

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



**July 2011**

Affiliated to the RSGB

**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](mailto: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](http://www.catsradio.org)

**Email**

[enquiries@catsradio.org](mailto:enquiries@catsradio.org)

**Forthcoming Meetings**

Monday Jul 11th Radio Susy by John, G8MNY  
Monday Aug 8th CATS Barbecue at G4RWW QTH  
Monday Sep 12th CATS Equipment Sale (change of event)



CATS is twinned with the Crescenta Valley Radio Club  
Glendale California USA [www.gsl.net/cvrc](http://www.gsl.net/cvrc)

## **June Meeting Report: The CATS Annual DF Hunt**

The 2011 CATS DF Hunt took place on a beautiful warm summer evening and was attended by eight members and five guests. The hunt was based on and around Coulsdon Common and the conveniently sited and aptly named "Fox" public house. The DF Fox, on the other hand was Glenn G4FVL who was hidden in some trees nearby.



Steve G7SYO and partner Wendy  
The antenna is a ZL special

Despite Glenn's proximity, it took the best part of two hours for anyone to find him. When he was found, it was achieved simultaneously by Steve G7SYO and Wendy (the "No Hoppers" team) and Ian M3IGP of the "Rabbit" team. The other members of the Rabbit team (Prue G4RWW and Graham) had retired early as had the "Orpheus Madness Crew" of Russell, Steven and Jo from the Orpheus Centre in Godstone.



Prue G4RWW, Ian M3IGP and Prue's friend Graham.  
Ian is holding a tape measure antenna, popular among  
CATS members

The Rabbit team and the No-Hoppers teams were declared joint winners, after which everyone retired to The Fox (the public house, that is) where CATS members such as Mike G6YOG, Gerry G8NNT, Dennis M6XLS and Steve G3WZK had been monitoring the situation in comfort on their 144 MHz radios.

Although the turn-out of competition entrants was disappointing, it was a very pleasant summer evening and the event was enjoyed by all.

Many thanks to the CATS Chairman Glenn G4FVL for all his hard work in organising and running this event.



Alternative DF hunt – courtesy of EA7HXQ

## **Membership Matters:**

CATS member Len G0GNQ is unwell following a recent heart attack. He is home from hospital now and we wish him a speedy recovery.

## **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/](http://www.susyradio.com/)

## CATS August Meeting

This will be our annual barbecue again kindly held at the QTH of G4RWW. As usual, this event is open to fully paid up CATS members. You must bring your own drink but the food is free. We look forward to seeing as many members (and partners) as possible. All we ask is that you advise Prue or me ([secretary@catsradio.org](mailto:secretary@catsradio.org)) if you are planning to attend.

We are also looking for a grillmeister. Again, please contact Prue or me if you are willing to volunteer for this.

## CATS September Meeting

This meeting will now be a sale of surplus equipment from the CATS Asset Register. Please note that as this equipment is already owned corporately by CATS members, bidding at the sale will only be open to fully paid up CATS members.

To prepare for this meeting, the committee has verified the asset register, decided what to sell, and will set reserve prices for the items it considers suitable for disposal.

Items not disposed of at this meeting will be made available for sale at the Kempton Park rally and/or the CATS Bazaar. (To avoid possible confusion, please note that the date of this event is November 20th 2011, not as recently published in Radcom.)

## DX Station Service

Thanks to Mike M1CCF for tipping us off about the following:

Radio amateurs now have a helping hand in their quest for contacting rare or distant radio stations.

'DX Station' is an innovative SMS text message service that alerts radio amateurs when the sought-after radio station's signal is spotted on the radio dial.

In this internet age, the radio amateur hobby is still very popular, with millions of licensed 'hams' around the world. Many of them operate on the shortwave bands, where it is possible

with relatively simple equipment to contact radio amateurs in distant countries.

The American Radio Relay League (ARRL) offers a range of awards and certificates for amateurs who succeed in contacting other hams in more than 100 countries. Those who achieve contacts with every country are eligible to join the coveted 'Honor Roll' - an achievement which can take decades of hard effort to obtain. Awards are also offered by the Radio Society of Great Britain (RSGB) for contact with ham stations on islands.

