

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



Affiliated to the RSGB

**February
2010**

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CATS Committee

Chairman: Steve Beal, G3WZK
Secretary: Andy Jackson, G8JAC
Treasurer: Steve Conway, G7SYO
Members: Stuart Barber, G6CJR
Frank Emery, G3ZMF
Dennis Noe, M0NDJ
Glenn Rankin, G4FVL

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
Normally via MB7IPL node on 145.2875 MHz
Sunday mornings - 11:00 - Call on 145.2875MHz.
Sunday evenings - 17:00 - Call on 3.700 MHz ± QRM
Wednesday evenings - 21:00 - Call on 70.425 MHz

CATS Website

www.catsradio.org

Email

enquiries@catsradio.org

Forthcoming Meetings

Monday 8th Feb Talk by Terry, G4CDY - "How to lose your SMD virginity"
Monday 8th March Film and video evening
Monday 12th April Lecture on microwaves (to be confirmed)



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

January Meeting Report

The 2010 CATS annual dinner was held on January 11th at the Rubbing House restaurant on Epsom Downs racecourse. A total of 20 members and guests made it although the icy road conditions did deter ten members from venturing out.



The January 2010 CATS Annual Dinner



L – R: Prue (G4RWW), Steve G7SYO and partner Wendy, and Dave G8VXB
(All photos courtesy of Andy, G8JAC)

For example, the editor and XYL Jenny were unable to make it and sent their apologies. Living in the dizzy heights of Warlingham, one of their routes had been closed due to ice for several days before the dinner. Then, on the day itself, there was a multi-vehicle pile-up (baker's lorry and four cars) on the next alternative route – again due to the ice - and this route was then promptly closed by the police too.

However all those brave enough to venture out were rewarded with a tasty meal and good service – and the beer was good too!

Membership Matters

New CATS Members

Last month we welcomed two new CATS members: Les Thacker (M3IBN) and Dan Giles.

We are pleased to announce that Dan has now got his first callsign – M6WVGK. He plans to operate from his flat in Godstone, Surrey and expects to use 2m and 70 cm initially.

Look out for Dan and Les on the air!

CATS February Meeting

The meeting on February 8th will feature a talk by CATS member Terry, G4CDY, on "How to lose your SMD virginity". In case you're an SMD virgin and don't know it, the letters SMD stand for **S**urface **M**ount **D**evices.

There will be demonstrations and hands-on practicals with illuminated magnifying lenses to assist in the process. If you have any of these items in your shack, or a personal soldering station or other tools, please do bring them along on the evening if you wish.

Don't be shy – come along and learn that sometimes smaller really can mean better!

CATS March Meeting

This will be a film/ video/ DVD evening. We have a selection of radio-related material that we intend to show, hopefully including a film about Bletchley Park – the historic site of secret British codebreaking activities during WWII and birthplace of the modern computer.

However if you have any other radio-related material that you would like to share with CATS members, please contact anyone on the committee - or simply bring it along on the evening (8th March 2010).

Subscriptions

The annual subscription to CATS for 2010 became due at last December's AGM. The rate has been unchanged for several years now and remains a bargain at only £12 a year.

Membership renewal forms have been sent to all members who didn't attend the AGM. If you are one of the eleven people who haven't already returned these to the Treasurer (now G7SYO), please do so as soon as possible. Society rules allow a period of two months grace after the AGM to renew memberships and that time is now nearly up.

Haiti Earthquake Traffic

Most readers will be well aware of the terrible earthquake that struck Haiti on January 12th. Radio Amateurs played their part in the early stages of disaster relief, much of it co-ordinated by the Canadians, who issued the following message on January 24th:

“As the recovery in Haiti continues, the IARU would like to thank Hams of the world for being there for the people of Haiti. Many messages have been successfully passed over the airwaves. Effective immediately, the frequencies 7.045MHz and 3.720MHz are released with gratitude to all who have kept them clear in the last days.

“73 de Doug Mercer VO1DTM, Vice President Field Services”

[Radio Amateurs of Canada](#)

WorldSMS **- personal thoughts by Terry Giles G4CDY**

The recent tragic earthquake in Haiti demonstrated that despite satellite 'phones, GSM etc, there are still communities in the world that cannot communicate when disaster strikes. It is a fine tradition of Amateur Radio that in these circumstances Hams are resourceful and will get messages through, but what happens if there are no Hams in the affected area? Elsewhere, there would be thousands of skilled Hams with high performance equipment ready to receive vital messages, but no-one to send them!

