



# SURREY RADIO CONTACT CLUB

**JANUARY 2005 — No: 748**

CLUB NET 1.905 MHz Sunday 9:30am  
 CLUB NET 144.325 MHz Friday 8:30pm  
 CLUB NET 145.500 MHz and Down Thursday 7.00pm

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

Hon. Sec. Ray Howells G4FFY  
 9 Aultone Way  
 SUTTON  
 Surrey SM1 3LD  
 (020) 8644 7589  
 E-Mail: [secretary@g3src.org.uk](mailto:secretary@g3src.org.uk)

**MONTHLY MEETINGS 1<sup>ST</sup> AND 3<sup>RD</sup> MONDAYS 7.45 FOR 8pm**

Normally AT THE T.S. TERRA NOVA, 34 THE WALDRONS, SOUTH CROYDON, CR0 4AZ

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**"A" MEETING 10<sup>th</sup> Jan 2005 "The Flying Flea"– Dr David Foster G3KQR**  
**"B" MEETING 24<sup>th</sup> Jan 2005 FIX-IT, ADVICE, CHIN-WAG, CLUB STATION + "MOVE-IT-ON"**

Chairman	G4XAT Gareth Evans	020-8462 2837
Vice-Chairman	G4WAY Roger Holyoake	020-8689 7089
Treasurer, Liaison & Equipment	G4DDY Maurice Fagg	020-8669 1480
Secretary, Membership & Communications	G4FFY Ray Howells	020-8644 7589
VHF Co-ordinator (Co-Opted)	G8IYS John Simkins	020-8657 0454
Publicity & HF Co-ordinator	M1MRS Robert Shepperley	020-8687 0811
Club Meetings	G4FDN Pat McGuinness	020-8643 0491
Members	G3RJW Graham Marshall	020-8669 8722
	G8TB Bernie Wynn	020-8660 7517

## Dear Members & Friends

Hello and welcome to the January 2005 Newsletter which I have started to write on Tuesday evening after a very pleasant Christmas and now looking forward to the New Year. I take this opportunity on behalf of all the committee to wish all members, other clubs, friends and all our readers a happy and peaceful New Year.

For the "A" meeting on Monday 10<sup>th</sup> January we have at short notice secured Dr David Foster G3KQR for a talk on "The Flying Flea". Details are given below but we would appreciate a great turnout – thank you. The "B" meeting is being held as usual on 24<sup>th</sup> January.

### NEXT "A" MEETING: Monday 10<sup>th</sup> Jan 2005 "The Flying Flea" - David Foster G3KQR

For the first meeting of 2005 we welcome back Dr David Foster G3KQR who has given us entertaining talks in the past presented with his unique style. On Monday January 10<sup>th</sup> the talk he will be giving is entitled "The Flying Flea".

Maurice G4DDY has supplied me with the following synopsis cut out of a recent letter from David: "In medieval times the plague germ was carried on the louse that lived in rats. Henri Mignet had made thirteen tries before he made HM14 he called it the Flying Louse. The English called it the Flying Flea. Everywhere ten-thumbed dreamers went down to the nearest wood yard and started to make it, as the book said it was as easy to fly it as learning to ride a bike. It had the germs of death in it. That's what the lecture is all about"

Also try this Web Site: <http://www.flyingflea.org/>

### NEXT "B" MEETING: Monday 24<sup>th</sup> Jan 2005 FIX-IT, Advice, Chin-Wag & "MOVE-IT-ON"

The "B" meeting on Monday 24<sup>th</sup> January will be the regular "Fix-It" and advice evening with the extra twist. If you have a radio item or anything else that you just wish to clear out then bring it along - you never know it may be just what another member is looking for!

The Fix-It section has proved very interesting and successful so please bring along that item that has been giving you grief - the collective heads at the meeting usually come up with something.

### LAST "A" MEETING: Monday 6<sup>th</sup> Dec 2004 SUSY Radio with John Stockley G8MNY



On Monday 6<sup>th</sup> Dec last we were treated to another excellent talk from John G8MNY, this time on Susy Radio, a Restricted Service Licence (RSL) broadcasting station for the Reigate/Redhill area (a month at a time). This is an activity that John has been involved with, on the technical side, for the last ten years starting with Jubilee FM in 1994.

