

G3WSC
G6RC
GX3WSC

CARC News Bulletin

October 2015

Crawley Amateur Radio Club

Editor: John G4PEO

CARC DATES

October 14th (Wednesday)
Backpacking the Grand Canyon.
A film presentation by Phil, G4UDU
October 24th (Saturday)
Club Meal, The Crown, Turners Hill
November 5th (Thursday / HARC)
HARC - CARC Challenge. (G3VKW)
November 15th (Sunday)
Table at CATS Bazaar
November 25th (Wednesday)
SUSY Radio by John G8MNY
December 5th (Saturday)
CARC Fish & Chip Supper. (M0TZZ)
December 16th (Wednesday)
Resolving antenna gain issues.
Mike Underhill G3LHZ

Also of Interest/Other Clubs:

Horsham ARC (HARC)

www.harc.org.uk

1st October: Junk Sale

15th November: Fox Hunt

Crystal Palace REC

www.g3oou.co.uk

**2nd Oct: Computation Techniques
& Modelling Dr Nathan Brown**

**6th Nov: Electronic Components
Sutton & Cheam & District**

<http://scrs.org.uk>

15th Oct: Friedrichshafen.

19th Nov: Digital ATV Primer

Mid Sussex ARC

www.msars.org.uk

16th Oct: Table Top Sale

23rd Oct: AGM

CATS (Coulson)

www.catsradio.org

12th Oct: Dead Bug Construction
Bob G300U

9th Nov: Construction Evening

15th Nov: CATS Annual Bazaar

**Nov 8th: West London Radio &
Electronics Fair - Kempton Park**

Updates to the CARC program check:

www.carconline.blogspot.co.uk

or contact John G3VLH:

john.longhurst(at)hfcom.net

News Bulletin items contact G4PEO:

john(at)g4peo.net

CARC meetings are held in our club room at
Tilgate Park, Crawley, West Sussex.

Every Wednesday: 8pm
Every Sunday: 11am - 1pm

Formal events are normally held on the last
Wednesday of the month, 7-30pm for 8pm.

*For further information about CARC, please
contact the Hon Secretary:*

Phil, M0TZZ, secretary@carc.org.uk



Welcome to the **October 2015** edition of the News Bulletin.

Unfortunately not a lot to report for this edition, I'm guessing radio matters has taken a bit of a back seat on account of other distractions allied to our scorching sun drenched (!) summer...

The HF bands have been dire, and seem to be taking their time to recover, whilst 6m/4m have been rather disappointing, having not produced any really spectacular DX via E's, although there have been a considerable number of openings, mostly into the far reaches of Europe, European Russia, North Africa/Canaries and Iceland.

As it was the summer break for most people, there was no scheduled meeting in August, so very little club activity to report on, however, congratulations must go to **Mike GOKAD**, who was busy in the club shack wringing every last ounce of performance out of the 2m equipment, resulting in CARC's first successful moon bounce QSO. More details on page 4.

Please note a change to the CARC programme previously shown in the August News Bulletin. Originally scheduled for Wednesday, October 21st meeting, was a talk by **Mike Underhill, G3LHZ**, on antenna gain measurements. This has now moved to Wednesday 16th December. It's also worth a reminder at this point that the annual CARC Fish & Chip Supper is scheduled for Saturday the 5th December.

There is also time to contact **Alister, G3ZBU**, g3zbu@hotmail.com, if you would like partake in the visit to the Mullard Space Science Laboratory at Holmbury St Mary on Friday 16th October.

Local Repeaters

GB3MH: 145.625MHz / 88.5 GB7MH: 439.6375MHz (D-Star)

GB3WS: 145.750MHz / 88.5 GB3NX: 430.850MHz / 88.5 (Input 438.450MHz)

GB3NS: 439.675MHz / 82.5 GB7NS: 439.1625MHz (DMR)

President: Derek Atter (G3GRO)

Hon Treasurer: Howard Palmer (G4PFW)

Hon Secretary: Phil Moore (M0TZZ)

Programme Secretary: John Longhurst (G3VLH)

Committee Member: Alex Sheppard (M1YAP)

Shack Managers: Mike Davies (GOKAD), Rob Barter (M0ZAF)

Chairman: Keith Evans (G3VKW)

Vice Chairman: John Longhurst (G3VLH)

Exam Secretary: Phil Moore (M0TZZ)

QSL Manager/News Editor: John Pitty (G4PEO)

Training Lead Instructor: Malcolm Harman (G3NZP)

Committee Member: Richard Hadfield (G4ANN)

Calendar Items - October & November

A Nice Walk in May - Backpacking the Grand Canyon - Phil, G4UDU - Wednesday 14th October.

