

COULSDON AMATEUR TRANSMITTING SOCIETY

G4FUR



M1FUR

CATS WHISPERS



Affiliated to the RSGB

October 2008

SYCOM - Official CATS Sponsor
Visit www.sycomcomp.co.uk

CATS Committee

Chairman: Steve Conway G7SYO
Secretary: Andy Jackson G8JAC
Treasurer: Derek Hands G1PGS
Members: Steve Beal G3WZK
Stuart Barber G6CJR
Dennis Noe M0NDJ
Frank Emery G3ZMF

CATS Whispers Editor: Andy Jackson G8JAC
email address for contributions: cats@qsl.net

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 22.00hrs.

Society Nets

1 st Saturday of Month	- 1715hrs Crescenta Valley / CATS Net on Echolink Normally via MB7IPL node on 145.2875 MHz.
Sunday mornings	- 1100hrs. Call on S20 (V40) then to 145.2875MHz.
Sunday evenings	- 1700hrs. 3.700 MHz +/- QRM
Wednesday evenings	- 21.00hrs. Call on 70.425 MHz

CATS Website www.qsl.net/cats **Email** : cats@qsl.net

New website host: <http://www.sthost.co.uk/webspace/cats/>

Forthcoming Meetings

Mon 13th October – Sub-sea cables by Steve G3WZK
Mon 10th November – The CATS Quiz hosted by Frank G3ZMF
Mon 8th December - Annual General Meeting



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

Derek Hills G6MFM

As this issue of *CATS Whispers* was being prepared we received the news that CATS member Derek G6MFM died in Mayday hospital during the morning of Sunday 5th October after a short battle with liver cancer.

At this point the funeral arrangements and the wishes of his family are not known but the committee will endeavour to represent the society.



The attentive crowd. G7SYO still fighting with technology.

September meeting report

For our September lecture we were pleased to welcome Denis GØ OLX who is the repeater keeper of our local 70cm repeater, GB3NS. Denis took us through the history of NS and I was surprised to learn how involved some of our own members had been with the project over the years and that the history of the repeater goes as far back as CATS itself, dating from 1974 after being inspired by the pioneers of amateur repeaters GB3PI in Cambridge and the later notorious GB3LO. The first version of the repeater was put together with various amateurs building parts of it with the Mk 1 NS being built up on Denis' front lawn and the antenna mounted on his parent's chimney. An early attempt to reduce mobile flutter by using crossed dipoles was not too successful and was replaced by a J-Beam co-linear assembly. Later, when deterioration was detected in the original Redifon IF strip, that was replaced by a more modern one made by Pye.



Denis expounding a point. Steve G7SYO fighting with the computer.

When, later, the RSGB took over the management of amateur repeaters from the RA, support groups were formed that were joined by many local amateurs with the support group for NS attaining some 30 members.

Denis supplemented his talk with a display of some of the hardware that has been employed on the repeater over the years. We also had the benefit of some slides of the installation (despite the occasionally temperamental PC and projector) that gave us a good idea of the layout and conditions on the site. There can't be too many repeaters where when you do a site visit your mum makes you a cup of tea!

After some years of successful service the decision was taken to upgrade to a Mk 2 version based on Motorola modules, which was found to work well although the strain of running the output at 12 Watts continuously did cause a problem with PA failures. The repeater continued in service until an unexpected problem came to light after the introduction by the motor industry of keyless entry systems. With a lack of technical foresight, these devices had been allocated a frequency within the 70cm band and the cheaply made receivers were extremely susceptible to blocking by nearby relatively powerful signals. The problem manifested itself by irate drivers at a local car dealership being unable to get into their vehicles when the repeater was keyed up, and the situation eventually deteriorated to the point where violence was being threatened, resulting in the decision to close down the repeater in 2004.

Rumours of a relaxation of the regulation of the 70cm band and a visit to the CATS Bazaar in 2006 resulted in a revival of interest. Some testing using the new 7.6MHz uplink/downlink split was undertaken using a temporary NOV and permission from the MoD to use the new frequencies and it was found that there was no recurrence of the old problems. Initially, the frequencies of 430.9125 + 438.5125 were allocated with the issuing authority apparently unaware that these were only 12.5kHz away from GB3LK in Orpington! Finally, channel RU54 on 430.925 was allocated.

The current GB3NS utilises a Motorola MTR2000 capable of running 40W (currently running at 13W) with the receiver sensitivity of -118dBm on its own with a pre-amp taking that down to -128 dBm . The antenna system provides 5.5dBi gain. To make the most of the 13Watts, the antenna is fed by LDF450 coaxial line and the antenna is at 670 feet ASL.

GB3NS is also equipped with an internet connection for Echolink traffic (courtesy of G7ELZ).

For the future, there is planned a 2m input to a transverter for the 23cm repeater GB3BK and Denis is currently building a new repeater for it.

