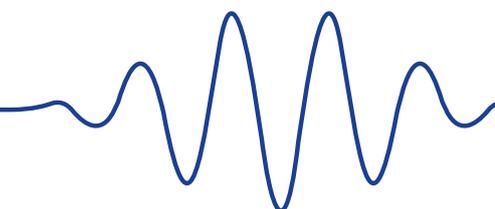




Radio Society of Great Britain

Advancing amateur radio since 1913



# Affiliated Clubs

# NEWSLETTER

## NOVEMBER 2015

This is the regular monthly Club Newsletter, sent to all affiliated clubs and societies. It contains the RSGB Matters and Around Your Region sections of *RadCom*, including all the club news and calendar information.

To include your club news into the 'Around Your Region' section, please e-mail the details to [radcom@RSGB.org.uk](mailto:radcom@RSGB.org.uk).

To get future events listed in *RadCom* and broadcast on GB2RS, e-mail details as early as possible to [radcom@RSGB.org.uk](mailto:radcom@RSGB.org.uk).

We need to know your club name, RSGB Region number, contact name & phone number, date of meeting and details of the event. Example: Fraser Road Radio Club, Region 9, Graham, GONBI, 01234 832 700, 29 Oct, On the Air.

The deadline for the December issue is 19 October. Future deadlines are always in the red box at the start of the Around Your Region section.

It is important that your club's details on the Membership database are up to date. You can update them yourself by logging onto the RSGB Club Services Portal at [www.rsgb.org](http://www.rsgb.org) using your club callsign and Membership number.

### **New-look *RadCom* coming** – are your photos good enough?

As part of the January re-design of *RadCom* announced in this issue we will be introducing **minimum quality standards for Around Your Region photographs**. Submitted images must be at least 1024x768 pixels, in sharp focus and must be adequately lit. Preference will also be given to interesting images of club activities.

## Exam Changes

The start of October saw two changes to the UK amateur radio examination system; a change to the licence questions and a change to the management of the exam system.

The change to the exam questions to reflect the changes to the licence made by Ofcom has been well publicised over the last three months, so hopefully everyone is now up to speed. The training textbook amendments, Exam Reference Data booklets and Sample Exam Papers have all been published via the RSGB website. The exam questions affected by the changes have been updated and papers have been going out in the new format for all exams held on or after 1 October. It is unlikely that the changes will be printed in the textbooks before the syllabus review is completed next year. Trainers and students are therefore reminded to check the Publications Extras webpage to ensure their books are up to date (a working web address is on the first page of every textbook).

The change in exam management will be largely invisible to Exam Centres and candidates as the changes are largely in the 'back office' with the RSGB taking over elements previous carried out by the RCF. The new arrangements were agreed by Ofcom, the RCF and the RSGB and a new agreement between Ofcom and the RSGB is on the RSGB website. Full details of the changes and a set of FAQs have been sent to all Exam Centres via their Examination Secretaries. Steve Hartley, GOFUW, has been appointed as the RSGB Board Liaison Member to the Examination Standards Committee, chaired by Simon Watts, G3XXH. To ensure probity examination business will be kept quite separate from training and a new Examinations Audit Committee will ensure that the system remains 'fit for purpose'. The Examinations Audit Committee will be chaired by a suitably qualified and experienced person by mutual agreement between the RSGB and Ofcom. Alan Messenger, GOTLK, is the Board Liaison Member to the Training & Education Committee, chaired by Philip Willis, MOPHI.

## Deputy AROS coordinator vacancy

The Amateur Radio Observation Service (AROS) has an important role as it works behind the scenes, largely independent of the rest of the RSGB, to assist radio amateurs and others to investigate reports of licence infringements and poor operating that might bring the hobby into disrepute. The deputy coordinator will work closely with the coordinator to support and organise any investigation carried out by its group of observers and liaise directly with Ofcom. A good working knowledge of amateur radio is needed, along with a discreet but objective approach to problem solving and issue resolution, and a track record of good interpersonal skills. Applications by CV, or expressions of interest, should be sent to Graham Coomber GONBI, General Manager, graham.coomber@rsgb.org.uk or by mail to 3 Abbey Court, Fraser Road, Priory Business Park, Bedford MK44 3WH to arrive by 30 November. Mark Jones, GOMGX, AROS coordinator would welcome informal enquiries via aros@rsgb.org.uk

## SES NoVs

Ofcom have confirmed that Special Event Station (SES) NoVs may be used on all the amateur bands listed in the amateur radio

licence. (The application form suggests that they are limited to most of the HF bands).