Phil, G4UDU, decided he would like to walk down into the Grand Canyon - so he did, recording his trip as he went. Make sure you see the results of Phil's endeavors in his not to be missed video presentation.



Images courtesy
G4UDU

Club Dinner - The Crown, Turners Hill. Saturday, 21st October.

The bi-annual club dinner is back by popular demand and along similar lines as before. Cost is to be confirmed, but likely to be £20 for three courses. A list for those interested will appear on the notice board at the club, but you can also speak to/email Club Secretary, **Phil, MOTZZ** to signify your interest and for further details.



Annual HARC (Horsham Amateur Radio Club)- CARC Challenge. Thursday November 5th.

This year CARC will be the guests of HARC in the annual HARC- CARC challenge. Can CARC maintain their winning ways?(by 1 point last year!). If you would like to join in for a light hearted, entertaining evening with a technical 'bent', please see **Keith, G3VKW** for further details. Your club needs you!

CATS Bazaar. Sunday November 15th.

CARC is hoping have a table at the annual Coulsdon ATS Bazaar. See **Howard, G4PFW** for confirmation/final arrangements. Note that the venue has moved to a new location; further details [HERE](#).

SUSY Radio (SUSsex & SURREY) - John, G8MNY. (Engineering Team) Wednesday 25th November.

SUSY Radio is a 24hr charity radio station, (Restricted Service Licence), in stereo format with RDS, radiating 10w ERP on 103.4MHz from Reigate Hill, (also on-line). Any profits go to the IC Ward at East Surrey Hospital. Find out what it takes, (and costs!), to put this very laudable project on the air.. <http://www.susyradio.com/>

Previous Meetings & Events

Crawley Microwave Round Table Meeting, September 20th. Report courtesy Peter, G4FYY

The Crawley Amateur Radio Club was delighted to host the Microwave Round Table again this year at Hut 18. Visitors travelled from afar, the first arriving just after 09:00 hrs and the table sale was already in full swing by the 'official' start time of 10:00 hrs. Trading was brisk and the surplus equipment sale proved to be a great success again this year.

Dick, MORXZ did a sterling job again as master chef, producing a seemingly endless supply of cheeseburgers, sausage and bacon butties, coffee and tea with apple pies and Bakewell tarts to follow.

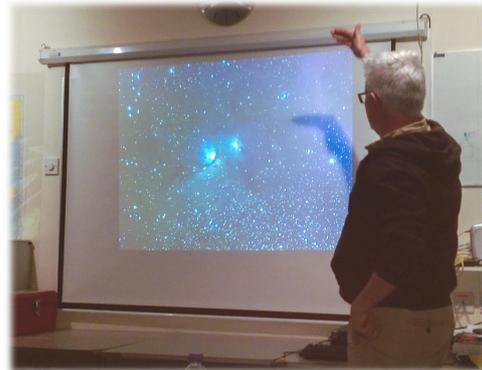
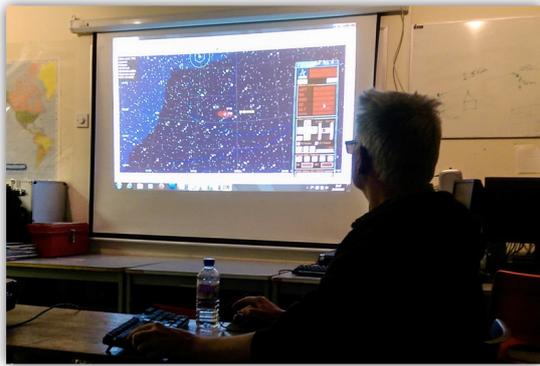
This year it was decided again to make a small voluntary charge at the door (£1) in return for a 'free' tea/coffee voucher.