While GB3NS is operating well and is proving very popular with local amateurs (so popular with one very well-known amateur that the repeater is sometimes referred to as GB3FRANK), the future availability of its current site may be limited and there is the possibility of a move a small distance to Banstead.

The repeater is something that most of us use but previously knew little about and our thanks go to Denis for a very interesting presentation. We were also pleased to welcome Tony G1HIG and Gary 2E0 ULA from the Bromley repeater group for the evening.

CATS Future Activity News

In **October** we venture into the telecoms world under the sea with a presentation by Steve G3WZK on sub-sea cables. Sandwiched between HF radio and satellites as the technology for world-wide communications, sea cables are still in everyday use as well as being the first means of international electronic communication. As well as the theory there will be examples of the cables used and a chance to examine the technology.

November is CATS Quiz time and this year our Quizmaster is Mad Frank G3ZMF who has been busy compiling a fiendish set of brain teasers for the past few weeks. Invitations have been made to our neighbouring clubs so we expect a challenging and interesting social evening.

December is the month in which we hold the Annual General Meeting of the society. Please see the separate formal calling notice elsewhere in this issue.

Is there something that YOU would like to see as an activity for our meeting evenings? Could YOU present something that would interest other members? Got an idea for something that we could present? Tell a committee member!

Contesting Reports

VHF NFD 5th & 6th July – Debrief By G0KZT

Preparations for this event took place on the Friday evening as Andy G8JAC, Paul M3JXN and I visited the site so that the mast, rotator and the large 23-element loop beam supplied by John Stockley G8MNY could be put in place. Other members of the North East Surrey Contest Group consisting of members from the Addiscombe club, the Surrey Radio Contact Club and the Wimbledon & DARC were collectively to be called were also busy putting up their masts. Of course, our new pump up mast went up a treat, I'm sure to the envy of those other clubs who were using the "gin-pole" method of hauling their masts up. The maximum height for the restricted section was 40 feet.

The following day I arrived on site just after mid-day. John G8IYS (SRCC) had positioned his caravan and along with Peter G3ZPB (SRCC), the gear consisting of a Yaesu FT736, two amplifiers (the first taking the low driven power from the rig to drive the second) and the computer were assembled. Our second provision, the rotator began to work fine under test but with about 20 minutes to the start, the direction needle failed. The lid came off the control box and as if by magic, John G8MNY (SRCC) produced a circuit diagram. Nothing was found to be wrong with it. Frank G3ZMF produced from thin air a pair of small binoculars and could see the problem, the plug going into the rotator at the top of the mast had pulled out slightly. It was decided to start the contest to get the early contacts and lower the mast again after about an hour.

Activity at the beginning was steady and everything was going fine. Observers were able to give verbal updates to where the aerial was pointing. I forgot to mention that it was windy, very windy. I tried to help Peter G7PWV (SRCC) erect a small gazebo but the wind was just too strong. We resigned to giving it up as a bad idea before the gazebo was completely destroyed! Other stations around the country were reporting heavy rain so I considered us lucky in that respect. As arranged, the aerial was lowered and within 20 minutes, was back up again with the rotator working perfectly again.

I found out that each of the respective tents had made their own arrangements for meals. Sadly, 70cms had none so I decided to pop home via the local fish & chip shop. I had already said to the XYL that I would pop back to help with the two harmonics Melissa & Jessica. On my return I took up the reins again and operated for the rest of the evening along with Frank and Steve G4FYF (SRCC). While there had been good numbers in

attendance, each period of operating lasted about an hour. But, as the numbers thinned out, yours truly along with Frank and Steve carried on.

70cms is a fickle band. It has the potential to give good levels of activity with distances in excess of 400km being readily achieved. However of late, this has not been found to be the case. As we have experienced in the March contest and at last years August effort, contacts can fall on stony ground and VHF NFD was to be no exception. Between 11.30pm and 7.30am we did not manage one single contact. It was not through trying I must add. The voice auto-caller was used throughout and Frank even tried using the Morse key. Anyone turning up in the morning would have thought we had shut the station down and gone to bed. As it was, I stuck at it until about 3.30am where I did resign myself to sleep. Frank however did carry on with Steve who had a nap earlier in his van.

The morning did bring a few additional contacts as fixed stations and indeed some portable stations began to wake up. I had to leave the site early at around 9.30am as I had another commitment. Members of SRCC began to return and it was time to hand the reins back to them. When I left we had mustered around 70 contacts. I do not know what the final total was.

Andy G8JAC was reported sick. He had arrived on the site on the Friday with a stinking cold so it seems it got the best of him. Along with Paul M3JXN and Frank G3ZMF, we also received a visit from Derek G6MFM. I did not recall seeing anyone else from CATS prior to me leaving the site.

