



SURREY RADIO CONTACT CLUB

81st Anniversary Year - Founded in 1935

MAY 2016 — No: 885

CLUB NET 1.905 MHz Sunday 9:30am
 CLUB NET 70.300 MHz Thursday 8:00 pm
 CLUB NET 145.35 MHz +/- 25kHz Friday 8:00 pm

CLUB Internet WEB Site: <http://www.g3src.org.uk>

Hon. Sec. John Kennedy G3MCX
 22 Croham Park Avenue
 SOUTH CROYDON
 Surrey CR2 7HH
 020-8688 3322
 E-Mail: secretary@g3src.org.uk

MONTHLY MEETINGS 1ST AND 3RD MONDAYS 7.30 FOR 7.45pm

Meetings at Trinity School, Shirley Park, Croydon CR9 7AT

**1st MEETING: Monday 9 May. Weather Satellites
 with Gareth G4XAT.**

**2nd MEETING: Monday 23 May. Fix-it, Move-it-On, Informal Chat
 led by John G8MNY**

SRCC Committee 2015/16

| | | |
|--|----------------------|---------------|
| Chairman & Club Meetings | G4FDN Pat McGuinness | 020 8643 0491 |
| Vice-Chairman | M0LEP Rick Hewett | 01689 851472 |
| Secretary & Communications | G3MCX John Kennedy | 020 8688 3322 |
| Web Master (ex Committee) | G4FYF Steve Jones | To be Advised |
| Treasurer & Membership Records | G4FFY Ray Howells | 01732 357474 |
| Contest Co-ordinator, Newsletter Editor | G8IYS John Simkins | 020 8657 0454 |
| Chief Fund-raiser, Liaison, Recycling, Equipment | G4DDY Maurice Fagg | 020 8669 1480 |
| Committee Member | G3WRR Quin Collier | 020 8653 6948 |
| Co-opted Committee Member | G3ZPB Peter Burton | 020 8 |

Dear Members & Friends,

Hello and welcome to the May 2016 issue of the Newsletter, edited by John G8IYS.

Editorial Intro

I know that I have been droning on about 4 metres for the last several months so.....I am going to continue on that theme. Exciting ??

At my home QTH in Sanderstead, my transverter, with hybrid (brick) linear amplifier is at last complete and fully functional. With around 1mW of drive at 28 MHz, it produces about 25 W of FM or SSB, or indeed any other mode, on 70 MHz. Also, my 450 ohm ladder-line Slim Jim is in place and working well with an SWR around 1.2 :1. It is supported on a 5m roach pole