## RadCom Basics

The current edition of *RadCom Basics* is now available via the Members section of the RSGB website. Look out for articles on:

- PSK31, work the world with low power
- What is amateur television?
- How to use an SDR dongle as a VHF/UHF receiver
- Making the most of 15m

The next edition of *RadCom Basics* is due out in the first week of December. This edition will contain features on:

- Hot Christmas presents for radio hams
- Does Morse reading software work?
- Making the most of the low bands this winter
- How to send and receive QSL cards

To download your copy, go to <http://rsgb.org/main/publications-archives/radcom-basics/>

**RadCom**  
basics

## Regional Council

Philip Hosey, MIOMSO, acting chairman of the Regional Council, attended the recent Board meeting to discuss the challenges faced by the Council, one of which was attracting volunteers to undertake roles in the Regional Teams. The Board gave its full support to Philip in his efforts to increase the effectiveness of the Council.

## HF DXpedition Fund Trustee vacancies

We have two vacancies for Trustees to administer the RSGB HF DXpedition Fund, which has been running for many years to provide financial support for groups running HF DXpeditions of interest to stations in the British Isles. Its funds come mostly from the proceeds of the raffle for the generously donated prizes at the RSGB Convention, but individual legacies and donations are also received. Further details of the fund can be found at <http://rsgb.org/main/operating/hf-dxpedition-fund/>

The work load is not onerous but a good understanding and experience in HF DXing along with good judgement and communication skills are required.

Expressions of interest and further information can be obtained from John, G3WKL RSGB President ([g3wkl@rsgb.org.uk](mailto:g3wkl@rsgb.org.uk))

## G3ENI Silent Key

John Pegler, G3ENI became a silent key in September after a very short illness. He had a lot to do with the 5MHz experiment and contributed many articles over the years to *RadCom*. He was also a founder member of the RNARS and served in the Navy for many years. He will be missed by his many amateur radio friends and our condolences go to his family and friends.

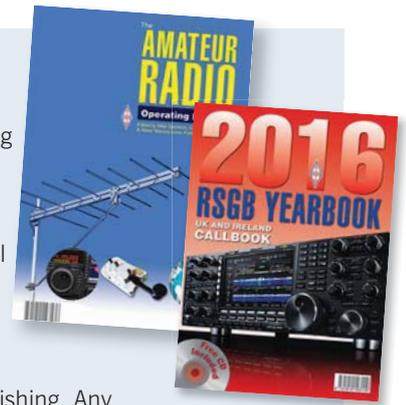
## WRC-15 and 5MHz

IARU Region 1 reports good progress was made at the final European preparation meeting for the World Radio Conference that will be held in November. For 5MHz, CEPT have agreed that the overall range should be 5350-5450kHz, though opposition at the Conference is still expected. However, this is not likely to result in any changes to the 5MHz spectrum allocated for UK amateur use in the near future. Proposals for the future harmonisation of the 1.8 and 50MHz bands have also been developed and it is hoped that at least one of these gets adopted as an agenda item for the next conference in 2019. Further information is available online at [www.rsgb.org/wrc-15](http://www.rsgb.org/wrc-15)

## Publications Strategy

The RSGB Board has agreed to form a small working group to review the book publications strategy and make recommendations. We are therefore looking for people to join the group who have experience of book sales and publishing in general. The group will probably not meet physically and may only hold a few virtual meetings before it reports its findings to the board. We are particularly keen to include the perspective of those who understand the recent developments in the book market and/or niche publishing. Any member can apply and we would welcome anyone who feels they have something to contribute.

If you wish to volunteer please email [publications@rsgb.org.uk](mailto:publications@rsgb.org.uk) outlining how you can help.