As far as the North East Surrey Contest Group, it would seem inevitable that, at some time, clubs would struggle to field their own teams. Observations that I made based upon chats with regular stalwarts of SRCC were, that for whatever reason, there was not the same commitment to the cause. Was this because SRCC had lost their identity for the entry? My only criticism of the event was that I felt that each of the stations run by the respective clubs, were too insular and there was hardly any effort for the members of each club to mix. I have already touched on the messing arrangements (difficult to plan mass feeding when you don't know who's coming) but in general I think there could have been a greater team spirit. Please don't get me wrong, the joint entry was a great idea and I for one will support it again next year if it is planned to go ahead. If there is a debriefing meeting, I will do all I can to attend it. I shall wait with interest to see what happens and to see how well the contest group did.

I would like to express my thanks to our friends at SRCC for inviting CATS to take part in the contest and for the Addiscombe club for providing their resources and in particular the superb generator that more than catered to the demands of all the stations.

Contesting in 2009 (VHF)

Hot off the press, the contesting calendar has been published. This gives us an early opportunity to plan which contests we might like to enter for next year.

Activity Contests

Some of you will know that I have taken part in the activity series of contests. On the first Tuesday of each month there is also the Club Championship for 144 MHz running between 1900 and 2100 GMT. Basically, each member's entry scores towards a grand total at the end of the year. Can you spare 2½ hours for this event? If so, let me know and I'll co-ordinate a club entry. Could be a good excuse to air the club callsigns maybe!

432MHz Affiliated Societies Contest

– 1st February 2009 0900 – 1300 GMT

An opportunity for club members to put a team effort together from our respective homes. You don't have to be members of the RSGB to take place and could be an excuse to dust off our 70cms gear.

144MHz Affiliated Societies Contest

– Saturday 6th December 0900- 1700 GMT

A 2-metre equivalent of the 70cms contest as described above but runs a little longer.

March 144/432MHz – 7th & 8th March

It seems the die-hard members who are brave enough to take on the elements may wish to take part again. Could the die-hard members please step forward! Activity will be from 1400 – 1400 GMT.

144MHz & 432 MHz Low Power Contests

– 1st & 2nd August

Support would be welcome for us to continue to enjoy this series. A chance, perhaps to try and improve our score of this year.

The full list of dates is available at

<http://www.vhfcc.org/rules/09rules/frameindex.html>

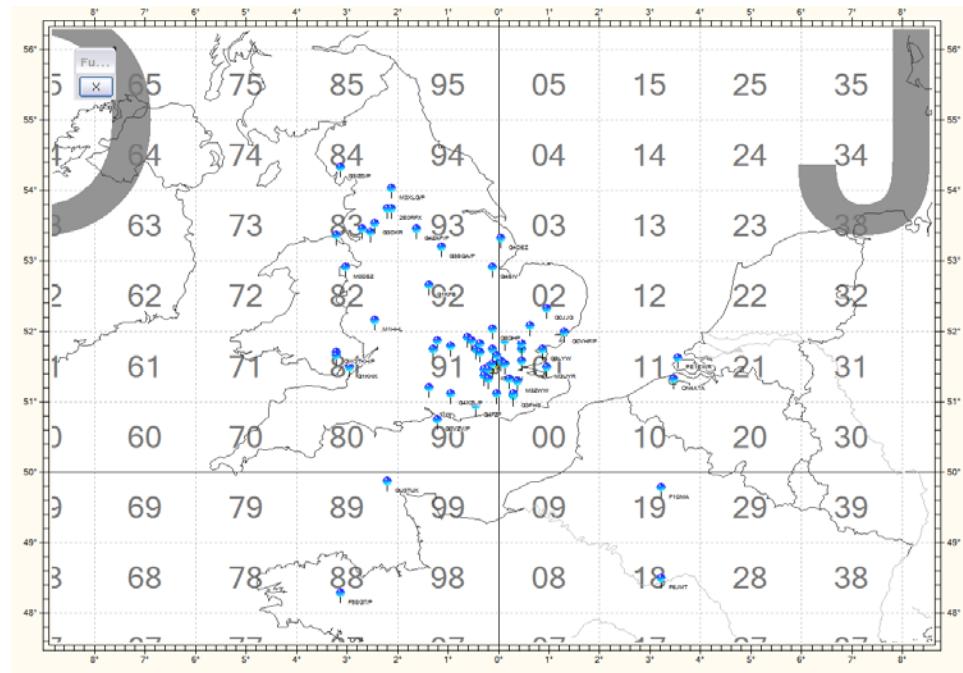
I am being a little presumptuous in thinking you may wish me to continue to act as a non-elected Contest Secretary. In any case, positive replies are required to gauge what interest there is amongst the membership. During the 2008 season, there were several members who expressed a desire for HF contesting. One we may consider is SSB Field Day that is usually takes place on the first weekend of September. Once the HF calendar is published, I'll see what possibilities there are.