To assist in tracking down those elusive radio signals from far-flung corners of the globe, DX Station operates a network of automated radio receivers, which constantly monitor the radio amateur bands for sought-after stations, and then instantly sends a text message alert to those hams who have indicated their interest in contacting that particular 'DX' station.

The use of real-time text messages gives subscribers to DX Station a competitive advantage, since they can hopefully contact the distant radio station before their colleagues join the fray. Since thousands of hams may be seeking contact with a single amateur radio station, the resulting cacophony of calling stations can hopefully be avoided by being 'first to know' that the rare station is on the air.

DX Station cannot guarantee that the radio amateur will be able to contact the distant station - that is down to radio signal propagation and the efficiency of antennas and transceivers of both calling and receiving radio station. But it can certainly put the canny ham ahead of the crowd!

The DX Station text messaging service can be used on more than 800 mobile networks worldwide, and the low monthly subscription fee is easily paid by Paypal or credit card. These fees, which include a quota of text message credits, are used to maintain the network of automated radio receivers that the DX Station service relies upon for its operation.

A reduced fee trial is offered for the first month of subscription. Alert profiles are managed via a user-friendly interface on the service web-site at [www.dxstation.com](http://www.dxstation.com)

Contact Details:

Web-site : [www.dxstation.com](http://www.dxstation.com)  
Email : [gso@dxstation.com](mailto:gso@dxstation.com)

## **McMichael Rally 2011**

The following message is from Dave, G4XDU:

“Coming up on Sunday 17th July is the 2011 McMichael Radio Rally. Our rally has become the premier amateur radio rally in Berkshire, and has been running continuously for well over 20 years. Our rally has now changed to include a larger car boot sale but we still have traders and many special interest groups,

“Martin Lynch and Son is now a regular at the rally and will be seen heading up the boot sale. We should have entertainment for the young which all can enjoy. The site we now use is the Reading Rugby Football Ground, Sonning Lane just east of Reading off the A4, easily reached from the M4 motorway. There is a 2m talk in station. The site has loads of free parking, and full bar and catering facilities are available.

“Entrance is only £2.00 per person, under 18s come in free, and entry includes a free raffle. Opening time is 9.30am. If you would like to be part of the car boot, pitches are £10 and setup is from 8.00am. Entrance includes driver and one passenger.

“We look forward to welcoming you and your club members to our rally, and I hope you will be able to inform your members in case they haven't seen the advertisements in the radio press.

73 Dave G4XDU Secretary McMichael Rally

Web Site: [www.McMichaelrally.org.uk](http://www.McMichaelrally.org.uk)

## **A Mystery From G7SYO**

Steve G7SYO writes, “The following took my interest because it reminded me of when I was learning morse and writing down the random 5-letter groups being sent by my morse trainer. My copy scripts ended up looking something vaguely like these two cryptic messages (see page 9 of this issue of *Cats Whispers*).

The two messages were notes found by the FBI in 1999 on the murdered body of 41-year-old Ricky McCormick. No-one has ever managed to decrypt these odd messages, or solve the crime, so the FBI has published them to see if anyone can help solve the murder mystery.

If you have an idea how to break the code, have seen similar codes, or have any information about the Ricky McCormick case, send them to the FBI online at <http://forms.fbi.gov/code> or write to them at the address given on the FBI website:

[www.fbi.gov/news/stories/2011/march/cryptanalysis\\_032911](http://www.fbi.gov/news/stories/2011/march/cryptanalysis_032911)

## **New battery design uses flow media**

Steve G7SYO came across an interesting article in the June edition of Elektor magazine. It is about a new design of battery in which the electrolyte is pumped through each cell to generate the electrical energy.

Although this is not a new concept, the latest design is claimed to have ten times the energy density of previous versions, thus making it a front runner for automotive applications – and possibly also for field day amateur operations.

For more information, see:

[www.elektor.com/news/new-battery-design-uses-flow-media.1851756.lynkx?utm\\_source=UK&utm\\_medium=email&utm\\_campaign=news](http://www.elektor.com/news/new-battery-design-uses-flow-media.1851756.lynkx?utm_source=UK&utm_medium=email&utm_campaign=news)

## **The Quickest QSL For The Longest Contact**

Last Saturday morning, I turned the HF rig on at about 8 am, rather earlier than I normally do, and tuned in to 20 metres SSB. The first station I heard was an EI at around S5 with me. Relatively unusual for 20m but not that surprising. He was working a station in Perth, Western Australia, who I was receiving at about R5S3. The two were having a proper QSO (to my mind) – not one of those rubber stamp “59-TU-and-onto-the-next” type of contacts.

