This consists of twenty 1000 ohm resistors in parallel in an old paint tin and, according to my multimeter, is a perfect fifty point zero ohms. However, using the AA-520 it is possible to build up a much more complete picture of its performance.



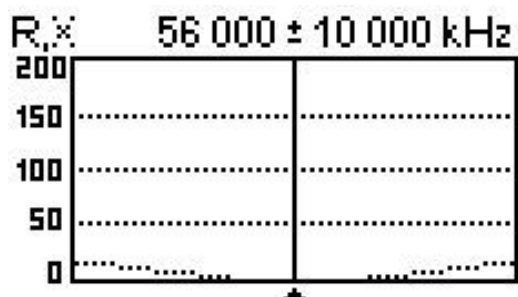
G3WZK's homebrew 50 ohm dummy load, measured at HF (2 to 30 MHz)

The SWR across the whole HF range is fine for testing transmitters into, but the SWR is creeping up towards 30 MHz suggesting all might not be well at VHF.



G3WZK's homebrew 50 ohm dummy load, measured at VHF (30 to 300 MHz)

The above plot suggests that although it might be useable as a dummy load above 30 MHz for some purposes, the undulating SWR response is far from ideal. This is probably due to resonance in the coaxial cable used to feed it - a reminder that sometimes, when antennas are not performing as expected, it may be worthwhile varying the length of the coaxial feeder to see what happens. However, this is another field where the AA-520 can be very useful, using the R, X plot mode, see below:



The reactance plot of a length of RG58 cable

The plot above is of an open-circuit one metre unterminated length of RG58 patch cable with PL259s at both ends, plotted in R, X mode using the AA-520. R is zero and the dotted curve shows that the reactance (X) falls to zero at approximately 56 MHz.

As a quarter wavelength of 1 metre in free space is equivalent to a frequency of 75 MHz, the above plot suggests that this cable has a velocity factor of $56/75 = 0.75$.

(Note that the AA-520 cannot show the absolute value of reactance so that inductive reactance and capacitive reactance are both depicted as positive quantities in the above plot.)

Other claimed features include measuring the characteristic impedance of a coaxial cable and measuring the values of unknown capacitors and inductors.

The only drawback I can find is that the unit's internal battery seems to discharge fairly rapidly in use. It has an N-connector so inter-series adaptors will be needed if the antennas under test use PL259 or BNC fittings, for example.

The AA-520 comes with a mains adaptor, carry case and strap, CD-ROM and separate printed instructions for the instrument itself and for the software on the CD. This software includes LCD2CLIP which enables images from the instrument to be displayed on the screen of a PC, using the USB lead provided. (All the screen shots in this article were obtained using the LCDCLIP software.)

CATS members may borrow this instrument for a period of one month (extendable) following the usual CATS process. I have also produced a laminated A5 basic instruction card for use in the field.

Membership Matters: Two New Callsigns In CATS

We are pleased to announce that CATS member Graham, M6XDZ, passed the Intermediate licence course on 7th May and is now the proud owner of the callsign 2E0XDZ.

It was also good news for SWL Denis Bailey on 22nd May. He passed the Foundation course run by mid-Sussex ARS in Burgess Hill at the first attempt. He is now the proud owner of the callsign M6XLS.

Well done both! We look forward to working you on the air soon.

CATS June Meeting

Here are the detailed arrangements for the 2011 CATS Annual DF Hunt which takes place this year on June 13th:

Area of hunt: Coulsdon Common/ Happy Valley. The event may be completed on foot. Bicycles can be used but are not necessary as the event has been planned to be less strenuous than last year.

Date: 13th June 2011.

Start Location: The public car park behind the Fox Public House. You may, if you wish, park at the pub and walk along the lane to the public car park. See map below.

Briefing & Registration: At the start, any time after 7:00 pm BST (1800 UTC.)

Start Time: The first transmission will be at 7:30 pm BST (1830 UTC.)

Fox operator: Glenn, G4FVL. Only G4FVL and G3WZK know where the Fox will be.