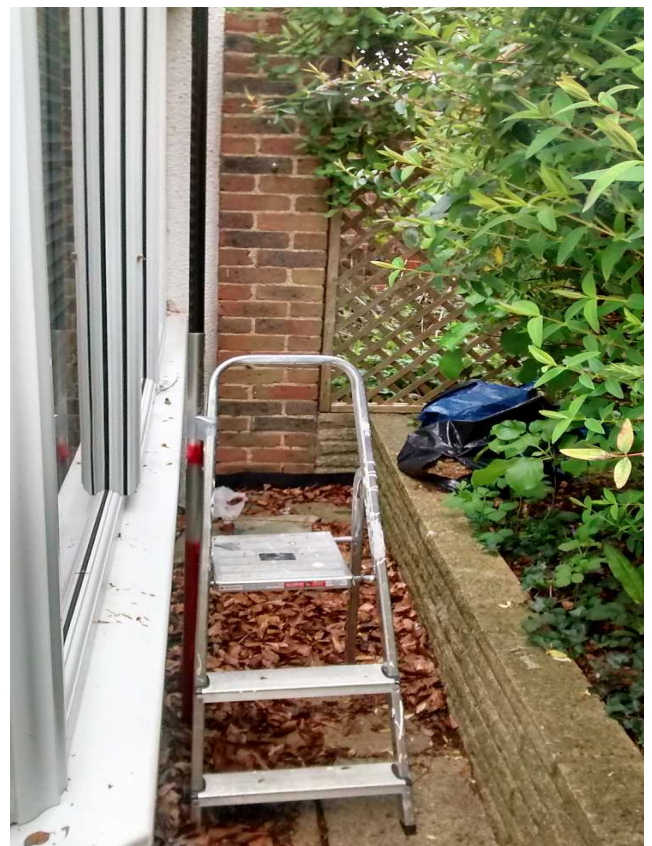
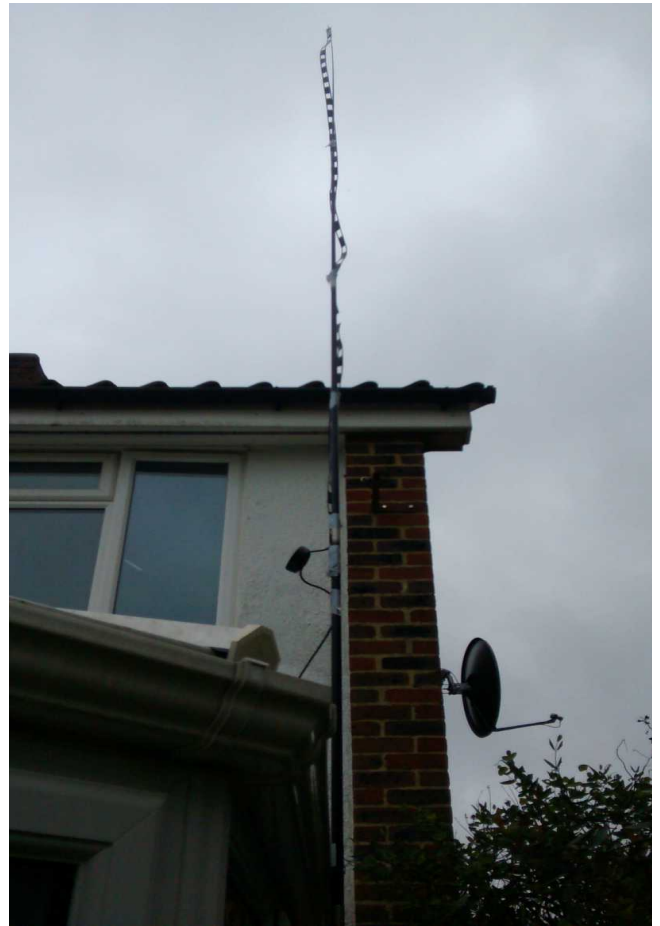
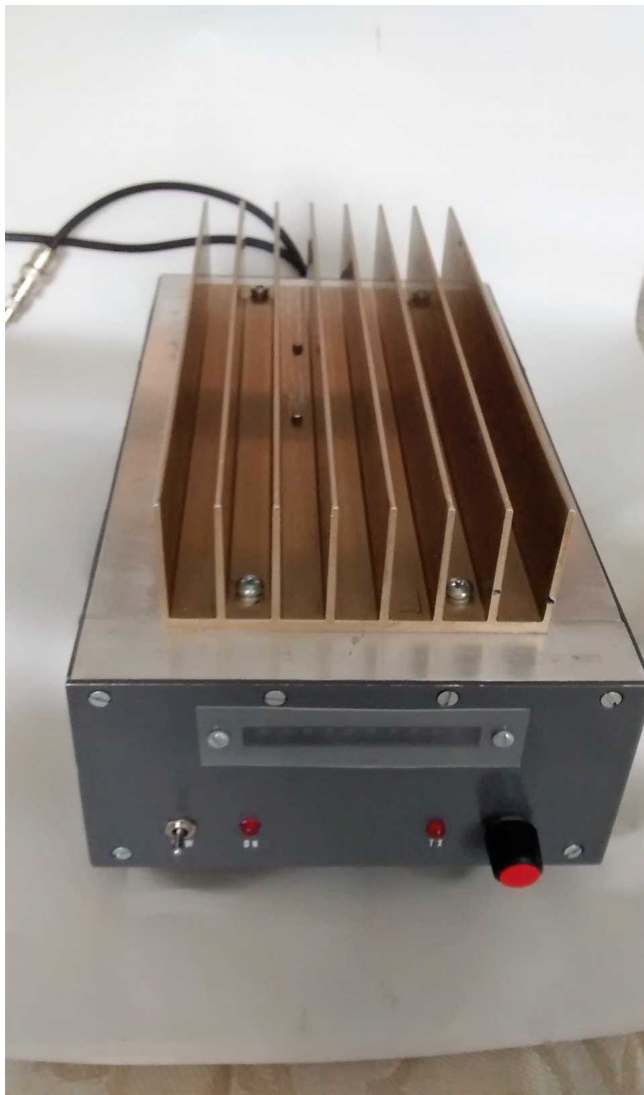
assisted by gaffer tape, nylocks, uPVC guttering on my conservatory and a step ladder.