The tables were cleared at 12:45pm and chairs were arranged for the afternoon talks at which point your scribe departed. Unfortunately, **Derek G3GRO** was not able to attend this year and it fell to **Stewart, G3YSX** to make the opening address on behalf of CARC. The three speakers in waiting were all experts in their field.

We look forward to hosting the Microwave Round Table Meeting again in 2016 with equal success.

Previous Meetings & Events cont:

Deep Space Photography, Chris Suddell, M0VUE



*Photos
G4PEO*

A real shame that more members weren't present to enjoy a really excellent and interesting talk by Chris, who described the methodology and costs involved in producing some really stunning images. Chris demonstrated various sophisticated free software packages used to locate, capture and process the images, whilst also showing how a simple web cam attached to the telescope viewfinder could be utilised as a perfectly adequate camera. However, when it comes to employment of motorised mounts, telescopes and filters, the costs quickly add up, to almost astronomical proportions.....

Chairmans Report - Keith, G3VKW

Hello All,

Is it really Autumn already, where did the summer go? I was hoping to get a "team" together to help me put my VHF Log Periodic onto the chimney here so I could get back on the 70- 1300 MHz bands, Oh well it will have to wait.

The club has been busy with the Reigate Contesters, and had good results on VHF Field Day. Sadly some equipment problems held the scores down, But the 1st weekend in Oct see's them out again, perfecting some of the systems. If you want to take part or tag along to see what goes on, then Contact **Mike GOKAD**.

HF conditions are still pretty dire, although just starting to improve slightly with the Autumn Equinox. Quite sad as there is a Major DX-pedition on from "E6 " Niue Island, About 1500 miles North East on New Zealand, which is making the job of having a contact with them more difficult than normal, hopefully the slight improvement in conditions will allow some club members to make a QSO.

Plans are in progress for another club dinner outing to Turners Hill, who do us proud. A list will be going up on the notice board and we are just waiting for the date confirmation from the landlord.

You may have noticed the new dish antenna outside the club house, this is an experiment to do with our club internet, to get the speed up, so we can be effectively use remote access to the club station. Also the large 2Mtr homemade beams are shortly going to be mounted at the opposite end of the club house, to give us a better moon bounce capability.

I am still looking for idea's to how we can occupy the club house, on afternoon or evening activity, for club members, to get the Hut18 usage up. It does cost us a lot of money in rent.

With autumn there is the start of the various activity contests, both RSGB or Practical Wireless. If you wish to take part in any, there may be other club members who may as well, See **Mike GOKAD** or **Phil M0TZZ**, or any of the committee if you need advice in what is involved.

73 for now,

Keith G3VKW, Chairman.

Members News

Certificate time again!
 Congratulations to **Keith, G3VKW** for coming 5th (England) in the CQ World-Wide 2014 DX CW Contest, Low power, 10m.



Important note for all CARC members.

The RSGB is inviting ALL UK radio amateurs to take part in a 10 - 30min survey, that will allow the RSGB to review its strategy for next year based on the results of the survey. It is available [HERE](#)