Teams: The event is open to individuals or teams. There is no need to register in advance for anyone wishing to participate. Bottle of wine to the team with the zaniest appropriately inappropriate team name.

Proposed Frequencies: 145.275MHz, FM, (proposed alternative, if unavailable: 145.550 MHz). Do not transmit on the Fox frequency as this may confuse other entrants taking bearings. Talkback (to G3WZK) may be provided on 145.400 MHz (or possibly via GB3NS) who will pass messages to G4FVL by mobile phone. Actual frequencies will be confirmed on the evening.

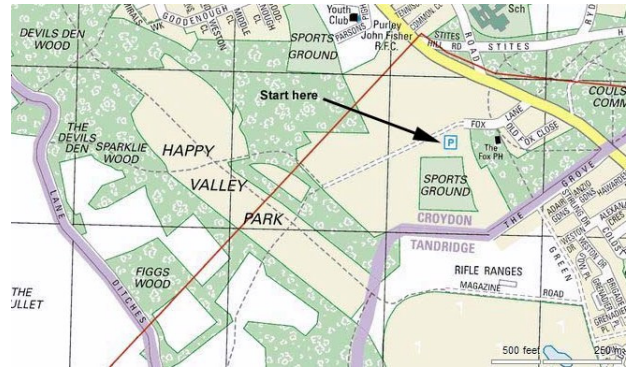
Final venue: The Fox Public House in Old Coulsdon

Transmission Schedule: 60 seconds initially, then 15 seconds every 5 minutes

Close: 21:30 (clock time)

Recommended OS Map: Pathfinder 1207 or Explorer 146 both cover the area of interest at a scale of 1:25,000. Landranger 187 also covers the area of the hunt but only at a scale of 1:50,000.

Non entrants are very welcome to attend the event if they wish.



The location of the start and finish of the CATS 2011 DF hunt. (The Fox will also be somewhere on this map.)

CATS July Meeting

This will be a talk by John, G8MNY, about Radio Susy, the community radio station for the Redhill and Reigate area. For more information, visit:

www.susyradio.com/

CATS August Meeting

This will be our annual barbecue, again kindly held at the QTH of G4RWW.

34th CATS Bazaar

To avoid possible confusion, please note that the date of this event is November 20th 2011, not as published in Radcom.

Message from the Chairman

“Hi All,

“Just a few miss spelled words about our intended Summer Sunday Contest/fun in a field day.

“The idea is to enter the July backpackers contest on 3rd July, which runs concurrently with the VHF NFD. I hope that the fact 2 contests are running means we should be able to get some contacts, especially as the VHF NFD folks will be chasing points on the Sunday. I have mentioned once or twice at the

last 2 meetings but thought I would mention in CW as we have not had many folks coming to the past couple of meetings.

“As a side idea of mine perhaps we can have some fun mucking about with some HF or kit if someone wants to play. We are looking at whether a suitable site will be available at Crossways Farm. From memory there are a reasonable amount of good pubs for lunch in the area. Indeed bring a picnic etc if that’s your bag as they say!

“How about using the station to practice any DF hunting (don’t forget they will be using a beam antenna), light transition is even an option (doubt that will bounce off even the F2 layer if we ever get one) if someone wants to build something just make it up. Hopefully the site will be relatively low RF noise as it is a fair way from large populated areas with wi fi and other nasties!

“Just pop in if you like for an hour or so to say hi.

“Of course if the weather is poor we will cancel but we could still meet up for a drink and discuss how we might have done at least.

“Contact Numbers to call on the day
My land line 0208 7638093
Or my mobile 07777 650 333 (assuming it does not cause QRM then it will be off) or on 145.400 MHz.

“What do you say? Are you up for it?”

“73 and hope to see you there.”

Glenn G4FVL

Applications (APPS) for Amateur Radio

Andy, G0KZT, writes:

“Last Christmas Dawn, my XYL, bought me an iPod Touch - just ahead of my working trip to Ballater, Aberdeenshire. While I was there I loaded EchoLink onto it and was able to call in to GB3NS (the 70cm repeater at Banstead, Surrey). Since that time I have also used it to call into the TransPonder net.