On the SRCC FM Net (plus), on 70.300 MHz, I have worked Bill 2E0WBO in Croydon, Dave 2E0EBK in South Norwood, Pat G4FDN in Carshalton Beeches and Kim G6JXA in Morden, plus Selim M0XTA in Chigwell, Essex and Adam G7CRQ in Wallington. I have worked Martin G4FKK in Carshalton several times on 70.475 MHz FM. On SSB, around 70.220 MHz, I have worked Tony G4ECS in Caterham (I think) and John G4DGK at Burgh Heath, More distantly, I worked Ken M0KSJ/P on Beachy Head and Geoff G3NPI in Buckingham. I must say that I am finding activity on 4m to be quite lively.

My dual band 6m/4m yagi is progressing too. All 11 elements (5 active on 6m and 6 active on

4m) are all cut to length. I spent a long time calculating how to get 11 elements from 6 times 5m lengths of $\frac{1}{2}$ inch aluminium tubing – with minimum wastage. Taking a respite from keying this input, I have marked up the 5m long 1 inch square section boom to locate the element insulators (Steiff). Drilling follows, but I have modified the mounting method (design originates from G0KSC Google search for lots of info) to use two insulators and two pieces of aluminium angle either side of the boom for mounting the driven element. The feed system is quite novel. The 6m driven element is fed directly with 50 ohm coax, via an “ugly” balun ie 5 to 6 turns of coax laid side by side in a coil of 50 to 60mm diameter, positioned close to the antenna feed point. The 4m driven element is energised by close coupling with that for 6m by using the Open Sleeve technique. There is no direct connection to the 4m driven element so it is continuous through a single insulator.

Here are a few pics:



MAY CLUB MEETINGS

**First Meeting. Monday 9 May.
Weather Satellites with Gareth G4XAT.**

**Second Meeting: Monday 23 May.
Fix-it, Move-it-On and Informal Chat
- led by John G8MNY.**

**LAST MONTH'S CLUB MEETINGS.
Reports by Hon Sec John Kennedy
G3MCX**

**First Meeting. Monday 4th. April 2016
SRCC 76th Annual General Meeting.**

Before beginning the Meeting the Chairman Pat McGuinness, G4FDN ran through the Agenda which he had put on the screen. He then closed the opportunity for nominations -after checking that there weren't any more and declared the Meeting open at 7.49pm. There were 18 members and one visitor present, Peter G0TIQ, who joined the SRCC after the meeting.

Apologies for absence were received from seven Members, Peter Burton G3ZPB, Roger Jenkins G8HDP, Gareth Evans G4XAT, Steve Jones G4FYF, Bert Smith G0IZB, Alvin Challen G6DTW and Michael Somers.