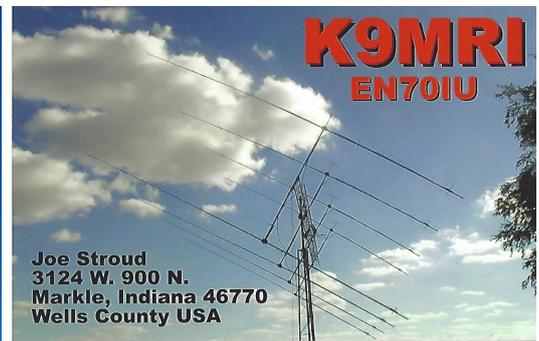
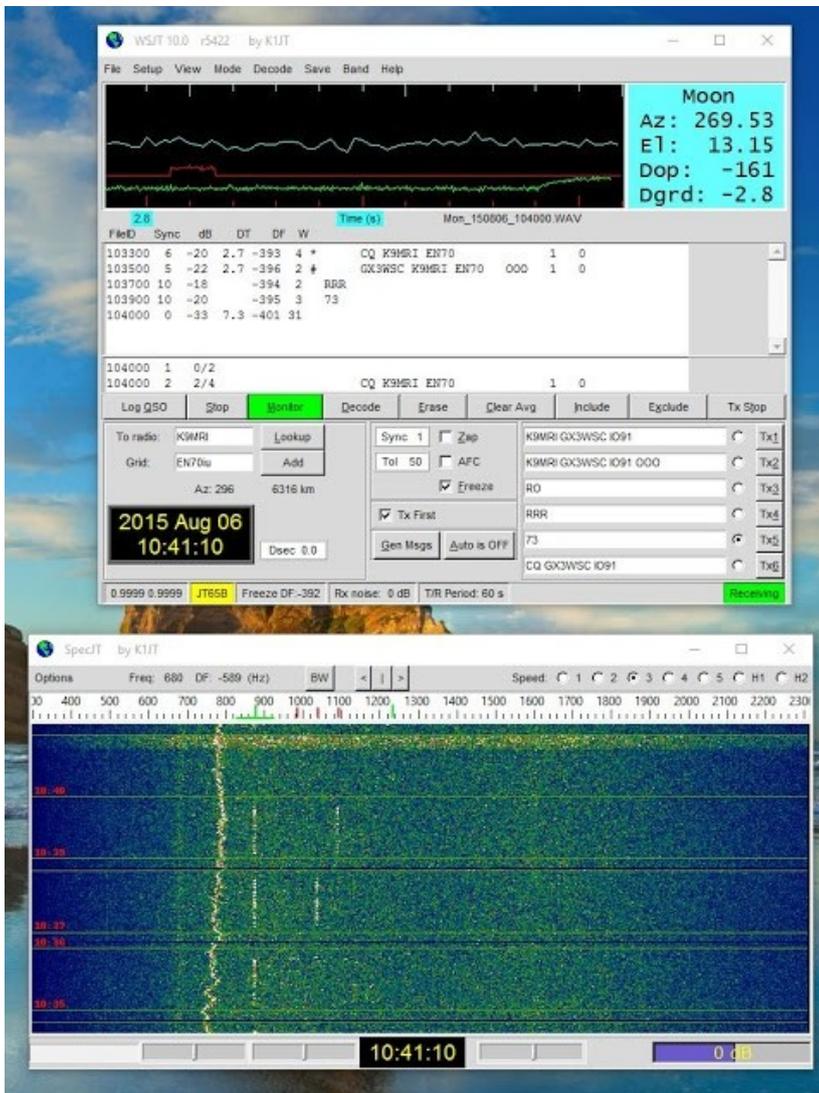
Closing date is the 31st December.

Club News

First CARC 2m QSO Outside Europe. Mike GOKAD

After a fair bit of work to improve the 2m system in the CARC Shack we've managed the first EME QSO outside Europe. Using the 17ele M2 antenna on the main tower with the newly modified PA and a Low Noise (Pre) Amplifier (LNA) down in the shack we completed with Joseph, K9MRI in Indiana.

While not audible on the speaker his signal was distinct at -20dB on JT65B. The QSO can be seen below:



Joe Stroud
 3124 W. 900 N.
 Markle, Indiana 46770
 Wells County USA

144 MHZ VUCC #1



Confirming QSO with G3WSC Day 6 Month 8 Year 2015
 Time (UTC) 1040 Freq. (MHz) 144.1 RST "0" Mode JT65B
 Propagation EME Conditions good! -22 B
 EQUIPMENT: Receiver/Transmitter TS2000 Ant. 8xM25XP
 Amplifier (Watts) 1k 8877 Other
 Remarks TRX MUCH QSL Please Thanks
FOR THE QSO
VIA MOON! Thanks for QSO!

You can see from the screen that not everything was in our favour. The degradation was borderline Good/Fair at 2.8 and the moon was at an elevation of 13 degrees which of course is on the edge of the beam of the 5WL M2. The wiggly line around 800Hz is a birdy. That said Joseph helped a lot by having eight antennas at his end and 1.5KW which makes the difference between his -20dB report and our -22dB report. There's more to come from the upgrade as the LNA is on bench test before being moved up the mast and of course we still have the 4x8ele LFAs to erect which will mean far more EME opportunities into quieter parts of the sky.