The big thing is, it needs you, the members to respond!

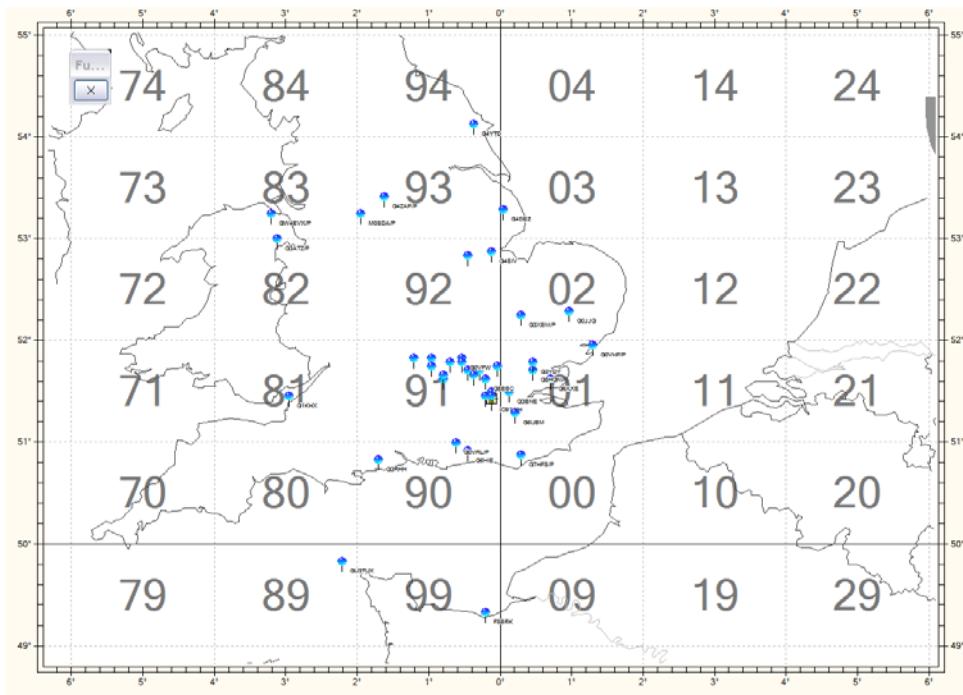
Andy Briers G0 KZT

Low Power Contest – Station Plots – 2007 vs 2008

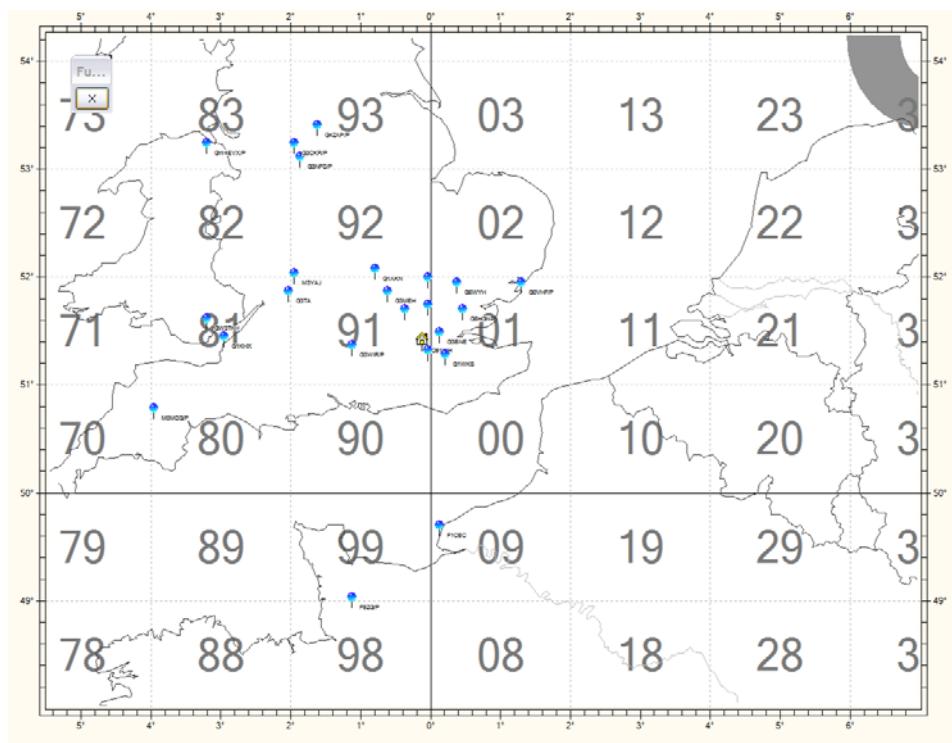
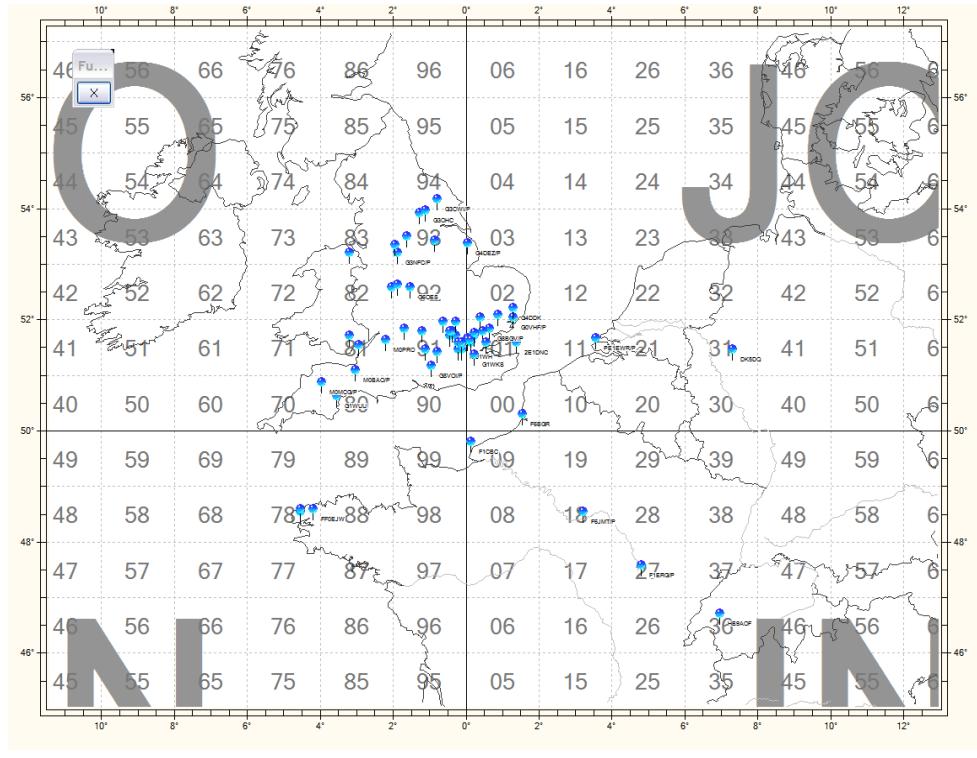
Ham Radio Deluxe allows stations to be plotted onto a map and Super Duper (the contest software) allows data to be transferred to HRD. This presentation should be read in conjunction with my reports published in previous “CATS Whispers” (with the exception of the UHF report for 2008 as the results haven’t been published yet).



Station plots for 144 MHz – August 2008



Station plots for 432 MHz – August 2008



Note: No Scottish stations in either year. No Germans in 2008 and the Welsh still very quiet!

Andy Briers GØ KZT
Contest Secretary

50 years of ICs (or maybe not!)