Copies of the Minutes of the previous AGM had been sent to all Members and were taken as read. No questions were asked and their acceptance was proposed John Stockley G8MNY, seconded by Quin Collier G3WRR and agreed.

The Chairman began his report by saying he thinks it is the tenth time he has done this but he has enjoyed being Chairman. Pat used a Power Point Presentation, as he has in the past, but his report was different, spending more time on what the Club's priorities are and less on the content of main Meetings. (*All Meetings are well reported in our Newsletters and put on the Club Website - Hon. Sec's comment*). During the year, two of our Members became Silent Keys: Bryan Aylward G6ODE, who ran his own valve business, and David Foster G3KQR, who was a GP and Coroner. The current membership was fifty-six which includes five Honorary Members, Ted Jones G3EUE, Maurice Fagg G4DDY, Ray Howells G4FFY, Prim Fagg G4CCY and Bert Smith G0IZB. The Membership was a little down on last year. Apart from the two Silent Keys,

others had either moved away or let their membership lapse.

Pat then went on to say that the Club is not all run by the Chairman. Our accounts are audited, Members help with fund raising, and put chairs away at the end of a meeting. They also help to move equipment on our second monthly meetings: Chat and Fix-it Evenings. The Club put on two Special Event Stations during the year. John, G8MNY put GX3SRC on the air with help from other Members at the Sutton Model Engineering Club in May and at Brooklands Museum in June.

The main source of funding is our equipment sales, here and also at Kemptom Park and CATS Bazaar. Helpers at these events are always welcome. Looking at the cost of room hire and the funds produced by subs, it is very clear to see that subs would need to be doubled - just to cover room hire without any other expenses. Thanks to John, G8IYS for the Newsletters, John, G3MCX as Secretary and to Maurice, G4DDY for providing refreshments at meetings, I think he has only missed once in five years. Some people are more inclined to come to formal talks and others to the less formal Chat and Fix-it Evenings. Thanks again to John, G8MNY for bringing all the test equipment along. Pat also thanked those who gave short talks in November.

We are able keep the cost of subs down, probably the lowest in the area. This allows us to keep Members who move away. We try to support a wide range of interest and have re-balanced the Calendar to spread the formal talks out. We have at least two non-radio talks during the year, the annual Club BBQ and one other of general interest. Pat went on to say that we hope new Members find their first visit friendly and welcoming. It is important to maintain a healthy bank balance for emergencies. This accumulates over the years, not quickly.

It is good to have a Committee that get on well together and rarely need to take a vote on things, we have probably had enough talks on Crystal Palace! The Committee meet monthly, normally on a Wednesday, making important detailed decisions on how Club business is managed. For example: Keeping up to date and accurate membership records, (2010) - Handling of money, receipts, donations and record keeping. (2014) - Accurate record of equipment donations. (2015)

Minutes of Committee Meetings are normally taken by the Hon. Sec., then reviewed and approved at the subsequent meeting. Meetings and actions taken by the Committee are recorded and saved.

The Chairman then did a quick review of the year. This was more a record of what took place each month.

2015 - April, 75th. Annual General Meeting and Kempton Park Rally.

May, Homebrew PCBs by Steve Jones, G4FYF and GX3SRC at Sutton Model Engineering Club.

June, Component Tester - Theory, operation and upgrade by Pat McGuinness, G4FDN

July, VHF NFD and 80th. Anniversary Garden Party.

August, The Crystal Palace story by Barrie McKay of the Crystal Palace Museum.

September, Antenna Modelling by Quin Collier, G3WRR.

October, Surplus Equipment Sale and the start of the Thursday 4m Net.

November, The car projects of Gareth Evans G4XAT, from when he was ten years old upwards.

Kempton Park Rally.

December, The SRCC Construction Contest, one table for Gareth G4XAT, one for Steve G4FYF and one for John G8MNY and everyone else.