What is needed is a low cost simple-to-operate low power CW transceiver that can be distributed to locations around the world by aid agencies, national radio societies and other organisations, ready to provide basic communications in an emergency.

The SMS or Twitter message with its 140 characters is an adequate format for sending these emergency messages and could be sent using ultra slow data such as the QRSS technique at the rate of say one dot or baud per second. This means that an SMS message and a reply would take about an hour to send and receive. Not exactly high speed, but good enough particularly if nothing else exists.

This sort of worldwide performance is quite possible on 10 or 14 MHz with a 1 watt TX using a simple dipole in a tree or hanging from a building. The advantage would be the extensive network of Ham stations available to pick up these messages, giving - in radio terms - many levels of diversity. For example, if the signal fades at one place, it could be at a maximum somewhere else and, if all the receiving stations were linked by the internet, the message could be reconstructed bit by bit.

My suggestion would be to design a very low cost WorldSMS unit with about 1 watt output, a simple phone type key pad for entering the message and an LCD display for the response. As far as possible it would operate like a mobile 'phone, so that it could be used without any training. Ideally, it would have a built in GPS receiver to give the location of the transmitter and provide a highly accurate frequency source for locking the transmitter and providing timing, although this would not be essential.

A simple wire antenna would be in the box with instructions on how to erect it. It would have internal long-life standby lithium batteries to give immediate operation but it should also be capable of being powered by other devices such as car batteries, mains or solar panels.

Hams involved in the project, when they are not using their own station, would leave their equipment powered up and controlled via the internet, a bit like an Echolink station. As soon as there is news of a disaster, they would turn on their rigs and use their skills to help the network. No special monitoring/responding stations would be needed as the transmitted messages would be addressed to a normal email address or SMS 'phone number.

The scheme would be independent of media such as satellite phones with their high initial costs and call charges, Even if - heaven forbid - there were nuclear explosions in the atmosphere and all satellite communications was knocked out, good old HF would still get the message through.

At times when there are no emergencies, the network could be used by jungle, polar and similar expeditions to pass routine messages.

There are a few technical challenges but most have already been solved by people using QRSS and JASON techniques. The main challenge would be in getting approval for the equipment to be used by un-licensed operators in the amateur band. This could be helped by getting support of agencies like the Red Cross, UNHCR, Salvation Army, OXFAM and the national radio societies.

My idea would be to put together an international working group to solve the technical and political issues. Anybody want to join me?

73 de Terry
terry@g4cdy.co.uk

Thinking Day on the Air



21st February is the date to put in your diaries for Guides Thinking Day On The Air 2010. After an 8:30 am start, CATS will again be helping the South and Upper Norwood Guides, callsign GB4SUN. As in the previous two years, contact Stuart G6CJR if you would like to help (01737 356201). The event takes place at the [Radcliffe Centre](#), Harding Close, Radcliffe Road, Croydon, CR0 5QZ. Click [here](#) for a location map.

Brass Monkeys Contest

This 24 hour dual band (144/ 432 MHz) contest is being held on 6th/ 7th March this year, start time 1400 clock time.

Despite its name, the weather can be surprisingly good. Last year, for example, although it was windy and became stormy when we were clearing the site, the

temperature on the Saturday actually reached a balmy 12.3 Celsius – not bad for early March - and a good time was had by all !

The CATS station will operate from the usual site in Nore Hill, Warlingham, NGR 538525, 156543. As usual, the more people who volunteer to help set up, dismantle or operate the better, so if you would like to support our entry, please contact the Contest Secretary, Frank G3ZMF, urgently.