Fifty years ago last month, on 12 September 1958 to be precise, Jack Kilby, working at Texas Instruments put together in one package a transistor, resistors and capacitors on a slice of Germanium to make what has been claimed to be the world's first Integrated Circuit. What that invention led to was a multi-billion dollar industry.

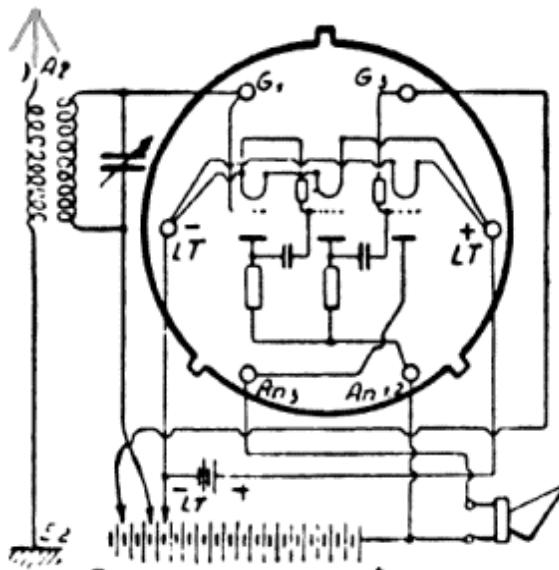


Jack Kilby's 1958 integrated circuit measuring $\frac{1}{16} \times \frac{7}{16}$ inches

However, maybe there should have been a feeling of déjà vu in all the celebrations because the idea certainly wasn't new. As far back as 1926 in Germany, Ludwig Loewe did the same thing with valves, producing the type 3NF *Dreifachrohr* (three element valve) with three valves and other passive components all sealed in one 6-pin valve. With very few external components he produced a complete receiver integrated into a single device.