Second meeting in December was the Christmas get-together. Maurice, G4DDY supplied hot mince pies and Chairman Pat, Christmas Spirit.

2016 - January, The Crystal Palace High Level Railway by Bernard Winchester.

February, Propagation by Mike Parkin G0JMI of Alton Antenna Arrays.

March, Surplus Equipment Sale where our Auctioneer, Gareth G4XAT sold the unwanted to the unwilling. Despite fewer Bidders last month, those at the AGM still want to keep it going.

Plus the Chat and Fix-it Meeting led by John G8MNY with the informal get-together normally held on the second meeting every month.

Pat then went on to - "What is coming up" (subject to AGM outcome).

An emphasis on 'how to' practical talks. - How to receive Weather Satellites - How to use an Oscilloscope - The next project would be a 4m Slim Jim antenna. - An expanded Component Bank - The equipment loan scheme, Pat mentioned some of the items that would be on

loan, initially most likely for a period of one month.

The Chairman finished his report to a round of applause as he handed over to the Treasurer. Our Treasurer Ray Howells, G4FFY had already handed out copies of the end of year accounts which included pie charts of income and expenditure. The Club had a very healthy balance and Ray said that subs would remain unchanged. Ray did mention a couple of other points, as the Club's financial year ends the income from the March sale would be included in next year's account. The other being that the SRCC funded its 80th. Anniversary Garden Party during the year. There was only one question, "Who was G2HBA?" - He was Charles Spencer, the last of our pre WW2 Members who became a Silent Key recently. He had not been to a meeting for many years but a considerable number of radio items from his estate had been donated to the Club by his family. Peter Woolhouse, G7PWV said he was pleased to audit the accounts in their present form. Acceptance of the Treasurer's Report was proposed by John Kennedy G3MCX, seconded by Maurice Fagg G4DDY and agreed. A vote of thanks to our Treasurer was proposed by Kim Brown G6JXA, seconded by Peter Woolhouse G7PWV.

Scrutineers were not required for the election as the number of Nominees did not exceed the number of Posts to be filled. John Kennedy G3MCX was the only nomination for Hon. Sec. proposed by Prue Glaisher. G4RWW, seconded by John Stockley G8MNY and elected unopposed.

Six Members, formally proposed before the meeting and having agreed to stand were elected.

Those six were Pat McGuinness G4FDN, Ray Howells G4FFY, Maurice Fagg G4DDY, John Simkins G8IYS, Rick Hewett M0LEP and Quin Collier G3WRR.

From the Committee for the position of Treasurer, Ray Howells G4FFY was proposed by John Simkins G8IYS, seconded by Peter Woolhouse G7PWV and elected. For Chairman, Pat McGuinness G4FDN was proposed by Peter Woolhouse G7PWV, seconded by Bill Jones 2E0WBO and elected. The nominee for Vice Chairman was Rick Hewett M0LEP, proposed by John Kennedy G3MCX, seconded by Maurice

Fagg G4DDY and elected. Other positions would be decided at the first Committee Meeting after the AGM.

Peter Woolhouse G7PWV and Andrew Maish G4ADM were appointed Independent Examiners for the year 2016/2017. The previous year's Examiners, Peter Woolhouse G7PWV, Peter Burton G3ZPB and Quin Collier G3WRR received a vote of thanks especially to Peter G7PWV who brings years of experience and professional knowledge.

The Chairman then made an announcement regarding the Awards. The winners of the Johnny Hayden Rose, SRCC Club Cup and the Sutton Trophy (CW Cup) had not been decided. It could not be discussed at the last Committee Meeting as two Members of the Committee were absent.