Contests Coming Soon

Feb 7: 432 MHz – AFS
Feb 13/14: 1st 1.8 MHz
Feb 28: 70 MHz Cumulative #1
Mar 6/7: 144/ 432 MHz “Brass monkeys”
Mar 13/14: 3.5 – 28 MHz Commonwealth
Mar 14: 70 MHz Cumulative #2
Apr 4: 3.5 MHz 1st RoPoCo
Apr 4: 1st 70 MHz
Apr 11: 1st 50 MHz
May 1: 432MHz Trophy
May 1: 10 GHz Trophy
May 1/2: 432MHz-248GHz
May 9: 70MHz CW
May 15/16: 144MHz
May 16: 1st 144MHz Backpackers
May 23: 70 MHz Cumulative #3
Jun 5/6: 1.8 – 28 MHz NFD
Jun 13: 2nd 144MHz Backpackers
Jun 19/20: 50MHz Trophy
Jun 20: 50MHz Backpackers
Jun 27: 70 MHz Cumulative #4
Jul 3/4: VHF NFD
Jul 4: 3rd 144MHz Backpackers
Jul 18: 3.5 and 7 MHz – Low Power Field Day
Jul 18: 70MHz Trophy
Jul 24/25: 3.5 to 28 MHz – IOTA
Aug 1: 3.5 MHz - 2nd RoPoCo
Aug 7: 144MHz Low Power
Aug 8: 432MHz Low Power
Aug 15: 70 MHz Cumulative #4
Aug 22: 4th 144MHz Backpackers
Sep 4/5: 3.5 to 28 MHz – SSB Field Day
Sep 4/5: 144MHz Trophy
Sep 5: 5th 144MHz Backpackers
Sep 12: Second 70MHz
Oct 2: 1.2GHz Trophy / 2.3GHz Trophy
Oct 2/3: 432MHz-248GHz IARU
Oct 3: 21 & 28 MHz – CW & SSB
Oct 17: Second 50MHz
Nov 13: 1.8 MHz – Club Calls
Nov 21/22: 2nd 1.8 MHz
Nov 6/7: 144MHz CW Marconi
Dec 5: 144MHz Affiliated Societies
Dec 26 to 29: 50/70/144/432MHz Christmas Cumulatives



SHAK NOWTZ BY "MAD" FRANK - G3ZMF

SHAK NOWTZ No 8 - Antenna Rigging & Erection

Editor's Note: When I worked in the Telecommunications industry, the "Gin Pole" method of raising a mast or tower as described below by Frank, G3ZMF, was known as the "Falling Derrick" method. There is a school of thought that defines a Gin Pole as a vertical or near-vertical pole on top of another structure that is used to raise, for example, an additional tower segment onto the top of an already erected structure. However, in this article, we have used the term "gin pole" as it is in common usage locally although it is, essentially, the falling derrick method. Google returns 8000 radio-related entries when searching for "gin pole" but only 400 when searching for "jin pole". We have therefore used the "gin" spelling throughout.

Introduction

Happy New Year everyone, hope you had a good one and Santa brought you all the pressies you asked for.

It's time to get that mast in the air ... safely I have always stood by the principle of 4-way guying. Not only for safety reasons but because it also means you can raise a 20 metre mast with very few people, and even fewer people are required to lower the mast for antenna change or repair although use of a block and tackle may be advisable or even essential.

I have also been researching into knots. You will find some pointers to useful sources of information at the end of this article.

Small Masts

Going up in stages of increasing height, at 15 to 20 feet generally two people can raise a mast safely, one on the base to keep it grounded and the second to "walk up" the mast – but not before you have set out and secured all the guy ropes. (See fig 8.1.a)

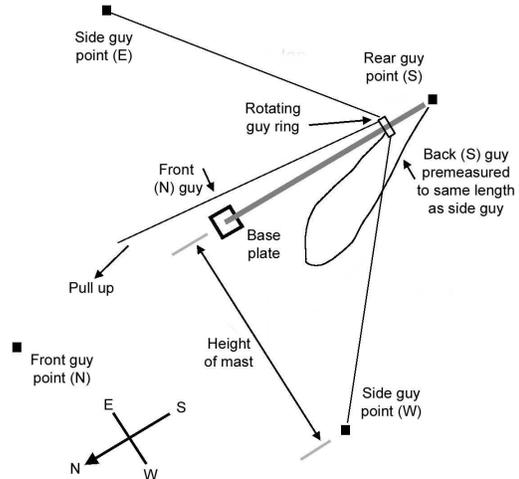


Fig 8.1a - Basic guying arrangement for simple small mast (plan view)

Guying stakes should be, as near as possible, at 90 degrees to each other and equidistant from the base of the mast. The easiest way to achieve this is by using a triangle of rope or string with a loop at each "corner." See fig 8.1 b below:

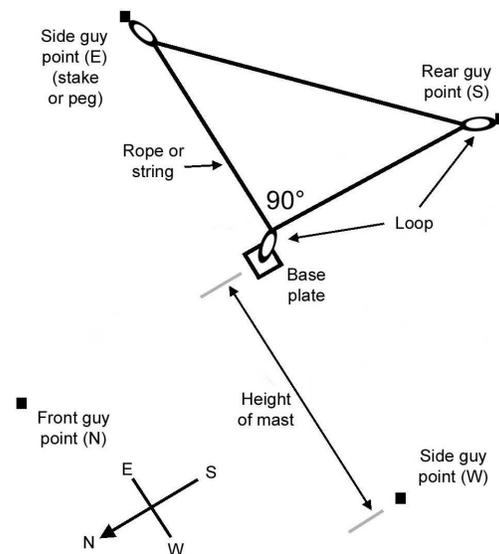


Fig 8.1 c: Arrangement recommended by G3ZMF for accurately setting out guying points

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The two "short" legs are from the base point of the mast, to two of the guying points (say South and East.) The long leg forming the triangle goes peg to peg, South peg to East peg. Two pegs in – two to go. Leave the South peg rope where it is and transfer the East peg to the West pegging point and put a peg in. Three down, one to go. Now transfer the South peg to the North pegging point and put your peg in. Now check for alignment by sighting the far peg from where you stand, eg North looking South, and check that the base point is exactly in line. If not, recheck the triangle rope lengths. To get a 90 degree angle, use the same method that the groundsmen use on football pitches. A triangle of 3 ft x 4 ft x 5 ft made of wood (say 1" by 2") - see fig 8.1c below:

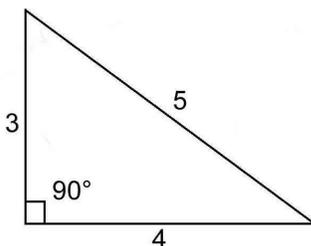


Fig 8.1c: 3, 4, 5 triangle as used for setting out ropes at a right angle (90 degrees)

Before you raise either the gin pole or the mast make sure that the mast base cannot move. Don't forget that there will be very large stresses at this point. Try to use some form of anchored and pivoting connection from the main mast to the base plate. If a rotator is to be fitted at the base, fix it after the mast is up to avoid strain on the rotator. **Slacken guy ropes slightly and lift up bodily 10 to 15 inches and slot the rotator in.**

Now your main mast is in the ground and ready to have its guys attached. Again, for ease of reference, the mast lies to the south of the base point. Tie off the east and west guys firmly. Now take the South guy which will effectively be the back guy to either the East or West guy point and mark, or grip tight, to this distance. Now secure this back guy to the South stake. Yes, it is loose, but when the mast is vertical the back guy will be there (a) to stop the mast going over the top and (b) means that only on the North side will any effort be needed to pull the mast up into place.

Medium Masts

By the time you are thinking about higher masts, you should also be thinking about a gin pole, shorter than the main mast, but effectively pulling up the mast from 10 feet or more above ground. (See fig 8.2.) The purpose of the shorter gin pole is to apply a lifting force from a high vantage point, so reducing the overall pull required, plus avoiding the dreaded banana mast system. (Seen it, done it, had to straighten the poles!)

In the same way as guying the main mast, the gin pole must have its side (East + West) guys secured. As in the back guy of the main mast, the front (North) guy is pre-measured and securely tied to the top of the gin pole. Then, either a gin rope or a block and tackle is fitted from the top of the gin pole to the front (North) guying stake.

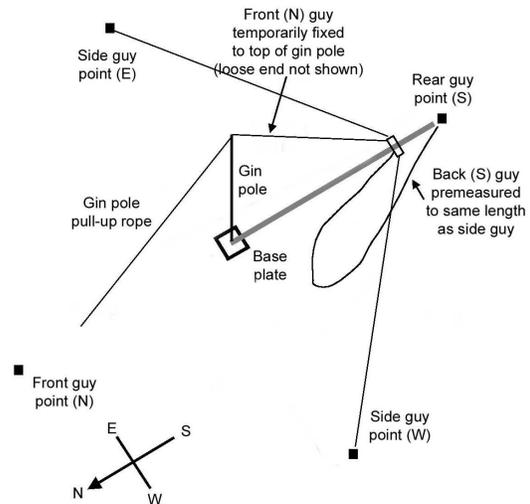


Fig 8.2 a: Using a gin pole (falling derrick) to raise a large mast. Note that for simplicity only one set of guys is shown here: in practice two sets would be advisable, one set attached to the top of the mast arrangement and the other around halfway up. Also, for simplicity, additional gin guying is not shown but may be needed for a large installation.