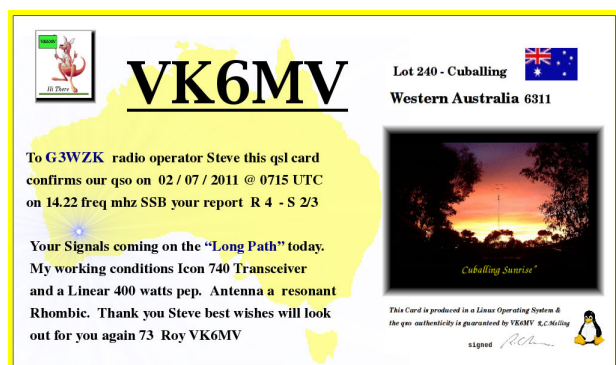
Eventually they finished their chat and having nothing to lose, I gave the VK a call. I didn't expect a reply as the EI had been running 400 watts to a three element yagi and my system is much more modest. I was sure that someone else's signals would be heard in preference to my mere 100 watts to a dipole. However the

VK came right back to me and although it was a struggle at both ends, we managed to complete a proper contact, with full information including rig details being exchanged.

Feeling very pleased with myself, I felt that a QSL card would be justified, but sadly the VK station doesn't do normal QSL cards.

However, his entry on qrz.com revealed that he was on email and would send out printable QSL cards if requested. I duly composed a suitable request and pressed the send button before starting work on my normal Saturday chores.

Imagine my surprise the next day when, on Sunday morning and less than 24 hours later, there in my Inbox was a reply from Perth – with a QSL card as an attachment!



The QSL card from VK6, confirming contact via the long path - a computed distance of 24968.6 km

I think this must be some sort of a speed record (over 1000 kph) for QSLing, unless anyone knows better...

## CATS Contest Participation

As many of you know, CATS had hoped to hold a Radio Fun Day on July 3rd. Unfortunately, we were unable to find a suitable location for this event, coinciding as it did with VHF NFD and the 144 MHz backpackers contests. We therefore decided to abandon this proposal.

There remains a possibility of CATS participating in the low power contest on 6th August (2 metres) and 7th August (70cm) and Frank G3ZMF is keen to organise this. Please contact him or any committee member urgently if this appeals to you.

## Contests Coming Soon

### 2011 :

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

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

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

Liebert UPS, Model PowerSure interactive 2200 (2.2 kWh). Circa 2002. Needs new batteries 8 x 6 volts, 20 AH. (Dead one supplied for size.) No reasonable offer refused.

Frank is also looking for quartz crystals on the following frequencies if any one can help: 8.875 MHz, 11.71 MHz and 26.625 MHz.

Contact Frank on 07780 347906 or via GB3NS, 10:00 to 22:00 local time.

## Shak Nowtz

Over the page you will find the twelfth in the series of articles written by "mad" Frank, G3ZMF. This one includes some more useful circuit building blocks.



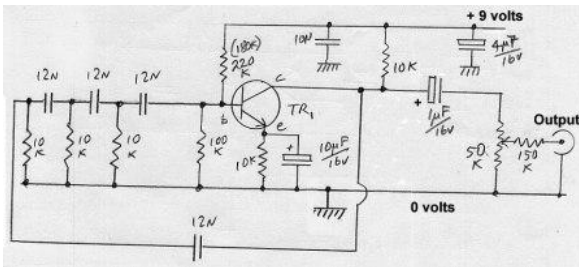
# SHAK NOWTZ BY "MAD" FRANK - G3ZMF

## SHAK NOWTZ No 12 – More useful circuit building blocks

### Introduction

Here are some more circuits that I have built and work well.