## 146-147MHz NoV experiment extended

Ofcom has agreed that Full licence holders (including Club/Reciprocal) may continue to have temporary access to this part of the spectrum for a further 12 months when the existing NoVs expire on 31 October 2015; a new NoV must be applied for via the RSGB website.

For the latest 2015-2016 version, Ofcom has agreed to a Society request that means the exclusion of certain NGR squares is no longer an explicit restriction. However in order to achieve compliance with the conditions of the NoV, those squares are where particular caution is still required. Achieving compliance with the HCM condition may require lower power than 25W ERP, or use of directional antennas that must beam away from international borders. NoV restrictions include absolute band limits, and a band limit of 146.9375MHz in or within 40km of Scotland, as well as compliance with the HCM agreement. Power is 25W ERP max and the maximum permitted antenna height is 20m above ground level. For full details see <http://rsgb.org/main/operating/licensing-nov-visitors/online-nov-application/146mhz-147mhz-nov/>

## Dutch News

Michael, PE1SCM, from the Dutch Amateur Radio Society visited the National Radio Centre at Bletchley Park recently. He asked Tony and Peter if they would do a short interview for their Society's Saturday news transmission. Michael said he would edit the short interviews and it was transmitted as part of the news service the following Saturday at 1000CET on 7045kHz, 145.250MHz and 70.450MHz in PSK31, RTTY then voice. There is also an audio link on their website at [www.PIVRZ.nl](http://www.PIVRZ.nl)

## The future of RAYNET

The RSGB and the Radio Amateurs Emergency Network (RAEN) formed a Joint Working Group (JWG) in 2014 to 'facilitate a closer working relationship between the two organisations and to explore ways in which RAYNET could become a single unified body'.

As part of that process, the JWG asked all RAYNET members to voice their thoughts and concerns on the future direction for RAYNET in the UK. Many members commented through the dedicated email address [future@raynet.org.uk](mailto:future@raynet.org.uk) and further responses are still welcome. The vast majority of responses support a move to one organisation in the UK concentrating on emergency communications.

The JWG has met twice in 2015 and is working to formulate a future vision of the organisation that takes into account the needs of RAYNET and the opinions of its members. All parties wish to see a closer and more inclusive relationship between the RSGB and RAYNET. To this end, the RSGB Board has suggested that RAYNET could be treated as a special interest group much like AMSAT-UK.

Draft proposals are being formulated and will be published shortly. The JWG will again invite comments on the draft documentation as part of its consultation process.

## CONGRATULATIONS

To the following Members whom our records show as having reached 70, 60 or 50 years' continuous Membership of the RSGB.

### 70 years

Mr B Sykes	G2HCG
Mr J E T Lawrence	GW3JGA

### 60 years

Mr G E Mackrell	G3KAX
Mr A D Patterson	G13KYP

### 50 years

Mr N E A Rush	G3HBZ
Mr A Ash	G3PZB
Mr M R G Simpson	G3UVM
Mr M G Pritchard	G3VNV
Mr D C Holland	G3WFT
Mr D C H Minet	G3WPP
Mr D F Chalmers	G3WQG
Mr J P Smith	G3WTS
Mr P J Senior	G4JNL
Mr D Fillingham	G4OVR
Mrs M A Newnham	G6NZ
Mr A J Whittaker	G8BFM
Dr D A Nicole	MOCYJ
Mr A Cobb	GOWJK
Mr M Hughes	GW3VFX
Mr H Pitchford	RS27350
Great Yarmouth Radio Club	G3YRC

## Around Your Region photograph quality

As part of the forthcoming re-design of *RadCom* mentioned in previous issues, we are starting to implement quality requirements for Around Your Region photographs. Submitted images must be at least 1024x768 pixels, in sharp focus, and adequately lit. Any modern mobile phone camera or DSLR is easily capable of meeting these minimum requirement. Please do not resize your images or overprint them with captions.

Preference will be given to interesting images of club activities.