John talk took us through the developments of Susy radio backed up with video stills, overhead projector slides, and sound bites. We learnt of the challenges presented for the aerial design for Medium Wave broadcasting and the efficiencies involved. The licence allows 1W ERP from a 1/7<sup>th</sup> monopole aerial on 531kHz meaning an input power of approx 150-200W. A 28-day FM licence is currently £5000 whilst an AM one is £2500.

John showed us broadcasting studio schematics and described the donated mixing desk principles, including the “virtual earth” techniques. Technical details of audio quality, frequency ranges for AM & FM, Signal to Noise ratios, Harmonic distortion, FM Emphasis, Limiting, Stereo Multiplexing and RDS were also covered and John supplied a handout proving more details.



From Jubilee FM in 1994, using a studio in Hall & Co, it was Trust FM in 1995 from a shop in the Belfry Centre. It was then Susy Radio, using the shop again in the Belfry Centre. They did 4-years there before moving to the East Surrey College for one broadcast. In

2001/2/3 Susy Radio broadcasted on AM using the Oakley Centre in 2003.

John described the AM Transmitter, the aerial, later use of computers, the presenters and the principle of a free playlist “Play with a Passion”.

The evening was concluded with some audio bites demonstrating some of the broadcasts including an interview with Henry Cooper.



Thank you John for an entertaining and informative evening, which was enjoyed by all those present – “another insight into this ether based hobby”. There have been some 24 RSL operations, 15 being for SUSY, with some £50,000 raised for charity over the years.

## CHAIRMAN THOUGHT of the MONTH - January 2005



Welcome to 2005, I hope you have a happy and prosperous new year.

Christmas has of course been and gone, memorable only in your Chairman’s house because we all had ‘flu, separated in our misery by a day or two, with me being the last in line. As I write this (28<sup>th</sup> Dec) I’m up and about but still have a very sore throat that hurts when I cough but at least the joint pain and headaches have departed! I do hope you have all avoided this years dose of the ‘lurgy’- I’d forgotten how debilitating it is, not having suffered from ‘flu for at least 10 years. On a brighter note, at least it made me rest, so perhaps my body was trying to tell me something after all.....

What I did notice during the enforced inactivity was just how deplorably grim most of the television was over the holiday period. Even with a free view box, there were times when there really wasn’t anything worth watching. I did try reading a book, one of my favoured holiday pursuits, but even that felt too much some days....ahhhh! It’s strange how different people like different things, my wife Jayne recommended me a book, by P D James,

and although it got there in the end, I found it incredibly verbose and at times tedious to read, almost as if the author had a ‘words total’ target to hit. I’ll stick to Hammond Innes and Alister MacLean in future, except I’ve read them all....

With the World Wide Web all around us it seemed about time that we had our own section on the schools website, all about our car racing activities. One of the team members was commissioned and, even better, we recently secured sponsorship for our own domain name, so have a look at [www.trinityschoolracing.co.uk](http://www.trinityschoolracing.co.uk) and let me know what you think. The gallery page takes a while to load unless you are on some sort of broadband, and if it’s on there by the time you browse the site, the streaming video will take even longer – each file is around the 3 MB mark. So far it’s receiving over 140 hits a day, which can’t all be from team members.....

In preparation for the new years race season we have had our motor ‘legally vented’ (thanks to Maurice, G4DDY) who undertook the work without disturbing the ‘sealed at factory’ stickers. By using a small axial fan we can really force-cool our motor which means we will have lower running resistance and should be able to keep our motor alive even if we need to overwork it at times – like with the finish line in sight! To save power the motor temperature is digitally measured using a Dallas serial temperature sensor and then a PIC microcontroller outputs a suitable PWM to a powerFET at ever increasing PWM as the temperature rises. This means that only at extremes of temperature does the cooling motor get full power. The colder the weather on the day of the race the better it will all work. We are also contemplating water spray injection, as the evaporative cooling this could offer would make even more difference. The vehicle aerodynamics are being investigated by an ex-pupil of mine, now working in a large motor-sport company based near Oxford and a new roll bar and rear bulkhead system is being designed and fitted so that our best (but unfortunately growing!!) drivers can still get in the hot seat. We have some new driving talent coming up and they will be getting their first drive at the season opener on April 21<sup>st</sup>, 2 pm onwards. This is the traditional start to the season, run as a series of 10 lap races around a 400 metre running track. We hope to have improved our ‘on-car’ camera this year on both cars by using 23 and 13 cms but at the moment we only have one portable 12 volt recorder. Should get interesting if they both race at the same time!