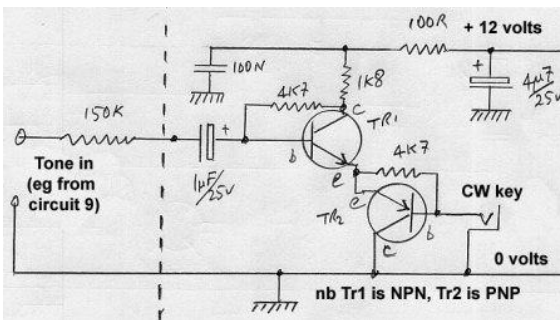
### Circuit 9: Sine wave oscillator



Simple sine wave oscillator

In this circuit Tr1 can be a 2N3904, BC107, BC108 or BC109. It produces a signal of 2 volts p-p at 800 Hz. For a higher output level, it may be fed into the amplifier in Circuit 1 (see Shak Nowtz no.11).

### Circuit 10: CW keying



CW keying circuit

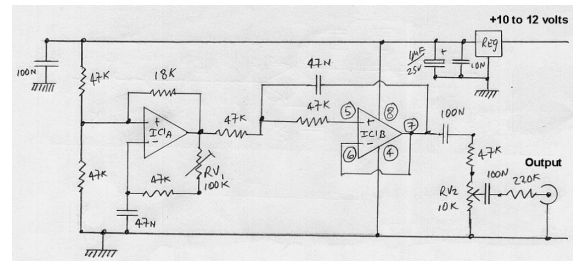
This circuit was designed by CATS member Mike, G8AAI. It enables a tone from a circuit such as Circuit 9 to be keyed into the microphone socket of a transmitter.

It works as follows: On "key up", the 4k7 resistor from the base to the emitter of Tr2 keeps the device turned off. On "key down" Tr2 is turned fully on, enabling Tr1 to conduct and provide output.

Output can be taken from the collector of Tr1 via a suitable non-polar capacitor. Anything in the range of 0.5 to 2.2  $\mu\text{F}$  will do.

Tr1 can be BC107, BC108 OR BC109, etc while Tr2 is any small PNP device such as BC181, BC186, BC187, BC212, 2N3702 or 2N4126.

### Circuit 11: Single Frequency CTCSS Unit



CTSS tone generator circuit

This is a modification of a Radcom circuit by G4NJU. It produces a CTCSS (Continuous Tone Coded Squelch System) tone to provide repeater access for older rigs that do not have CTCSS built in.

Output from this circuit should not be fed directly into a microphone socket as the rig's audio filtering will reject it. Instead it is recommended that you find the point in the circuit just before the deviation level control and feed it in there.

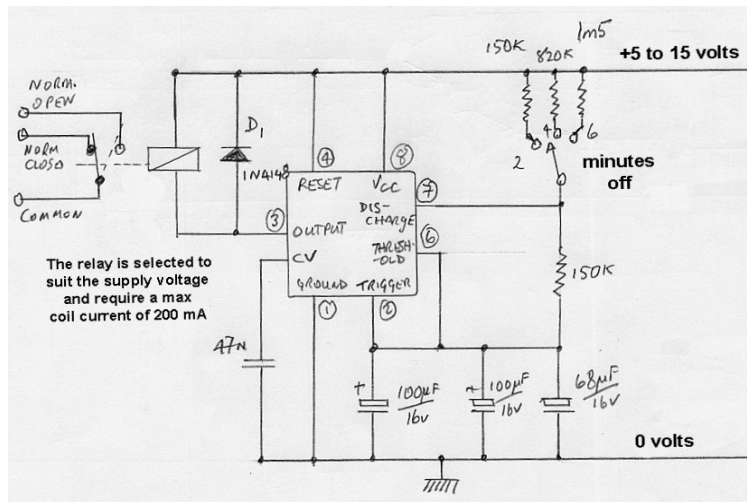
RV1 is used to set the frequency to access the repeater required. For example, the frequency needed to access the local Banstead 70 cm repeater, GB3NS, is 82.5 Hz. For other repeaters see:

[www.ukrepeater.net/index.html](http://www.ukrepeater.net/index.html)

The CTCSS frequency must be set very precisely (generally the tolerance is  $\pm 0.5$  Hz) so a frequency counter is essential for this task. RV2 is used to adjust the output level as required.