## Recognising and Encouraging Volunteers

There is no doubt that the success of the RSGB's support for amateur radio is founded on the unstinting efforts of its volunteers. The Society is its Members and, if it were not for the input from the many Members who freely give of their time and expertise, the reach of the Society would be far less. Here we highlight the work of two areas of voluntary activity and give an insight into the roles that individual volunteers play that demonstrates the breadth and scope of voluntary endeavour.

### VOLUNTEER SPOTLIGHT Andy Talbot, G4JNT, Technical Forum Chairman



The Technical Forum is a small team that provide the 'sanity check' for technical articles in *RadCom* and other RSGB publications. Mostly this involves little more than a read through to see that anything to be published is sound, safe and not silly. The various members making up the TF have a wide range of expertise and experience that can root out the deeper stuff

authors and editors might miss. This can have surprising side effects. One member reviewed a CW trainer project and was so intrigued by it he made one up and with the help of the author programmed the chip with other features.

Every December through January means it's time to choose winners of the five technical AGM awards. Most of these are for published works, so choosing suitable contenders involves all the members of the Forum going back through that year's *RadComs*; looking around for good articles in other publications which nowadays even means works published privately on the web.

When a shortlist has been drawn up, there is a democratic majority vote for the winners.

We are always on hand to offer help to potential authors. Sometimes this can involve modifications and suggested changes to their project to make it safer / better / nicer to use; sometimes just a better way of saying something in print or describing what it does. Occasionally a prospective author with a good article just cannot put anything on paper; not everyone can write. We once had to ghost write a technical article from scribbles on the back of an envelope.

We are always around to offer individual technical help if needed. If no member can help directly, we can probably put you in contact with someone who can.

Finally I'd like to add a sad note, Alan Boswell, G3NOQ, one of our venerated members died recently and he will be sadly missed.

Andy Talbot, G4JNT



TO BECOME A RSGB VOLUNTEER E-MAIL [GM.DEPT@RSGB.ORG.UK](mailto:GM.DEPT@RSGB.ORG.UK)

### VOLUNTEER SPOTLIGHT Steve Hartley, GOFUW, RSGB Director



In my role as Director I hope to help Members by working with the other Directors to ensure that the Society is on the right track. With that comes some governance work to assure ourselves that the Society has, and is working to, appropriate policies and procedures and has the resources to sustain it into the future.

In addition to the collective Board work I have a number of liaison roles. For the first year of my time on the Board my links were with the Training & Education Committee (TEC), and the Communications & Media Group. I also took on the formation of the Youth Committee. As TEC Chair I helped get the Train the Trainers course back up and running, organized a couple of Exam Question writing workshops, arranged for the UK to be represented at the IARU Youngsters On the Air in Finland and helped arrange YOTA month. I was also asked to represent the RSGB as a Trustee of the charity, the Radio Communications Foundation. Now in my second year on the Board, I no longer have the TEC liaison role, but have picked up a new role covering examinations.

As a Director there are not many days when I am not dealing with RSGB e-mails, drafting or reviewing documents, answering telephone calls, having Skype meetings or attending physical meetings. We have a Board meeting one Saturday every month

and the preparation/follow on work usually takes a day or two. We have two Leadership Team meetings a year and I try to sit in on the meetings of the Committee have links with too. The charity work with the RCF has strong links with the Arkwright Trust and I have been actively trying to make more radio-related benefits available for our scholars. I try to get to as many of the local rallies as I can and this year will be at the Hamfest and the Convention.

I am lucky enough to be semi-retired so I am able to devote a fair amount of time to my role as a Director. My XYL does get quite cross at times and says 'you used to get paid for being this busy'; quite true but, if I did not want to do it, I wouldn't! Many people assume that RSGB Directors are paid but I can assure you that is not the case; we are all volunteers.

What I enjoy most about my role are the intangible rewards that come from a job well done, like when someone says "thanks", or when a project is complete and you know it went well. Some people say that it is a thankless job, but that is far from the truth, many members do appreciate my work and it is great when they let you know.