The Loewe 3NF triple valve of 1926
Note the passive components individually sealed inside



A complete receiver using the NF3 *Dreifachrohr*

The reason for this early attempt at integration was the stranglehold held on the German electronics industry by three large firms, mainly Telefunken who held the licensing rights for valves, and the German taxation system that levied a punitive tax on a per-valve basis. By putting multiple valves into one package, the Loewe company could produce and sell receivers at a price that undercut their rivals.

It's true, there's nothing new under the sun!

Andy G8JAC

EFFICIENCY

Loewe Radio Cone Speaker Type EB. 71

Gives full purity of reproduction and a clarity that is unexcelled. Artistic appearance. Mahogany finish. Silk front.

£39/-

Loewe Radio Local Receiver Type OE. 333

Complete with Loewe Radio Multiple Valve Type 3 NF., and two Coils as shown. This set gives loud-speaker results of excellent volume and purity.

£3 3 0

(including royalty and 2 coils for the lower unit and 3 XX coils extra)

Valve can be replaced, if the filament is burnt out, provided the glass bulb is intact and the internal structure not mechanically damaged, at a cost of 16/- (including royalty), a figure less than the replacement price of an ordinary power valve. The purchase price of the valve is, therefore, an initial expense.

The Loewe Radio Co., Ltd.,
4, FOUNTAYNE ROAD, TOTTENHAM, LONDON, N.15.
Telephone : Tottenham 3911/2.

LOEWE RADIO

The CATS shirt project

All members will be aware of our project to provide every member with a logo'd shirt. This is a follow-up to the sweatshirts that we bought almost five years ago which are still often seen adorning member's torsos. This time we thought that we would move to polo style shirts with short sleeves and a similar logo to the one used on the sweat shirts. This will cater for those who prefer something lighter to wear and be more suitable for what laughably passes for summer these days.

The CATS chief bean counter has authorised the expenditure so the shirts will be FREE on the basis of one per member.

Every member has received a letter requesting size information and what additional wording – callsign, name etc – was required. Unfortunately, while most members responded, there were a few that didn't and to avoid the whole project grinding to a halt, the committee has made an educated guess on sizes and included a few extras in the order.

Delivery is expected at the beginning of November.

Radio Beer

Not some strange new commercial station but it's October again and that means the annual Croydon Beer Festival. Unfortunately, the ever-increasing costs and taxes on beer have had the effect of closing more and more of our traditional pubs, (five pubs a DAY are closing according to CAMRA), often to be replaced by "Pubcos" who these days are more to do with property management than running pubs. As these outfits put operating profit far above quality of the product, we end up with almost identical town centre bars with beer and lager as tasteless as some of the people who inhabit them.

(*Rant mode to OFF* !!!!)

However, all is not lost! For just three days there is a mouth-watering choice of real traditional ales and ciders available where you can find the old tastes and flavours that you had almost forgotten. Several CATS members consider themselves "regulars" at the event so you won't be alone! The preferred day for most people is the Friday session. Details are on the last page of this issue.

The Croydon Ring Road

Never heard of it? Have you ever wondered why Wellesley Road became an underpass or where the six lanes on Pitlake Bridge were supposed to lead to? What was the "Croydon box"?

The whole story is explained on a website devoted entirely to roads (there's a website for absolutely everything these days!). Have a look at:

<http://www.cbrd.co.uk/indepth/croydonringroad/>

The CATS BAZAAR

Preparations for the annual CATS Radio and Electronics Bazaar on Sunday 16th November are well under way. Frank G3ZMF mentioned that the first one was held in 1977 and we think that there's been one every year, so this will be our 31st bazaar. Many rallies and events have come and sadly gone in that time but CATS Continues!

The venue is, as usual, the scout hall at the rear of the council car park in Lion Green Road, Coulsdon. CR5 2NL or TQ296594 for those who rely on SatNavs. Parking is FREE on Sundays.

We will be running a Bring and Buy stall again as that has proved very popular over the past couple of years, and we expect the usual mix of traders, individuals and neighbouring clubs at what has become well known as a friendly meeting place as well as a great opportunity to find those essential bits. Our local RSGB rep will be there with a stall and display and our sponsor Sycom (aka Robin G3FNV) will be there as usual so don't forget your component lists for those winter projects.

Great news: Prue G4RWW has found a supplier of quality sausage rolls so we can maintain our traditional refreshment service.

Most of the tables have now been taken but there are a couple left in the centre aisle, so if you would like to take a table to thin out the shack a bit or get shot of the essential bits you bought last year, contact G8JAC without delay.

A good day at Kempton Park

The autumn rally at Kempton Park caught some people out this year being some six weeks earlier than previous years. However CATS were there as usual running the Bring and Buy stall that has become an essential part of the event. Thankfully, there was no repeat of the blizzard that blanketed the last Kempton rally although there was a fair bit of mist about for the early risers.