I’ve even been thinking of getting on with some radio projects – I suddenly realised that it was nearly a year since I had actually built anything directly radio orientated, so I must have been far too busy. At least this year, by some extraordinary good luck, I can not only take part in the London to Brighton bike ride with son Joshua and compete in all the Greenpower heats I wish to but I will also be around for the field day weekend!! Perhaps I should finish off Linear2K, a substantial product based around a surplus Russian military thermionic device that had its’ input and output circuitry resonated on 50 MHz over the millennium holiday, one foot in 1999, the other in 2000. Definitely overdue that one, but ideal for using up a nice LabGear 300 case I have been keeping for just such an occasion. Most of the heavy work is done, but there remains a fairly complex control and bias board to wire in, plus RF switching and various meters to be fitted. I would really like to use the meter that shows anode current, 0-1 Amp, (genuine, and almost necessary!) if possible.....



Why this colour – see next page . . .

And now, 101 uses for bananas, yet another one....I have been told that if you keep them away from other fruit in a cool place, they will keep fresh for up to a couple of weeks. My attempts at replicating this advice have been marred by the cool place getting far too cool recently (1.5 C, outside shed) so they have responded by going black skinned as they do in a fridge, although perfectly edible the children take one look and walk away. Suggestions from you the readers are always welcome, so if you have some favourite uses for bananas please send them in. I have heard of at least one that involves cream and liqueur, so let's be having the recipes!!

One of our more elderly but astute members recently pointed out that this year the SRCC will be celebrating it's 70th (Septuagennial) year. Perhaps members far and wide would like to consider if and how we might mark this occasion. Your thoughts please to either myself by email or other means, or to our Secretary, Ray.

That's about it for this month, see you at our first "A" meeting when we are pleased to welcome Dr David Foster who will no doubt fascinate us with another one of his talks, this one all about the Flying Flea!

Gareth G4XAT

## THE CALENDAR SECTION

### SRCC and Local Club Meeting Dates:

7 <sup>th</sup> Jan	Crystal Palace – All Sorts of Test Meters followed by a practical session @ All Saints Church Parish Rooms, Beulah Hill. 7:30 for 8pm. Bob G3OOU 01737 552170 (Meetings 1 <sup>st</sup> and 3 <sup>rd</sup> Fridays) <a href="http://members.aol.com/rfcburns">http://members.aol.com/rfcburns</a>
10 <sup>th</sup> Jan	<b>“The Flying Flea” with Dr David Foster G3KQR</b>
10 <sup>th</sup> Jan	CATS – TBA - Meetings held @ St. Swithun's Church Hall, Grovelands Rd, Purley 8pm 2 <sup>nd</sup> Monday's. Contact: Dave G8VXB on 020-8546 5445 <a href="mailto:dyoung@photo-scan.com">dyoung@photo-scan.com</a>
11 <sup>th</sup> Jan	Dorking & District Radio Society – New Year Social with Stephen G1LJR. Meetings 2 <sup>nd</sup> & 4 <sup>th</sup> Tuesdays @ Friends Meeting House, Butterhill South Street, Dorking – opp. Spotted Dog. Details: John G3AEZ on 01306 631 236
14 <sup>th</sup> Jan	W&DARS – “Matching” Wire Antennae with George G3DWW @ St. Andrew's Church Hall, Herbert Road, Wimbledon – 7.30 for 8pm 2 <sup>nd</sup> & last Friday's Details: Jim M0CON on 020-8874 7456 <a href="http://www.wadars.thersgb.net">http://www.wadars.thersgb.net</a>
18 <sup>th</sup> Jan	Bromley & District – AGM. Meetings on 3 <sup>rd</sup> Tuesday's @ Victory Social Club, Kechill Gardens, Hayes – 7.30 for 8. Alan G0TLK 020-8777 0420 <a href="http://www.bdars.org.uk">www.bdars.org.uk</a>
17 <sup>th</sup> Jan	<b>VHF NFD Inquest/Planning @ G8IYS QTH</b>
20 <sup>th</sup> Jan	Sutton & Cheam RS – EMC with Nick Hooper G8NLY Meetings @ Vice Presidents Lounge, Sutton United Football Club, Gander Green Lane, Sutton – 7.30 for 8pm. Sec: John G0BWV 020-8644 9945 <a href="http://www.scrs.org.uk">www.scrs.org.uk</a>
24 <sup>th</sup> Jan	<b>Fix-It, Advice, Chin-Wag, Move-It-On</b>
25 <sup>th</sup> Jan	Dorking & District Radio Society – Meetings 2 <sup>nd</sup> & 4 <sup>th</sup> Tuesdays @ Friends Meeting House, Butterhill South Street, Dorking – opp. Spotted Dog. Details: John G3AEZ on 01306 631 236
26 <sup>th</sup> Jan	Mitcham & District ARS (Meetings normally last Wednesday of each month) @ ATC Headquarters, Commside West, Mitcham. Sec: Mike Knott G0WCR 020-8764 4716
26 <sup>th</sup> Jan	Crawley ARC – AGM. Meetings normally held @ Hut 18, Tilgate Forest Recreational Centre, Tilgate Forest, Crawley – 7.30pm. Sec: Keith G8KZZ 01403 257788 <a href="http://www.carc.org.uk">www.carc.org.uk</a>
28 <sup>th</sup> Jan	W&DARS – “Picatune” construction & “On-Air” @ St. Andrew's Church Hall, Herbert Road, Wimbledon – 7.30 for 8pm 2 <sup>nd</sup> & last Friday's Details: Jim M0CON on 020-8874 7456 <a href="http://www.wadars.thersgb.net">http://www.wadars.thersgb.net</a>
7 <sup>th</sup> Feb	<b>“German WW2 Radios” with Brian G8DIU</b>