“It doesn't take long before a visit to the Apple App store reveals a wealth of useful

applications that can be used alongside Amateur Radio. To date I have a number filed in a folder and they are -:

“**Hamlog by N3WG** – Ideal as a temporary logbook for when your main computer for logging is not available. You can then upload the log using either ADIF, CSV or e QSL.cc format. It works well with my Ham Radio Deluxe software. It has other useful features such as a Maidenhead locator square calculator, Prefixes, DX Cluster and solar data to name a few. See:

n3wg.com/hamlog/

“**Maidenhead** – Simply used to calculate locator squares and view them on a map. Also allows you to view the position of a locator square.

<http://itunes.apple.com/us/app/maidenheadconverter/id313870236?mt=8>

“**UK Repeaters** – This is a database of all the UK repeaters including D-STAR. This will plot your position and show available repeaters surrounding you. By tapping on the pin it gives all the information on the repeater including the distance from your location.

<http://itunes.apple.com/us/app/uk-repeaters/id369227420?mt=8>

“**Echolink** – All the usual features including text facility except you can not be called by another station on Echolink, so no incoming calls.

<http://itunes.apple.com/us/app/echolink/id350688562?mt=8>

“Some of the features within these applications require connection to the internet. But they continue to provide some off-line features.

“It could save carrying loads of reference charts and books about for when you're at a temporary location just wanting to get the best out of your radio.”

73 de Andy G0KZT

The Chertsey Sweetshop

Have you been to the Chertsey Sweetshop lately?

A few weeks ago I met Denis (now M6XLS)

by chance in the Chertsey shop of Martin Lynch and Sons. I had gone there to sort out a problem with my Yaesu FT950 rig while Denis was buying himself “a little something for two metres.”

After Denis’ purchase had been completed and while I was awaiting the verdict on my rig, free cup of coffee in hand, we began to admire all the goodies on sale – from the most basic equipment to top of the range rigs like the Icom IC-7800 Mk 2 at a cool £8,900.

Just then, the news came through that my rig’s problem was with its very old firmware. Lynch’s staff installed the latest version in my rig, air-tested it, and pronounced it “better than new.” There would be no charge for their work – very good as I hadn’t bought the rig from them in the first place!

This isn’t the first time CATS have had good repair service from ML&S. Last year, the CATS club IC706 developed an annoying intermittent fault – no RF output. Andy, G8JAC, duly took the rig in for repair and when ML&S were unable to find the fault, they sent the rig to ICOM UK for investigation. Eventually the reply came back that the fault had been found and corrected. Apparently, a dry joint on the filter board had caused the ALC to operate and turn the RF power down to zero. A resoldered joint soon fixed the fault. Again no charge. What a service!

It was then time for Denis and I to leave, but we couldn’t resist one final look at all the mouthwatering items available. It was at this point that Denis remarked on how we were like two schoolboys in a sweetshop trying to decide what to spend our pocket money on and we both agreed that “the Chertsey sweetshop” was a rather good nickname for this particular emporium!

It could also prove to be a useful euphemism when explaining to the XYL or trying to sneak purchases back into the house!

For Sale/ Exchange/ W.H.Y.?

CATS Member Frank, G3ZMF has the following items for disposal:

1. Rackmount Racal RA17 receiver, covers 1.0 to 30.0 MHz., with photocopied manual. Weight 28 kg. Good offer sought.

2. Thousands of quartz crystals from 1 MHz to over 100 MHz, various holders.

3. Valves: QQVO-320A (£3), QQVO-640A (£5), some quick heat. Other very old valves including pre-WW2 types.

4. PSUs 12/13.8 volt, 3 amp (% amp peak). Rebuilt ex CB. A few left at £10 each.

5. Kyoritsu Clamp Meter: Clip-over ammeter, ranges 10A, 30A, 300A. AC voltage ranges 150V, 300 V, 750V, no probes. £35 o.n.o.