A good quantity of radio-related kit was brought in by people attending the show, and there were a number of items from the estate of former CATS member Bob G1PDO that were brought along by James G0 SDB that included a very tidy KW2000A with its PSU and an early Sommerkamp (Yaesu) FT277 that fooled quite a few people due to its similar looks to the FT101 family.

Perhaps the strangest item taken in was a model helicopter, brand new in its box. Yes, we sold it!

Our efforts at flogging it all generated a healthy total of £189 for CATS funds.

Our thanks go to G0 SDB, M3JXN, G3ZMF, M3IGP, G6CJR, G3WZK and G8JAC for turning out and supporting CATS.

Valve manufacture returns to the UK in 2008 !

A company called Blackburn Microtech Solutions has been established on the site of the old Mullard valve manufacturing plant in Blackburn, and has announced that: "Using our 40 years of emission technology know-how, we will bring the first complete new development of the thermionic valve since its initial production back in the 1930's. In September 2008 Blackburn Microtech Solutions launches the TechTube brand of valves."

It appears that the Company will begin by making high specification equivalents of ECC81, ECC82, and ECC83, as E811CC, E812CC, and E813CC, respectively.

As part of its website, the Company is offering access to a 30 minute film showing in great detail the mass production of valves in the old Mullard factory. It makes fascinating viewing.

The film can be accessed on:

http://www.techtubevalves.com/about_us/film_reels.php

From "New Electronics" e-zine:

The AVO Model 8 is retired

After 57 years, the AVO Model 8 multimeter is finally being retired, with the last units leaving Megger's Dover factory in October.

"This is, in some ways, a sad moment," said Nick Hilditch of Megger, "but it has to be said that measurement technology has moved on a long way since the AVO 8 was designed."

Despite rising prices, demand for the AVO Model 8 has continued, albeit at reduced levels. The decision to retire the iconic product has, however, been forced by the lack of availability of the components needed for its production.



The iconic Avo model 8, in this case the final Mk 7 version.

Atom thick transistors

Scientists at the University of Manchester have produced a material that can be used to make the world's thinnest ever transistors. At their very smallest, the new transistors are just one atom thick and ten atoms wide. They're made of a material called Graphene, which is made by joining carbon atoms together forming a flat sheet. The new faster types of Field Effect Transistors that can be made may herald a new breed of computer chips smaller and faster than our current ones based on silicon. However, it is too early to promise Graphene supercomputers, as no existing technology allows the cutting of materials with true nanometre (0.00000001 m) precision. But this is exactly the same challenge that all post-silicon electronics has to face. At least we now have a material that can meet such a challenge. Other applications under development using Graphene include gas sensors, molecular sieves, inert coatings one atom thick and carbon nanotubes.

October TransPONDer net

The October transponder net was held last Saturday (4th October) and turned out rather better than we had hoped. At the Glendale end our usual facilitator Marc KE6ZRP had to be out of town at the vital time but left his link running. This allowed us to speak to the current President of CVRC Leah KE6MMU and a new contact for the link was with Ray KQ6RH/M. We were also joined by Larry AD6IZ.

On the English side, GØ KZT, G4FKK, G3ZMF, G8JAC, G4WYJ and M3JXN were on hand and a good exchange of subjects (particularly the weather in England which at the time was particularly foul) and greetings was made. At least we felt a bit better as it was raining in Glendale at the time as well! The next Transponder net will be on Saturday 1st November.

Membership Matters

Annual General Meeting of the society

In accordance with the rules of the society, notice is hereby given that the Annual General Meeting of the Coulsdon Amateur Transmitting Society will be held on Monday 8th December 2008 at St. Swithun's Church Hall, Grovelands Road, Purley, Surrey CR8 4LA, commencing at 20.15 hours.

Other Club News & Contact Information

BROMLEY & DISTRICT ARS

Website – www.bdars.org.uk

Email bdars-news@talk21.com

3rd Tuesday at Victory Social Club, Kechill Gardens, Hayes, Kent
7-30pm for 8pm

Crystal Palace Radio and Electronics Club

Meets on 1st Friday of every month at 7.30pm at All Saints Church Parish Rooms, Beulah Hill.
Club Net – Wednesdays 2000hrs 145.525 MHz

www.qsl.net/q3oou/

5 December - Origins of the UK Pension System by Victor Johnson G1PKS and Christmas social

CRAWLEY ARC

www.carc.org.uk

Club Nets –

Tuesdays 2000hrs 145.550 MHz

Fridays 1900hrs 1.970 MHz

Every Wednesday at Hut 18 Tilgate Forest Recreational Centre, Tilgate Forest, Crawley from 7-30pm, and Sundays, 10.30 until 13.00.