7 <sup>th</sup> Mar	<b>Spring Surplus Equipment Sale</b>
19 <sup>th</sup> Mar	<b>SRCC Dinner – Mitcham Park Place –</b> contact Ray G4FFY to book your place
4 <sup>th</sup> Apr	<b>AGM</b>
9 <sup>th</sup> May	<b>Project Constructing Evening</b>
6 <sup>th</sup> Jun	<b>Construction Contest</b>
4 <sup>th</sup> Jul	<b>Summer BBQ @ QTH of G4XAT</b>

SRCC Meetings indicated in **BOLD** with venue of Terra Nova unless otherwise stated.

### Rally Calendar, etc:

6 <sup>th</sup> Feb	South Essex ARS Mobile Rally, Paddocks Community Centre, Long Road, Canvey Island, Essex: Brian G7IIO Tel: 01268 756331 E-Mail: <a href="mailto:brainq7ii@yahoo.com">brainq7ii@yahoo.com</a> Web: <a href="http://www.southessex.ars.btinternet.co.uk/">www.southessex.ars.btinternet.co.uk/</a>
5 <sup>th</sup> Mar	Crystal Palace Radio & Electronics Club Spring Fair at St. John's Hall, Sylvan Road, London SE19. 10:30am to 1:00pm - see notice at end of Newsletter
24 <sup>th</sup> Apr	West London Radio & Electronics Show, Kempton Park Racecourse. Doors open by 10:15 Entrance still £3.50 Web: <a href="http://www.radiofairs.co.uk/">http://www.radiofairs.co.uk/</a>

### Contests:

9 <sup>th</sup> Jan	80m AFS CW Contest – See below
15 <sup>th</sup> Jan	80m AFS SSB Contest – See below
6 <sup>th</sup> Feb	70cm AFS SSB Contest – See John G8IYS below

### CLUB ACTIVITY: 80m AFS 2005

It's that time of the year again and this popular club event has something for everyone. What better way to start contesting than in AFS? You can contribute by just participating and gathering points for your team and Club. Enjoy the local rivalry, it's great fun! You don't need to have a high or complex antenna either, a simple low dipole works well.

**Dates:** CW Event: Sunday 9<sup>th</sup> Jan 2005  
SSB Event: Saturday 15<sup>th</sup> Jan 2005

**Time:** 1400 – 1800 UTC  
**Frequencies:** CW: 3510 - 3590kHz – RST + Serial  
SSB: 3600 - 3750kHz – RS + Serial

Each team comprises of 5 club members for the CW event, and 3 for the SSB event; within 50 miles of the meeting place and each station can be single or multi-operator. I hope to be giving the SSB event a go and will be collating/computerising the logs. Looking forward to more members on this year, why not join up with someone to spread the resources required.