## SHAK NOWTZ No 12 – More useful circuit building blocks (continued)

### Circuit 12: Simple Timer



Simple timing circuit

The circuit opposite provides an "On" period of 30 seconds and a selectable "Off" period of 2, 4 or 6 minutes. The IC is a 555 timer.

Have fun!

73 de Mad Frank G3ZMF  
[1] RSGB Handbook, 4<sup>th</sup> Ed, page 9.60. ISBN 0 900612 63 0

## Local Rallies & Events

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](mailto:g0jms@radarc.org)  
[www.mcmichaelrally.org.uk](http://www.mcmichaelrally.org.uk)

31 July 2011

### Colchester Annual Rally - CANCELLED.

30/31 July 2011

### Amsat Colloquium

Holiday Inn Guildford GU2 7XZ  
[www.uk.amsat.org/content/view/724/299/](http://www.uk.amsat.org/content/view/724/299/)

4 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](http://www.frars.org.uk)

28 August 2011

### Milton Keynes 51<sup>st</sup> 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](http://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](mailto:m1ccf@talk.talk.net) or Andy G8JAC  
[www.radioclubs.net/m0vog/](http://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](http://www.nationalhamfest.org.uk)

7-9 October 2011

### RSGB 2011 Convention

Horwood House near Milton Keynes  
Lecture streams  
[www.rsqb.org/rsqbconvention](http://www.rsqb.org/rsqbconvention)

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](http://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](mailto: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](mailto:enquiries@catsradio.org) or  
[www.catsradio.org](http://www.catsradio.org)

# Other Club News & Contact Information

## **BROMLEY & DISTRICT ARS**

**Website:** [www.bdars.org.uk/](http://www.bdars.org.uk/)

**Email:** [info@bdars.co.uk](mailto:info@bdars.co.uk)

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

**19 Jul** - Practical Operating Evening

**16 Aug** - BBQ / Natter Evening

**20 Sep** - 5 MHz Experiment Data Analysis

**18 Oct** - Construction Contest

## **CPREC (CRYSTAL PALACE)**

**Website:** [www.gsl.net/g30ou/](http://www.gsl.net/g30ou/) or <http://www.g30ou.co.uk/>

**Club Net:** Wednesdays 20:00 on 145.525 MHz

**Meetings:** 1<sup>st</sup> 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

**07 Oct** - Military Radio Equipment for the Amateur' by Dennis Noe M0NDJ

## **CRAWLEY ARC**

**Website:** [www.carc.org.uk](http://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](http://www.cvr.rs)

**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:** 1<sup>st</sup> and 3<sup>rd</sup> Thursdays at Progress Hall, Admiral Seymour Road, Eltham, SE9 1SL