Steve Hartley, GOFUW



TO BECOME A RSGB VOLUNTEER E-MAIL [GM.DEPT@RSGB.ORG.UK](mailto:GM.DEPT@RSGB.ORG.UK)

## DRM Wanted

There is a vacancy for a Deputy Regional Manager for Hereford and Worcestershire area (DRM 53). Basic IT skills and an available vehicle are essential but, above all, enthusiasm for amateur radio and willingness to promote the RSGB. Ideally the appointed person will live within either of these two counties. For further details please contact the West Midlands Regional Manager (RM 5) Martyn Vincent, G3UKV, email to [rm5@rsgb.org.uk](mailto:rm5@rsgb.org.uk) or on 01952 255416.

## QSL Matters

It's now some time since we began our campaign to encourage a more responsible outlook to QSLing across the worldwide amateur community. This set against a background of rising handling/shipping costs, increased DX, Contest and special event activities. We are just beginning to see the first effects of change as more stations move towards using OQRS, rather than QSLing 100% outgoing, as a matter of routine. Most large DX activations now openly state on their web pages that they respond to on-line requests or emails and do not wish to receive paper cards, a great help to every bureau!

We asked two major, independent, UK QSL managers, Tim, MOURX and Charles, MOOXO, both of who specialize in handling logs and cards for DXpeditions and DX operators, for their view on how QSLing is changing. They reported that around 75% of requests are now made on line, as opposed to 50% OQRS and 50% card/direct letter, just 2 years ago. They also told us that UK amateurs are, in the main, using OQRS to request cards but that many overseas stations still have to make the change.

Online payment for DX cards and the ending of International Reply Coupons has almost certainly made a difference.

On his web-blog, Tim has written about a consignment of cards recently received from our bureau – for space reasons we can't

duplicate it here but it does make for interesting reading and can be found at [www.mOurx.com/](http://www.mOurx.com/)

When it comes to who generates most work for the UK side of our operation, it's a close tie between Special Events and Contesters, (single letter calls). It's no understatement to claim around 50-100,000 cards are in work/transit for each of these two groups every year. If every GB station, Single Letter contesters and Club changed to OQRS it would not only cut costs for those stations but would almost certainly improve turnaround times for everyone.

Many readers will have already have obtained their own copy of the *RSGB 2016 Yearbook* and every Affiliated club will shortly receive its own copy. The QSL pages contain a wealth of information and advice for Members, including how to use OQRS, the recently introduced Fair Usage Policy and, best of all, handy checklists for both sending and receiving cards.

The *Yearbook* also includes an excellent example of a well laid out, easy to read and process card, courtesy of G4EZX with provision for four QSOs on one card. It's a really good cost saver – finding more than 20 separate cards for a multiband/multimode exchange in our postbag is not uncommon!

### The RSGB would like to welcome to the RSGB family the following new Members who have joined their voice to ours and are helping to keep the RSGB strong.