Details on this web site:  
<http://www.contesting.co.uk/hfcc/rules/rafs.shtml>

### VHF NFD 2004 and 2005

A reminder that in the Mix & Match we came 2nd out of thirteen entries (was 2<sup>nd</sup> out of 9 entries in 2003). Here is a quick comparison of Claimed versus Actual, and Mix & Match positions (Section Position):

	Claimed	Actual	% Lost	Position
<b>50MHz</b>	8833	8093	8%	11 <sup>th</sup> (16 <sup>th</sup> )
<b>144MHz</b>	63669	66432	5%	1 <sup>st</sup> (2 <sup>nd</sup> )
<b>432MHz</b>	16506	20517	9%	1 <sup>st</sup> (2 <sup>nd</sup> )
<b>1296MHz</b>	3248	3055	9%	4 <sup>th</sup> (3 <sup>rd</sup> )

Chatting with John we have set an Inquest and Planning Meeting for Monday night 17<sup>th</sup> Jan 2004 from 8pm at his QTH of 18 Riding Hill, Sanderstead, CR2 9LN. Please advise John of your intention to attend either on 020-8657 0454 or [johns@connectnet.org.uk](mailto:johns@connectnet.org.uk)

## Members News

### - John G8IYS

Recently received an E-mail from John containing the following updates:

"Hi Ray. Good wishes to Mary and yourself. 17 Jan is ok for the inquest/planning meeting at my QTH and I have pencilled it on the 2005 calendar. Spent quite a lot of the holiday in bed with either the flu or the worst cold I have ever experienced - still coughing a bit.

I will try to do some more analysis of the results, but so far most folk slip with a /P which should or should not be there, or a locator which is almost but not quite right. No howlers with F stations in the north sea this year. Graham appears to be best op on 70cm with best DX worked and no logging errors. He was quite pleased when I told him.

Also, it is not too early to seek to identify a team for the 70cm AFS contest on Sunday 6 Feb. 0900 to 1300. 3 people would form a team. I shall be available but we need two others - some experience and a reasonably competitive set up at home would be nice - here's hoping.

Talking about competitive, you might like the attached pic which is my 2 x 21 ele Tonna stack on 70cm which I put up a few weeks ago - just in time for the big tropo lift. Worked 2 SPs and an OE and quite a lot of distant DLs. Best DX was SP3EPX in JO83 - 1156 km. In one hour I scored almost as many points as we did on Field Day over 24 hours. Of course so did everyone else!. Most interesting experiment was with Tom DG7TG in JO43 at 666 km. He started with 100 w and was S9. He was still S7 with one half watt output.



The pic also shows the home-brew half wave coaxial combiner - constructed in ali 20mm id box-section for the outer and a former immersion heater thermostat element for the inner. Reflected power is only just discernable and the match is actually better than it was with just a single antenna. Next run out for the kit will be this afternoon (29 Dec) in the Xmas cumulatives and the 70cm activity evening on Tues 11 Jan.

All the best from John G8IYS."

### - Peter M3UYP Success

Peter is now the proud owner of the Call: 2E0UYP - well done.

### - Phil G4RSY new E-Mail Address

Phil has advised me of his new E-mail address of: [g4rsy@hotmail.com](mailto:g4rsy@hotmail.com)

### - Alan G7ELG new E-Mail Address

One Tel have changed their UK domain name meaning that Alan's E-Mail address is now: [ali\\_s@onetel.com](mailto:ali_s@onetel.com)

### - Ron G3ODY - Silent Key

I am sorry to advise that Ron Field, G3ODY, became a silent key on 6th December 2004. Although not now a member of the SRCC and the RSGB, he was for many years after the war a very active member of the club. He was also very active on VHF NFD on the 2m station, where they used his call for a very long time. He will be sorely missed and leaves a wife and two daughters.

### - Reduce costs of 0870 Numbers

Try looking at this site: <http://www.saynoto0870.com/> which Charles MOBIN kindly passed on to me.

### - SRCC Club Dinner: 19<sup>th</sup> Mar 2005

The last committee agreed that we should hold another Dinner at the Beefeater Park Place in Mitcham where we have had successful dinners over the past few years. I shall be pleased to take your bookings on a first come first served basis - [secretary@g3src.org.uk](mailto:secretary@g3src.org.uk) or 07949 533839

### - Members' Report on HF Convention (HFC), Gatwick

Paul M3TZO kindly sent me the following report on his visit recently to the HF Convention held in Crawley:

"Having spent the last 2 days here at the HFC, I thought I would write a report from my "newbie" perspective.