6. Model DL6SW 144 MHz converter: 28-30 MHz IF, 2 RF amplifiers (BF245C). Needs a box. £10.

7. Soldering station: 24V, 50 watt temperature controlled, no iron. £15.

.. plus lots of heatsinks and other bargains at CATS Central Stores.

Contact Frank on 07780 347906 or via GB3NS, 10:00 to 24:00.

Contests Coming Soon

Jun 4-5: NFD

Jun 12: 2nd 144MHz Backpackers

Jun 18-19: 50MHz Trophy Contest

Jun 26: 70MHz Cumulatives #4

Jul 2-3: VHF NFD

Jul 3: 3rd 144MHz Backpackers

Jul 17: Low Power Contest

Jul 17: 70MHz Trophy Contest

Jul 30-31: IOTA Contest

Aug 6: 4th 144MHz Backpackers

Aug 6: 144MHz Low Power Contest

Aug 7: RoPoCo CW

Aug 7: 432MHz Low Power Contest

Aug 10: 80m Club Sprint CW

Aug 14: 70MHz Cumulatives #5

Aug 25: 80m Club Sprint SSB

Sep 3-4: Sep SSB Field Day

Sep 3-4: 144MHz Trophy Contest

Sep 4: 5th 144MHz Backpackers

Sep 11: Second 70MHz Contest

Oct 1: 1.2GHz Trophy / 2.3GHz Trophy

Oct 1-2: 432MHz-248GHz IARU

Oct 16: Second 50MHz Contest

Nov 5-6: 144MHz CW Marconi

Nov 12: Club Calls

Nov 19-20: 2nd 1.8MHz Contest

Dec 4: 144MHz Affiliated Societies Contest

Dec 26-29: 50/70/144/432MHz Christmas Cumulatives Contest

Local Rallies & Events

12 Jun 2011

East Suffolk Wireless Revival

Orwell Crossing Lorry Park
A14 Eastbound, Nacton
Ipswich, Suffolk IP10 0DD
Open 09:30. Car Boot Sale, Bring & Buy Sale, Special Interest Radio Groups, Local Radio Clubs, RSGB Bookstall, Excellent Food and Facilities, Easy Parking, GB4SWR - Talk-in on 145.550MHz
Contact John G3XDY, 07710-044858 or Steve, M1ACB 07711-329624
www.eswr.org.uk

19 June 2011

Newbury Radio Rally & Boot Sale

Newbury Showground, M4 J13.
Open 09:00. Free parking, trade stands, catering, disabled facilities. Contact rally@nadars.org.uk
<http://www.nadars.org.uk/>

24 – 26 June 2011

Hamtronic Show, Friedrichshafen

Messe Friedrichshafen, Germany
Open 09:00 each day
www.hamradio-friedrichshafen.de/ham-en/index.php

3 July 2011

Norfolk ARC Barford Radio Rally

Barford 9 miles SW of Norwich close to A11 and A47
Open 09:00 (traders from 8am), CP, TI, CBS, B&B, C, TS, RSGB Bookstall, Demos.
Contact: David G7URP 01953 457322 or radio@dcpmicro.com
www.norfolkamateurradio.org

17 July 2011

McMichael Rally & Boot Sale

Reading Rugby Club off A4 east of Reading
Open 09:30. Parking, trade stands, catering.
Contact g0jms@radarc.org
www.mcmichaelrally.org.uk

31 July 2011

Colchester Annual Rally

Please note that this event has been CANCELLED.