Mr M Kerr, 2EODPV	Mr R Morrall, G8ZHA	Mr Ashley Utting, M6KFX	Mr A Wood, RS305285	Mr D Livingstone, RS305838
Mr R Lyddall, 2EODPZ	Mr N Evans, GW6EWX	Mr S Baines, M6LUE	Mr S Kent, RS305409	
Mr P Cairns, 2EOLKC	Ms C Somerville, GW6IVY	Mr C McNaughton, M6MKF	Mr A Coats, RS305573	Magnetic Fields Contest Group, RS305859
Ms A Bates, 2EOLMD	Mr S Magee, GW7VFJ	Mr J Carrington, M6NTK	Mr S Gibson, RS305648	Mr J Hadley, RS305862
Mr J Philpot, 2E1BFP	Mr K Mitoshi, JL1HID	Mr D Atkinson, M6NTZ	Mr N Furneaux, RS305662	Mr K Beswick, RS305869
Mr G Cattle, 2WOKMU	Mr J M Robertson, K5JMR	Mr P Blundell, M6PBB	Mr S Admans, RS305671	Mr C Glaister, RS305902
Mr T Rees, 2WOTRR	Mr R Jacobs, KA3PCX	Mr P Richards, M6PVR	Mr E P Harper, RS305696	Mr D Kelly, RS305906
Mr B Thompson, AA1IP	Mr C Pollard, KF3F	Mr N Monaghan, M6RKK	Mr J A R Hingley-Hickson, RS305697	Mr J Arthur, RS305921
Mr E Lopez Martinez, EA8AXT	Mr C Jewell, MODWK	Mr P Sykes, M6SYK	Mr G Kittle, RS305698	Mr A Storey, RS305924
Mr D Lennon, EI9HQ	Mr R Meadows, M0SBU	Mr D Coles, M6VTG	Mr P Athersmith, RS305710	Mr T Holmes, RS305955
Mr M Blockley, G1FYU	Mr P Richards, M0WCQ	Mr R Kirkby, M6XRK	Mr I Richard, RS305712	Mr J Neal, RS305958
Mr R Heywood, G1MET	Mr R Hoppe, M0WHP	Mrs B Young, M6YBV	Mr R Panchoo, RS305775	Mr G Cope, RS305986
Mr D Mercer, G1TPA	Mr D Glover, M6BRS	Mr L Sadler, M6YZV	Mr J Owen, RS305778	Mr J Primerano, VK3AJ0
Mr S Goodwin, G1WVP	Mr R Webb, M6EIG	Miss A Murray, M16CWS	Mr D Amos, RS305793	Mr T Voss, W7TLV
Mr M Thomas, G4FCZ	Mr A Nicholson, M6EQG	Mr A Mair, MM6AGM	Mr R Jervis, RS305794	Ms C Patterson, W9CYN
Mr M Swanwick, G6CZD	Mr J O'Rourke, M6FNN	Mr D Kinnear, MM6KNR	Mr D Hashagen, RS305805	Mr L S Nagurney, WA3EEC
Mr M Tegerdine, G6SIC	Mr J O'Rourke, M6FNN	Mr L Jenkins, MW3LEW	Mr I Bell, RS305806	Mr R Severson, WA6WPZ
Mr P Gledhill, G7BHE	Mr D Turford, M6GGT	Mr M Roberts, MW6FQD	Mrs S Wilkins, RS305808	Mr J O Vanags, YL3AD
Mr A Jones, G7UEK	Mr P Riley, M6GPR	Mr P Iles, MW6ILE	Mr G Sinclair, RS305834	
Mr M Parker, G8 PXI	Mr D Garratt, M6GTD	Mr R Hicks, MW6TYD		
Mr C Garner, G8RFY	Mr H McEvoy, M6HFM	Mr K Bailey, N7CCB		
Mr P Reade, G8VUM	Mr G Kokinis, M6HSY	Mr J G Keeling, RS215144		
	Mr S Lyon, M6HUL	Mr G Jones, RS304803		

### The RSGB would like to welcome back the following Members who have rejoined the Society.

Mr J Kelly, 2E0MAW	Mr A Imianowski, G4KKU	Mr D M Fielding, G8KHU	Mr W E L Easdown, M0HIZ	Mr G Stewart, M6SON
Mr B Robertshaw, 2E0VBC	Mr L I Szondy, G4OJW	Mr D J Hanson, G8KOM	Mr N Bland, M0JEC	Mr S Pendlebury, M6SPZ
Mr M Banner, 2E1GDM	Mr D F Smith, G4TBG	Mr K Aspden, G8WZV	Mr P Rodley, M0OXZ	Mrs H C McDonald, N5AX
Mr I N A Romanov, G0NHY	Mr J M J Neary, G4ZQM	Mr D Fisher, G8ZJF	Mr P Graham, M0PGX	Mr C Smithen, RS171543
Mr P L Walker, G0RSQ	Mr G Hares, G6IXM	Lord R I Pretty, G8ZXL	Mr D Russell, M1AXM	Mr H S Cowan, RS33320
Mr B J Young, G0SCI	Mr M D Ashby, G6WRB	Mr R Harrison, GD4VBA	Mr P A Gibson, M1DSE	Mr D Datwyler, WR70
Mrs C M Clark, G1GQJ	Mr M A Hartley, G7HEM	Mr A Duffy, G16ZIR	Mr A G Prince, M1TAP	
Mr M C King, G1VYK	Mr R Denton, G7TQT	Mr I A Balloch, GM3UTQ	Mr B Oldfield, M3OYI	
Mr J Redford, G3SXP	Mr S Hughes, G7VGP	Mr M Frehner, HB9NMT	Mr M P Hemstock, M3VRV	
Mr K Linney, G3UDA	Mr L G J Parkes, G8FYH	Mr A Crespo, M0FCR	Mr M Poole, M6MWP	