Any Other Business was opened by the Chairman asking if any of the Committee Members or the Secretary had any comments to make. Pat then continued by asking for a show of hands from Members present to indicate if they were interesting in making a Slim Jim for the Club Project. Fourteen Members responded, they were : Rick M0LEP, Pat G4FDN, Dave 2E0EBK, Kim G6JXA, Steve G0STE, Quin G3WRR, Alan 2E0DIS, Maurice G4DDY, Ray G4FFY, Peter G7PWV, Andrew G4ADM, Peter G0TIQ, Colin G4LZE and Bill 2E0WBO. Prue G4RWW, who is also a member of CATS asked if they organised a coach trip, could our members be made aware of it. Or maybe even arrange a joint coach outing with CATS.

The Chairman then thanked those present for coming to the AGM this evening and closed the Meeting at 9.32pm.



**Chairman Pat G4FDN in full cry.
Hon Sec John G3MCX taking careful notes**



Some of the members attending

Second Meeting, Monday 18 April 2016 Chat and Fix-it led by John G8MNY

John G8MNY is always kept very busy at these meetings and this evening was no exception, being kept busy right up until 10 o'clock. The Committee thought to make his job a little easier by providing a flat trolley to cart vast loads of test equipment around, sometimes to Room 7. John seems to manage with trolleys that he finds around the school and with a little help from Members. He is always reluctant to accept anything.

Eventually, John agreed to have a new Club sweatshirt which the Chairman presented this evening as a small token of appreciation for all the hard work he put in for the Club.



Some of John G8MNY's (moderately portable) test gear



Presentation of a new SRCC sweatshirt to John G8MNY by Chairman Pat G4FDN.

Chairman's Blog by Pat G4FDN



AGM: First my thanks to all members who attended and participated. Secondly my thanks for the honour of being elected to the position of chairman for another year.

Peter G3ZPB has kindly agreed to be co-opted to the committee. Peter is a former club chairman and committee member and brings a wealth and breadth of professional and voluntary experience with him.

My thanks to **Steve G4FYF** who has agreed to remain as the club's Webmaster, despite his move to Bexhill.

Welcome back to **Angel M0HOV** of Bromley who has re-joined the club.

A very warm welcome to new club member **Peter G0TIQ** of South Croydon. Peter attended the AGM and met several members following closure of main business.

Equipment Loan Service: the club will be launching its equipment loan service for members shortly and full details will be available at the next meeting. Members will be able to borrow various items of test equipment, transceivers, a HF linear, and other items in the club's possession. This will be administered by the club's Equipment Officer, Maurice G4DDY.

Kempton Radio Fair: Led by Maurice G4DDY and assisted by myself and John G8IYS and Quin G3WRR, the club had its usual stand. From donations and commission sales we achieved a very useful addition to club funds. Several club members stopped by.



The SRCC selling team (L to R): Maurice G4DDY, Pat G4FDN, John G8IYS, & Quin G3WRR plus Mike G3VYI



Kim G6JXA and Alvin G6DTW



Maurice G4DDY and Phil G1LKJ

:



Steve G0STE

Yaeger FC-1/FC-2 (Yes Yaeger not Yaesu!) Has anyone else come across this combined frequency counter and QRP power meter? It is available from various sources on eBay for around £30-£35.



As can be seen in the picture it displays signal level in dBm. It covers from 10Hz to 2.6GHz, has a sensitivity of less than 15mV at 1GHz. It also comes with re-chargeable batteries and charger.

For more accurate power measurements up to 11GHz the **Eisch-Kafka-Electronic DET-01** looks like a nice piece of kit. It is available from Germany at Euro 159.00.



More details (in German) available here:

<http://www.eisch-electronic.com/entwicklung/powerdetector.html>

They have a catalogue in English which includes a lot of hard to find components. It can be downloaded here: http://www.eisch-electronic.com/katalog/download/Catalogue_english/Catalogue-2014-full.pdf

While on the subject of interesting things from Germany, **DK4DDS** runs a bespoke short run PCB service. The cost for single/double sided is 16 cents per square centimetre. More details here: http://www.imdes.de/home_uk/text_uk_pcb_pooling/imdes_pcb_pooling_uk.htm

Club Construction Project 4m Slim Jim: For those participating (John G3MCX has your names!) please come to the second meeting in May to collect your lengths of flexible 450 Ohm ladder line. This too is coming from Germany.