30/31 July 2011

Amsat Colloquium

Holiday Inn Guildford GU2 7XZ
www.uk.amsat.org/content/view/724/299/

14 August 2011

Flight Refuelling Hamfest

Cobham Sports and Social Club Ground, Merley, Nr. Wimborne, Dorset BH21 3AA
Open 10:00
Further information: www.frars.org.uk

28 August 2011

Milton Keynes 51st Amateur Radio Society Rally

Bletchley Park, Sherwood Drive., Bletchley MK3 6EB
Open 09:30 trade stands, catering
Contact: Steve 07866 673192 or www.mkars.org.uk

10-11 September 2011

Gatwick Vintage Radio Weekend

Vintage Operating Group (M0VOG)
Hunters Moon, Reigate Rd(A217), Holmwood, RH6 0HU
Plenty space for overnight stay, BBQ on Saturday
Contact: Mike, M1CCF: 0208 654 2582 or m1ccf@talk.talk.net or Andy G8JAC
www.radioclubs.net/m0vog/

30 September/ 1 October 2011

National Hamfest

George Stephenson Pavilion, Newark & Nottingham Showground, Lincoln Road, Winthorpe, Newark NG24 2NY. For the latest details and ticket information, visit: www.nationalhamfest.org.uk

7-9 October 2011

RSGB 2011 Convention

Horwood House near Milton Keynes
Lecture streams
www.rsgb.org/rsgbconvention

11-12 October 2011

EMCUK Exhibition Newbury Racecourse

RSGB stand
IEEE demonstration bench
You need to register on line for free tickets at: www.emcuk.co.uk

6 November 2011

West London Radio & Electronics Show

Kempton Park Racecourse.
Open 10:00. Parking, trade stands, catering, disabled facilities. Contact info@radiofairs.co.uk
NOTE: CATS involvement in this event.

20 November 2011

CATS 34th Annual Radio and Electronics Bazaar

Provisional arrangements as follows:
1st Coulsdon Scout Group headquarters, Lion Green Road in Coulsdon, Surrey. [Map](#)
Open 10:00 to 13:00
Parking, trade stands, bring and buy, refreshments
Contact: enquiries@catsradio.org or www.catsradio.org

15 January 2012

7th Dover Radio Rally

Whitfield Village Hall, Sandwich Road, Whitfield, Dover, CT16 3LY.
Open 09:00
Parking, Boot Fair, Refreshments. Talk in on GB3KS
Contact: Ian, G3ROO, 01304 821588 or ian.g3roo@gmail.com
www.doverradiorally.com/index.html

9 February 2012

27th Canvey Radio & Electronics Rally

'The Paddocks', Long Road, Canvey Island, SS8 0JA
Open 10:30
Parking, Catering, Disabled Facilities, Trade Stands
Contact: Dave, G4UVJ, 01268 697978 (evenings)
rally@southessex-ars.co.uk
www.southessex.ars.btinternet.co.uk

Other Club News & Contact Information

BROMLEY & DISTRICT ARS

Website: www.bdars.org.uk/

Email: info@bdars.co.uk

Meetings: 3rd Tuesday of every month at Victory Social Club, Kechill Gardens, Hayes, Kent, 19:30 for 20:00.

21 Jun - Direction finding contest

19 Jul - Practical Operating Evening

16 Aug - BBQ / Natter Evening

20 Sep - 5 MHz Experiment Data Analysis

CPREC (CRYSTAL PALACE)

Website: www.gsl.net/g30ou/ or <http://www.g30ou.co.uk/>

Club Net: Wednesdays 20:00 on 145.525 MHz

Meetings: 1st Friday at All Saints Church Parish Rooms, Beulah Hill at 19:30

01 Jul – Construction evening

05 Aug – BBQ

02 Sep - Junk Box Aerials by Martin M1MRB

CRAWLEY ARC

Website: www.carc.org.uk

Club Nets: Tuesdays 20:00 on 145.550 MHz and Fridays 19:00 on 1.970 MHz

Meetings: Every Wednesday at Hut 18, Tilgate Forest Recreational Centre, Tilgate Forest, Crawley from 19:30, and Sundays, 10:30 to 13.00.