**21 Jul** – Social and BBQ

**18 Aug** – Natter nite and members' expo

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

**6 Oct** - High performance antennas

**20 Oct** – Buildathon

## **DORKING & DISTRICT**

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

**Email:** [ddrs.secretary@yahoo.co.uk](mailto: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.

**Jul 26** - South Downs evening.

**Aug 23** - Social evening.

**Sep 27** - The STEPPIR antenna, Rob Barter M0ZAF.

**Oct 25** - Software Defined Radio, Olof Lundberg G0CKV.

## **HORSHAM ARC**

**Website:** [www.harc.org.uk](http://www.harc.org.uk)

**Club Nets:** Saturdays 21:30 on 144.725MHz and

Sundays 10:00 on 3.722 MHz

**Meetings:** 1<sup>st</sup> Thursday at The Guide Hall, Denne Road, Horsham, Sussex

**7 Jul** – Radio Researches

**4 Aug** – Repairing Vintage Radios by David Smith M0SXD

**1 Sep** – Tony Crake - RF Transmitters and Other Experiences

**6 Oct** – Junk Sale

## **MID SUSSEX ARS**

**Website:** [www.msars.org.uk](http://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

**22 Jul** - Chairman's BBQ

**12 Aug** - Fox Hunt/Direction Finding evening

**26 Aug** - Talk on Windmills

**30 Sep** - Talk by Tony G3NPF on home construction

**21 Oct** - AGM

**28 Oct** - Surplus Equipment Sale

## **REIGATE ATS**

**Website:** [www.gsl.net/rats](http://www.gsl.net/rats)

**Email:** [rats@gsl.net](mailto:rats@gsl.net)

**Club Nets:** Thursdays 20:00 on 145.500 MHz and

Sundays 20:00 on 3.740 – 3.760 MHz

**Meetings:** 3<sup>rd</sup> Thursday at RNIB, Redhill College, Philanthropic Road, Redhill for 19:30

## **SRCC**

**Website:** [www.g3src.org.uk](http://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:** 1<sup>st</sup> & 3<sup>rd</sup> Mondays at Trinity School, Shirley Park, Croydon CR9 7AT 19:45 for 20:00

**4 Jul** – BBQ

**15 Aug** – SDR Radio Part 2 with Martin G3OQD

**5 Sep** – Radio Fox Hunting with Terry G4CDY

**3 Oct** – Autumn Surplus Equipment Sale

## **SUTTON & CHEAM RS**

**Website:** [www.scrs.org.uk](http://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:** 3<sup>rd</sup> Thursday at Sutton United Football Club, The Borough Sports Ground, Gander Green Lane, Sutton. 19:30 for 20:00

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

**18 Aug** – 3D TV – Mike Cox

**15 Sep** – Repairing Vintage Radios - Dave Smith M0SXD

**20 Oct** – TBC

## **WIMBLEDON & DISTRICT ARS**

**Website:** [www.gx3wim.org.uk](http://www.gx3wim.org.uk) (unavailable 28.6.11)

**Contact:** Jim Bell M0CON 020 8874 7456

**Club Net:** Mondays 20:45 on 145.500 MHz

**Meetings:** 2<sup>nd</sup> & last Friday of each month at Martin Way Methodist Church, Buckleigh Avenue, Merton

**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

**28 Oct** - AGM

CATS Whispers is published monthly by  
S J Beal G3WZK on behalf of the  
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# NOTES

ALPNTFGLSE-SE ERTE  
 VLSE MTSE-CTSE-WSE-FRTSE  
 PWRTRSE ONDRSE WLD NCBE  
 N WLD XLR CMSP NE WLD STS ME VL  
 BVLM T 6 TUNSE NCBE

(MUNSAISTEN M U NRSE)  
 KLSE-LRSTE-TRSE-TRSE-MKSE-N-MKSE

(FREENSE SE N MKSE)

NM N LCB INSE PTE 2ATE WSR E B K R SE  
 36 MLSE 74 SPRKSE 29 KE NOBOLE 17 SRTRSE  
 35 6LE CLGSE UNUTKE DRKSE PSESHLE  
 651 MTLSE HTLSE N CUTCTRS NMRE

99.845 ZUNE P LSE NCSE ADITSE N SKSE N B SE

~~NSREUSE PVTSE WLD NCBE (3 XRL)~~

~~ANMSE NRSE IN NTRLCR BANSE NTSRCKONE  
 LIPNSE NGIPSE MKSERBSE NCBE N V XLR~~

~~HM CRE N MRSE NCBE~~

~~D-W-MIY MLC XORLX 1/2 MUNDLSE~~

(PI)

(MND N V NE ARSE-N-SPAK N ARE)

(ALSM)

TFRNE N P NSE N P RSE R C B R NSE N P RSE INC  
 PRSE N M RSE OPRE HLD WLD NCBE (TFXLF T X L N CBE)  
 AL-PR P P I T XLY P P I Y N CBE M K RSE WLD R C B R NSE PRSE  
 WLD R C B R NSE N T O G N E N T X S E - C B L E - C I T R S E W L D N C B E  
 AL WLD N C B E T S M E L S E R L S E V R G L S N E A S N W L D N C B E  
 (N O P R S E N L S R E N C B E) N T E G D D M N S E N C U R E R C O R N E  
 (T E N E T F R N E N C B R T S E N C B E I N G)  
 (A L R S E P R S E O N D E 7) N C B E  
 (C O N S E P R S E O N S B E 74 N C B E)  
 (P R T S E P R S E O N R E D E 75 N C B E)  
 (T F N A C M S P S O L E M A D E L U S E T O T E W L D N W L D N C B E)  
 (194 WLD'S N CBE) (TRFXL)