Sign-off: Gareth G4XAT is next up at our first meeting in May. Some of you will have already seen the very impressive pictures Gareth has obtained from Russian weather satellites that have been received via his home brewed Quadrafilar antenna. I would encourage all members who can to make plans attend as this will be a very interesting presentation.

BroadBand HamNet (BBHN) Meeting 22nd May 2016. 1000 to 1630 BST.

Info provided by Crawley Amateur Radio Club
<http://www.carc.org.uk/>

This is a get together of BBHN Mesh Operators and those interested in this system of digital communications on the amateur microwave bands

Objectives for the day are to introduce the Mesh Network concept to newcomers and to allow existing operators to exchange information, opinions and even system components!

The morning will feature introductory presentations and a brief demonstration of a small BBHN system running on 2.4 GHz.

Easily available and low-cost digital microwave transceivers will be displayed and explained which all use Open Source, FREE software/firmware!

The program of the meeting is flexible and, after lunch, will include open discussions on the potential for forming a UK-wide organisation to promote BBHN and microwave Mesh networking.

The usual 'legendary' hospitality of CARC will be available including the famous bacon butties!

Please come out of the Cloud and Mesh together in a friendly environment.

Please contact Ted, G4ELM on BBHN.Event.2016@gmail.com to receive a copy of the agenda and to indicate likely attendance numbers-as a courtesy to the organisers and the venue hosts.

Ed comment: I know that Pat G4FDN and Victor G3YIS have active stations. I have a couple of 2.4 MHz modems which I did not get around to doing something with and there are several others. Perhaps we can organise a group attendance and reinvigorate our participation in this area of activity. Contact g8iys@btinternet.com , if interested.

From Your East Sussex Corresspondant, Steve G4FYF.

Tuesday 29th March saw our whole existence in the back of two and a half removal lorries heading down the A21 to our new abode in Bexhill on Sea. It was a long day. Immediate job was to board the loft so what came from the loft would go back! Thus far, very quiet, apart from the odd squawk of gulls in the distance. People are really friendly and talk to you and keen to help, from the local 'One-Stop Shop', well, when I say 'local' it's 5 minutes drive away, to staff in the big Sainsburys, B&Q, and the local tip about 15 minutes away. It's all very laid-back, no pushing and shoving and not many yellow lines.

The seafront is about 10 minutes away and has been enjoyed by both granddaughter.....



.....and our dogs



We've also 'inherited' a pair of herring gulls, Gus and Gladis. These were named and fed by the previous owner.



If they don't get their food on time they peck on the patio door where they show their appreciation by bringing us presents of twigs or feathers. Surprisingly, perhaps thankfully, they don't pooh in the garden or on the cars; don't pooh in your own back yard? They are currently nest building against next doors chimney stack.

On the radio front, an opportunity not to be missed. On the Friday, neighbour was having some cosmetic treatment carried out to a tree at the bottom of their garden. A word with him and he was amenable to my request to use a branch as an anchor point for a long wire. So, whilst the arborealist was up there, a frantic search in the shed for the box containing my cable, quick attachment to insulator and rope and it was up.



It's about 20 meters up and runs about 30 meters back to the house running north/south. Rig is currently in an upstairs bedroom, no proper ground apart from a connection to the radiator pipe. Have had a contact with John G8MNY on 40 m and some decent contacts on 20. Have a G5RV knocked up ready to go as another interim measure.

Website: Delay in getting broadband connected meant the website not being updated for a while. That is now remedied and normal service resumes.

Component bank: Stocks of components I held have been passed onto Pat G4FDN. Please contact Pat or other committee members for any queries regarding availability.