CRAY VALLEY RS

Website: www.cvr.rs.org

Contact: Richard Perzyna, G8ITB (see website)

Club Nets: Wednesdays 21:00 on 145.500/QSY and 22:00 on 3.720 ± QRM, and Sundays 11:00 on 3.720 ± QRM

Meetings: 1st and 3rd Thursdays at Progress Hall, Admiral Seymour Road, Eltham, SE9 1SL

16 Jun- DF hunt

21 Jul – Social and BBQ

18 Aug – Natter nite and members' expo

15 Sep – Christmas Island Dx'pedition Part 1 - Nobby G0VJG

DORKING & DISTRICT

Website: <http://www.ddrs.org.uk>

Email: ddrs.secretary@yahoo.co.uk

Contact: David Smith, M0SXD, 07808579501

Club Nets: Sunday 08:15 on 3.770 MHz & Thursday 20:00 on 144.775 MHz

Meetings: Friends Meeting House, Butterhill, South Street Dorking at 19:30.

Jun 28 - Electrical Safety - Robin Page-Jones G3JWI

Jul 26 - South Downs evening.

Aug 23 - Social evening.

Sep 27 - The STEPPIR antenna, Rob Barter M0ZAF.

HORSHAM ARC

Website: www.harc.org.uk

Club Nets: Saturdays 21:30 on 144.725MHz and Sundays 10:00 on 3.722 MHz

Meetings: 1st Thursday at The Guide Hall, Denne Road, Horsham, Sussex

7 Jul – Radio Researches

4 Aug – TBA

1 Sep – Tony Crake - RF Transmitters and Other Experiences

MID SUSSEX ARS

Website: www.msars.org.uk

Club Nets: Sundays 08:00 on 3.740 MHz and at 11:00 on 145.350 MHz, Wednesdays 20:00 on 145.350 MHz and Daily 13:30 on 21.330 MHz

Meetings: Every Friday at Cyprus Hall, Cyprus Road, Burgess Hill, West Sussex for 19:45

10 Jun - Fox Hunt/Direction Finding evening

22 Jul - Chairman's BBQ

12 Aug - Fox Hunt/Direction Finding evening

26 Aug - Talk on the Windmills

30 Sep - Talk by Tony G3NPF on home construction

REIGATE ATS

Website: www.gsl.net/rats

Email: rats@gsl.net

Club Nets: Thursdays 20:00 on 145.500 MHz and Sundays 20:00 on 3.740 – 3.760 MHz

Meetings: 3rd Thursday at RNIB, Redhill College, Philanthropic Road, Redhill for 19:30

SRCC

Website: www.g3src.org.uk

Contact: John Kennedy G3MCX, 020 8688 3322

Club Nets: Sunday 09:30 on 1905 kHz

Daily natter channel – 144.215 MHz at 19.30.

Meetings: 1st & 3rd Mondays at Trinity School, Shirley Park, Croydon CR9 7AT 19:45 for 20:00

20 Jun - Restoration of Vintage Radios by David M0SXD

4 Jul – BBQ

1 Aug – Talk (TBA)

5 Sep – Talk (TBA)

SUTTON & CHEAM RS

Website: www.scrs.org.uk

Contact: John Puttock G0 BWV 020 8644 9945

Club Nets: Monday 20.00 on 145.500 MHz

Saturday 11.00 on 145.500 MHz

Meetings: 3rd Thursday at Sutton United Football Club, The Borough Sports Ground, Gander Green Lane, Sutton. 19:30 for 20:00

23 Jun – (note new date) Susy Radio – John, G8MNY

21 Jul – Cassini Mission to Saturn - Revisited by Dr. Adam Masters

18 Aug – TBC

15 Sep – Repairing Vintage Radios - Dave Smith M0SXD

WIMBLEDON & DISTRICT ARS

Website: www.gx3wim.org.uk (currently unavailable)

Contact: Jim Bell M0CON 020 8874 7456

Club Net: Mondays 20:45 on 145.500 MHz

Meetings: 2nd & last Friday of each month at

Martin Way Methodist Church, Buckleigh Avenue, Merton

24 Jun - Modern Photography – Peter Beardow G1SHV

8 Jul - Preparation Meeting for Summer Camp

29 Jul - Summer Camp setup

5 Aug - Summer Camp BBQ

7 Aug - Summer Camp ends

9 Sep - Summer Camp Retrospective

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S J Beal G3WZK on behalf of the
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