## Amateur TV

The newly established ATV Group, SCART (Solent Collingwood Amateur Radio & Television), is now active and meets in the RNARS Radio Shack at HMS Collingwood, Fareham, one evening a month. The group is affiliated to the RNARS, so any prospective members must also join the RNARS for a current low membership fee of £5 per year. Once the appropriate form for the Establishments' Security and the shack has been completed, a pass will be issued and will cover one person and authorised vehicle entry for that year on the monthly club nights.

They are looking for new members who have an interest in amateur radio or ATV to join the local group. If you are interested or want further information please contact Frank, GOLFI via [golfi1@ntlworld.com](mailto:golfi1@ntlworld.com)

## Special Event Stations

**GB0CIN.** On 13 and 14 November, this station will be on air from 9am to 11pm highlighting the BBC Children in Need appeal. Located in the Worksoop ARS HQ at 59-61 West Street, Worksoop, Nottinghamshire S80 1JP, operation will be on all bands from 80m to 70cm using CW, SSB, data and FM. Visitors are welcome and there will be plenty of fund-raising activities taking place.

**KC9HYY/WSL3.** On air from 20 November at 0000UTC to 25 November 2359UTC, this station commemorates the sinking of the *HMHS Britannic* on 21 November 1916. Operation will be on 10 to 40m using SSB and PSK31, with the possibility of CW. More information is at [www.kc9hyy.wordpress.com](http://www.kc9hyy.wordpress.com)

**Z38CE** will commemorate the 20th anniversary of Macedonia becoming a member of the Council of Europe on 9 November 1995. Operation will be on from 7 to 13 November. QSL via F5LGF.

## Shacklog silver anniversary

*SHACKLOG* was launched, and the first sales made, at the RSGB DX & IOTA Convention in 1990. It is logging software that allows the user to log in real-time and post-event, you can do log analysis and reporting, QSL label printing, and more. Creator Alan Jubb, G3PMRR said recently, "Who would have thought that SHACKLOG would still have a user base, albeit now a small one, 25 years later?" Discover more at [www.shacklog.co.uk/](http://www.shacklog.co.uk/)

## Three exams in one day

Many people have said there ought to be a route straight to the Full UK licence, well there is. You still need to pass all three exams but that can be done in a single day. John Macrae, MOIDA is the first on record to do Foundation, Intermediate and Advanced in a single day.

John did not come to this cold; he has held a USA licence for some time and currently holds a Maltese reciprocal licence, so he was expected to do reasonably well. He prepared by reading the three text books, arranging the Foundation and Intermediate practical assessments to be completed with a Registered Assessor, and working through the Bath-Based Advanced Distance Learning material.

The Foundation exam started at 2pm and the Advanced finished at 9pm. He got just three questions wrong between the Foundation and Intermediate exams and was awarded a Distinction at the Advanced level. Thanks go to Peter, MOPSX, for arranging the practical assessments and to the Bath-Based team for putting on the exams.



## Cook Island DX

Until 26 October, Bob, N7QT/E51MQT, Melanie, N7BX/E51MBX and Grant, KZ1W/E51MKW will activate Manihiki Atoll (IOTA OC-014) in the North Cooks.

Between 18 October and 4 November Jacek, SP5EAQ/E51EAQ will activate Rarotonga from a beachside location on the north of the island with a 500W station using vertical antennas. This will include an entry in the CQ Worldwide DX Contest, using SSB with a high power station from the shack of E50A.

From 9 to 16 November, Steve, GOKIK/E51KIK will activate Rarotonga from a beachside location on the west side of the island.

## 70cm DMR repeater in Malta

The first DMR repeater in Malta has been operating for some time and now has a new callsign, 9H1DMR. The frequencies of operation are 438.525MHz input and 430.925MHz output and it is hosted by C Bridge DMR UK, Colour Code 1 with slots TS1 and TS2.