Having been somewhat apprehensive about the move, now we've found our way around, found a good fish and chippy, Indian and Chinese, and pub, all-in-all, it's all rather pleasant!

73 Steve.

SRCC Meetings for 2016 (so far)

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|--------|---|
| 9 May | Weather Satellites by Gareth G4XAT |
| 23 May | Fix-it, Move-it-On, Informal Chat plus Club Construction Project: Ladder-Line Slim-Jim. |
| 6 Jun | How to use an Oscilloscope by John G8MNY |
| 20 Jun | Fix-it, Move-it-On, Informal Chat |
| 11 Jul | BBQ @ QTH Prim & Maurice |
| 18 Jul | Fix-it, Move-it-On, Informal Chat |
| Aug | TBA |
| Aug | TBA Fix-it, Move-it-On, Informal Chat |
| 5 Sep | Test Equipment with Bob G3OOU |
| 19 Sep | Fix-it, Move-it-On, Informal Chat |

Further ideas volunteers and contacts will be very welcome Repeat: very, very welcome.

OTHER CLUBS' MEETINGS

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| | Wimbledon & District ARS No information published. Contact Jim Noon M6AVV - 020 8337 4940. email jamesanoon@hotmail.co.uk Web site:- http://www.gx3wim.org.uk Meetings @ 8pm on 2nd & last Friday of each month at Martin Way Methodist Church, Merton Park, SW19 9JZ. |
| 12 May | Sutton & Cheam RS AGM. Meeting at Vice Presidents Lounge, Sutton United Football Club, Gander Green Lane, Sutton. Normally 8pm. Sec: John G0BWV 020-8644 9945 |
| 17 May | Bromley & District ARS Skills Night. Normal Meetings 7.30 for 8.00 pm @ Victory Social Club, Kechill Gardens, Hayes, Bromley, Kent. Contact: Andy Brooker G4WGZ 01689 878089 |
| 6 May | Crystal Palace R & EC Amateur Radio in WW1 with Dr Elizabeth Brunton. All Saints Church Parish Rooms, Beulah Hill from 7:30pm. Bob G3OOU 01737 552170 (Meet normally monthly on 1st Friday) http://www.g3oou.co.uk/ |
| 24 May | Dorking & DARS The 2016 Sporadic E season with Jim Bacon G3YLA. Contact: David Browning M6DJB djb.abraxas@btinternet.com Website: www.ddrs.org.uk . Meetings held 7.45 pm at The Friends Meeting House, Butterhill, Dorking, RH4 2LE. Web site:- www.ddrs.org.uk |

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| 14 May | Coulsdon ATS Construction evening – Part 2 Meetings held 8 pm on 2 nd Monday each month @ St. Swithun's Church Hall, Grovelands Rd, Purley. Steve Beal G3WZK. Secretary@catsradio.org. Tel: 01883 620730. |
| 5 May | Horsham ARC Navassa Island and Amsterdam Island Dxpediton with Bryn G3SWC. Meetings held at 8 pm on 1 st Thursday each month at: Guide Hall, 20 Denne Road, Horsham, West Sussex, RH12 1JF. Contact: www.harc.org.uk . Hon Sec Alister Watt email: g3zbu@hotmail.com |
| 18 May | Crawley ARC Digital Mobile Radio with Denis G0OLE |
| 22 May | BroadBand HamNet (BBHN) Meeting 1000 to 1630 BST. Meetings at Hut 18, Tilgate Recreational Centre, Tilgate Forest, Crawley, West Sussex Note that this is NOT a mailing address. Any letter sent there will not be seen by the club us for several weeks, if at all. To get in touch with the club please use email . Contact M0TZZ secretary@carc.org.uk |

Sign Off. That brings us to the end of another one. Thanks to all contributors, but I would like more. Just tell me what you have been up to, contacts, things built, hopes (and fears). I hope that you all noticed that I managed to get the page numbering right this time.

Vy 73. John G8IYS Editor.