Pull/ push up the gin pole to the vertical and fix the mast's North guy to the top of the gin pole. Then secure the gin pole's side guys (east plus west) if used. Heave away on the gin pole and pull up the main mast – but do not disconnect

SHAK NOWTZ No 8 - Antenna Rigging & Erection

the gin from the mast guys yet! Check that the mast is vertical with respect to the two side guys (East + West) plus the back guy (South).

Adjust all guys to get it right.

Now carefully lower the main mast, preferably onto some form of support below where the lower antenna or rotator will be, so that the mast can be rigged. Test those aerials at ground level if you can. Then up we go, carefully not forgetting to secure the coax antenna feeders and rotator cable to one of the main mast side guys for support. You don't want a cable breakage due to wind etc once the contest starts and the "rigging crew" have gone down to the pub or chip shop!

Carefully transfer the front (north) guy from the gin mast to the north ground stake, stand back and admire your efforts!

The gin pole can now be removed until it is needed another time.

Large Masts:

Now we move onto "monster" or "heavy head load" masts. In this situation for say a 66 ft (20 m) mast, the 10 to 15 foot gin pole cannot provide a good lift while minimising bending stresses. So we use the gin-gin system – basically a 12 to 15ft (3-5 metre) gin is used to pull up a 33 to 39 ft (11 to 13 metre) gin, which is then used to erect the main structure.

The procedure for mast and main gin is the same as for a single gin, but now the primary gin must be side-guyed with one side guy to the North stake and the other to the South stake. Check and recheck that your guys will not cross or tangle. Once the main gin is in place, the smaller gin pole can be put away until it's time to de-rig the system. (See fig 8.3.)

The advantage of not fitting the antennas before the mast has been test-erected is that the larger gin pole will be clamped to the main mast and butted up as close as possible to the main ginning point. Otherwise, follow through the safety rigging system as before.

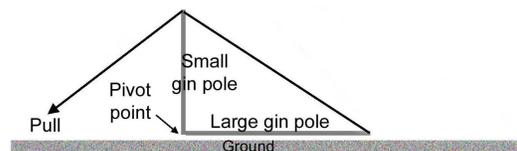


Fig 8.3a: Using a small gin pole to raise a larger one

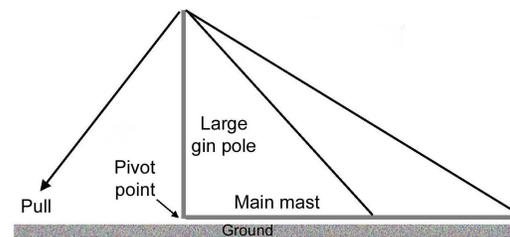


Fig 8.3b: Subsequently using the larger gin pole to raise the main mast

Knots:

There are many on-line sources of information about knots and how to tie them. I recommend the following site, because it illustrates 18 knots from bowlines to sheepshanks, from anchor hitches to sheet bends, and if you click any of the 18 images you will see a short animation of how to tie that particular knot:

www.tollesburysc.co.uk/Knots/Knots_gallery.htm

Future issues of Shak Nowtz will cover "Slim Jim" antennas and "Homebrew Test Kit & Things". I also plan to write one that will be a collection of handy circuits. However, if there's anything else that you would like to see covered in a future issue of "Shak Nowtz", please let me know and I'll see what I can do. Have fun!

73 de Mad Frank G3ZMF

[1] Knots and Splices by Colin Jarman, published by Adlard Coles Nautical, ISBN 0-7136-7748-1

Local Rallies & Events

7 February 2010

25th 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)
www.southessex.ars.btinternet.co.uk

14 February 2010

Harwell Radio and Electronics Rally

Didcot Leisure Centre, Mereland Road, Didcot, OX11 8AY, Oxfordshire. Radio, electronics and computing trade stalls, secondhand stalls, special interest groups, displays. Refreshments.
Open 10:30 to 15:30.
Contact: Ann Stevens 01235 816379
www.q3pia.org.uk
e-mail rally@q3pia.org.uk