DORKING & District RS

Club Nets –

Sunday 0815hrs 3.770 MHz

2030hrs 144.775 MHz

Meetings are held at the Friends Meeting House, Butterhill, South Street Dorking at 1930hrs.

Contact: Walter Blanchard G3JKV

Email: wb@g3jkv.co.uk

Web site:- <http://www.ddrs.org.uk>

HORSHAM ARC

Club Nets –

Saturdays 2130hrs 144.725MHz

Sundays 1000hrs 3.722 MHz

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

Latest news – www.harc.org.uk

MID SUSSEX ARS

Club Nets –

Sundays 0800hrs 3.740 MHz

Sundays 1100hrs 145.350 MHz

Wednesdays 2000hrs 145.350 MHz

Daily 1330hrs 21.330 MHz

Every Friday at Cyprus Hall, Cyprus Road, Burgess Hill, West Sussex for 7.45pm

Info – www.msars.org.uk

24 October – Surplus equipment sale

MITCHAM & DISTRICT ARS

(G3HFY) – Last Wednesday of each month 1930hrs at ATC HQ, Commonside West, Mitcham.
Details Mike Knott G0 WCR 020 8764 4716

REIGATE ATS

Club Net –

Thursdays 2000hrs 145.500 MHz Sundays

2000hrs 3.740 – 3.760 MHz

Website www.qsl.net/rats

Email rats@qsl.net

3rd Thursday at RNIB, Redhill College, Philanthropic Road, Redhill for 7-30pm

SRCC

Ray Howells G4FFY 020 8644 7589

Club Nets –

Sunday 0930hrs 29.111 MHz

Friday 2030hrs 144.325 MHz

Thursday 1900hrs 145.500 MHz

Website – www.g3src.org.uk

Meetings: 1st & 3rd Mondays at Trinity School, Shirley Park, Croydon CR9 7AT 7.45pm for 8pm

3rd November – Remote Rig control by Martin G4FKK

SUTTON & CHEAM RS

John Puttock G0 BWV 020 8644 9945

Club Nets –

Monday 20.00hrs 145.500 MHz

Saturday 11.00hrs 145.500 MHz

Website – www.scrs.org.uk

3rd Thursday at Sutton United Football Club, The Borough Sports Ground, Gander Green Lane, Sutton. 7-30pm for 8pm.

16 October - 'Quest for a Quiet Radio Environment' by John Cleeve G3JVC

THAMES VALLEY A.R.T.S.

Trevor Farris M0 CDB 013 7245 767

Club Net Only – G3TVS

Saturdays 1400hrs on 40m

WIMBLEDON & DISTRICT ARS

Website – www.gx3wim.org.uk

Club Net – Mondays 2045hrs 145.500 MHz

2nd & last Friday of each month at

Martin Way Methodist Church, Buckleigh Avenue, Merton Park SW20. 7.30pm for 8pm.

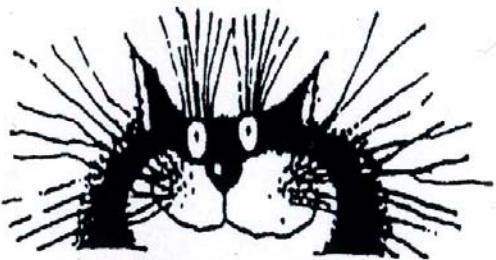
10 October: WW2 Japanese bomber radio

CATS Whispers is published monthly by

A Jackson G8JAC on behalf of the

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**C O U L S D O N
C A M A T E U R
A T R A N S M I T T I N G
S O C I E T Y**



**RADIO
ELECTRONICS
BAZAAR**

And

**At the 1st Coulsdon Scout Group HQ
ACCESS VIA FREE**

**PUBLIC CAR PARK (Rear of)
IN LION GREEN ROAD
COULSDON**

**FLEA MARKET AND
TRADERS STALLS
SALE OF NEW AND
SECOND-HAND
EQUIPMENT**

**SUNDAY
16th
NOVEMBER
2008**

SYCOM

**OFFICIAL CATS SPONSOR
www.sycomcomp.co.uk**

**10.00 AM
TO
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Admission £1



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To book a table or for more information
Please e-mail cats@qsl.net

Croydon & Sutton CAMRA present:
15th Real Ale & Cider
Festival
9th - 11th October 2008

Wallington Hall
Stafford Road
Wallington
SM6 9AQ

Over 60 Real Ales, 10 Ciders and Perries

Thursday 9th

Noon - 4pm **FREE**

4pm - 10.30pm **£2**

Members £1

Friday 10th

Noon - 4pm **FREE**

4pm - 10.30pm **£3**

Members £2

Saturday 11th

11am - 6pm **FREE**

Last evening admission 10pm. Right of admission reserved

See our website for further details



www.croydoncamra.org.uk