I have been a licensed for less than a year and this was the first major event I have attended. But within moments of walking through the doors and paying my entrance fee, I saw people I knew. These included members from [SCRS](#) and the [Whitton Amateur Radio Group \(WARG\)](#).

I was originally going to do my Intermediate and Advance courses, but as it got closer to event I still hadn't done any soldering so will be doing the Exams at a later stage. This left me able to go to some of the lectures and other attractions on offer instead.

The lectures I attended were the [3B9C Rodrigues Island Expedition](#), Development and design philosophy of the [Yaesu FT DX 9000 Elite-Class HF/50 MHz Transceiver](#), Wire Antennas, Basic QSOs in Foreign Languages, [World Wide Young Contesters \(WWYC\)](#), Star Software and the [3B9C DXpedition](#) and the Raffle Draw & Farewell from [RSGB](#) President.

I also took the opportunity over the weekend to visit the stalls from the [RSGB](#) and [ML&S](#).

The HFC over the weekend had a station available for visitors to operate with the call MB2HFC. There were 2 radios available for use. I was in awe at how fast the Morse operators were logging whilst CW was being used.

I was going to leave early on the Sunday but decided to stay until after the Raffle. There were 2 big prizes supplied by [Yaesu](#) and [ML&S](#) as well as various other smaller prizes. But alas it was not my day to win, maybe next year.

Photos from the event in [ScrapBook](#)

Report by Paul (M3TZO) 25<sup>th</sup> Oct 2004"

His own web site is: <http://www.gadget17.myby.co.uk>

### Amateurs Gain 7.1-7.2MHz

In case you didn't know we have gained access to the 7.1 to 7.2 MHz as of 31<sup>st</sup> Oct 2004. Ofcom have granted this on a Secondary (non-interference) basis and it is recommended that only Voice and Morse be used in this segment. The Bromley club web site (which is very professional) has a lot of info on this, take a look at: <http://www.bdars.org/genesis/a105.html>

### CATS Committee Changes

Andy G0KZT has advised us that following the recent CATS AGM their new Secretary is now Dave Young G8VXB, with the Newsletter role picked up by Andy Jackson G8JAC. Andy had been Secretary & Newsletter Editor for the last 6-years but is freeing up his time for new responsibilities when their first harmonic arrives.

### SIGNING OFF:

I think that is it for this month, if I have missed anything I give my apologies and hopefully remember it next month. For our main meeting on Monday Jan 10<sup>th</sup> we welcome Dr David Foster for his talk on "The Flying Flea" and don't forget the VHF NFD Meeting on Monday 17<sup>th</sup> Jan at G8IYS's. In closing, may I wish all members, friends and readers a very happy and peaceful New Year.

Ray G4FFY

73 and 88

Posted: 6<sup>th</sup> Jan 2005

WEST LONDON RADIO & ELECTRONICS SHOW  
A PREMIER RALLY FOR THE SOUTH OF  
ENGLAND

KEMPTON PARK RACECOURSE

SUNDAY 24th APRIL 2005

Doors open 10:15 - £3.50 entrance  
(under 16's free)

*RadioFairs*

Some of the Show supporters are listed below, and for more  
[show](#) info click on the logo above. . .



Waters & Stanton PLC

[SyCom](#)



# Crystal Palace Radio & Electronics Club

G2LW

Web site: <http://www.members.aol.com/rfcburns>

## SPRING RADIO & ELECTRONICS SALE

Amateur Radio, Electronics, Computing, Tools etc.

**Saturday 05 March 2005**

**10:30am to 1:00pm**

**At St John's Hall, Sylvan Road, London, SE19**

Tables for sellers (access at 8:30am):

Booked and paid in advance	£6.00 each
On the day (if any available)	£8.00 each

Admission (includes one free drink)	£1.00 each
Children free (under 16 years old)	

Refreshments available

Contact Bob on 01737 552170 or by email to [rfcburns@aol.com](mailto:rfcburns@aol.com)  
if you wish to hire a table or require more information

Location of hall:



### Public Transport:

- Free local parking.
- Buses: 410 along Sylvan Rd., 468, 196, 249 on nearby roads.
- BR Stations: Crystal Palace and Norwood Junction.