28 February 2010

Rainham Radio Rally

Rainham School For Girls, Derwent Way, Gillingham, Kent, ME8 0BX
Contact Trevor, G6LYW, 0771 7678 795

7 March 2010

Cambridge and District ARC Rally

Wood Green Animal Shelter, King's Bush Farm, A1198 London Road, Godmanchester, Cambs, PE29 2NH.
Open 10:00/10:15. Admission £3. Talk in. Trade. B&B. Catering with bar.
Disabled facilities. SIGs. Raffle. Lectures. Family attractions.
Contact David M0GUM, 01954-203080.
rally2010@cdarc.co.uk
www.cdarc.co.uk

7 March 2010

Bournemouth RS 21st Annual Sale

Kinson Community Centre, Pelhams Pk, Millhams Rd, Kinson, Bournemouth, BH10 7LH. Open 09:30. Free parking, trade stands, catering, disabled facilities. Contact John G0HAT 07719 700 771.
<http://brswebsite.org.uk/>

18 April 2010

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.

23 May 2010

Dunstable Downs RC National Amateur Radio Car Boot Sale

Stockwood Park, Luton, M1 J10
Open 09:00. Talk in on S22
www.ddrcbootsale.org

25-27 June 2010

Hamtronic Show, Friedrichshafen

Messe Friedrichshafen, Germany
www.hamradio-friedrichshafen.de/html/en

20 June 2010

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/>

18 July 2010

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

29 August 2010

Milton Keynes 51st Amateur Radio Society Rally

(venue tbc) Holne Chase School, Buckingham Road, Bletchley MK3 5HP
Open 09:00 trade stands, catering
Contact: Mike G3LFR: 07866 673192 or
www.mkars.org.uk

8 August 2010

Flight Refuelling Hamfest

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

1/2 October 2010

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

8/9/10 October 2010

RSGB Convention

Wyboston Lakes Conference Centre

Lecture streams (see September issue of CW)
www.rsqb.org/rsqbconvention

12/13 October 2010

EMCUK Exhibition

Newbury Racecourse

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

21 November 2010 –

CATS 33rd 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

Other Club News & Contact Information

BROMLEY & DISTRICT ARS

Website: www.bdars.org.uk

Email bdars-news@talk21.com

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

CPREC (CRYSTAL PALACE)

Website: www.gsl.net/g3oou/ or <http://www.g3oou.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

5 Feb - AGM

5 Mar - History Of Power Supplies Part 2

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.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

DORKING & District RS

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.

Feb 23 - WSPR - Walter Blanchard G3JKV

Mar 23 - How many radials? - Understanding the quarter wave vertical - Garth Swanson G3NPC.

Apr 27 - DF techniques and events - Alistair G3ZBU.

May 25 - The British Army's battlefield radio in WW2 - Prof. Tony Davies.

Jun 22 - Air Traffic Control - Ross MacDonald.

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

4 Mar - Junk Sale

1 Apr - The Beginning of Airborne Communication and Navigation - G3GDU

6 May - RSGB HQ station GB7HQ during the IARU

Contest 2009 - John Warburton G4IRN

3 Jun - Travels With My Radio - Roger Western G3SXW

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

19 Feb: Talk - Newhaven Fort Museum by

Eddie Wilson

26 Feb - Radio Night & Table Top Sale

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: Ray Howells G4FFY 020 8644 7589

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

1 Mar - Spring Surplus Equipment Sale

12 Apr - AGM

10 May - Construction Evening

7 Jun - Construction Contest

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

18 Feb - 'An Introduction to Military Communications'.

Mike O'Beirne G8MOB

18 Mar - 'Operating Digital Modes on HF' by Evan

Duffield - M0TJU

15 Apr - 'Kite & Balloon Supported Antennas' by Roger

Stafford - G4ROJ

20 May - AGM

WIMBLEDON & DISTRICT ARS

Website: www.gx3wim.org.uk

Club Net: Mondays 20:45 on 145.500 MHz

Meetings: 2nd & last Friday of each month at

Martin Way Methodist Church, Buckleigh Avenue, Merton Park SW20. 19:30 for 20:00

12 Feb - On Air and Construction

26 Feb - Amateur TV by John G8MNY

26 Mar - Commercial Satellite Communications

by Peter Beardow G1SHV

9 Apr - Surplus Equipment Sale

14 May - Direction Finding Hunt

28 May - Vintage Rig Evening

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