Visiting amateurs to Malta are welcome to use the repeater using their allocated Maltese callsigns, obtainable free of charge from MCA on application.

## Fair Isle MS00XE QSLing

The Fair Isle DXpedition, MS00XE, has now ended with 5,340 QSOs in less than 1 week of operation. During that time the team experienced some of the most disturbed band conditions seen in a long time. Every day saw solar flares slamming into Earth's ionosphere causing the K index to reach 5, and the A index to stay at 59 for almost 18 hours. This caused the bands to be very unstable or closed for long periods with 10m and 12m barely workable the whole week. On 9 September the team did view the beautiful aurora that caused the bands to close.



Thank you to all who worked MS00XE. The log has been uploaded to Club Log and Logbook of The World. QSL cards will be in the print room very soon and will be posted in early October.

Please **do not** send your QSL card via the bureau. It is online QSL requests only please via the MOURX OQRS site at [www.mOurx.com/oqrs/](http://www.mOurx.com/oqrs/)

## Training slides

Chelmsford ARS has updated their training slides to incorporate the revised licence conditions introduced by Ofcom earlier this year. The revised slides are freely available for download from [www.g0mwt.org.uk/training/courses/](http://www.g0mwt.org.uk/training/courses/)

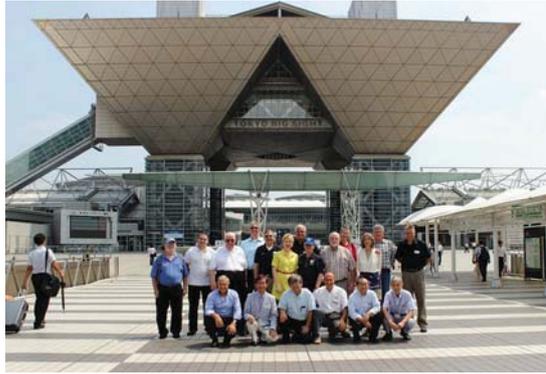
## ARISS news

The 2015 meeting of the ARISS International Working Group took place in Tokyo during August. All five space agency regions comprising ARISS (USA, Europe, Russia, Canada and Japan) were present and the UK was represented by Ciaran Morgan, MOXTD, the UK ARISS Operations lead. As the RSGB representative to ARISS, MOXTD presented an inscribed copy of *Centenary*, the history of the RSGB, to the JARL President Toshihiko Yamanouchi, JA7AIW, on behalf of the RSGB Board to mark the 90<sup>th</sup> anniversary of the founding of the JARL.

There was significant interest in the Tim Peake Principia mission and MOXTD provided three separate presentations centred around the activities that the UK are planning. The main presentation centred on the Principia mission itself. Tim Peake is very enthusiastic and has many outreach programs running before, during and after his visit to the ISS. There are a number of ARISS 'direct' contacts planned for the UK during his mission.

Tim will be taking some Raspberry Pi computers, known as Astro-Pi ([www.astro-pi.org](http://www.astro-pi.org)) to the ISS and will be running some experiments that have been proposed or developed by UK primary and secondary schools. Discussions also took place on collaborations between the Raspberry Pi Foundation and ARISS about how the Astro-Pi units can also be used in other activities related to amateur radio activities, such as using an Astro-Pi as an alternative video source for the HAMVideo system currently on board the *Columbus* ISS module whilst the permanent system is developed and made ready for flight.

Details on the flight and any other collaborations will be reported on in the future.



## 5MHz beacon

The Hungarian CW beacon on 5357kHz has now changed its callsign to HG7BHB from the temporary one of HA7SO. The power has been reduced from 100 to 50W. The antenna is a Diamond BB6W wideband HF antenna at a height of 4m.

## GB3TE

The 2m repeater GB3TE is now back on air. It is still on the original site at Point Clear (just outside Clacton on Sea) with a new frequency of 145.6125MHz, 103.5Hz CTCSS. It is working well, especially towards Colchester and surrounding areas. Signal reports would be gratefully received via the contact link on the website at [www.martellotowergroup.com](http://www.martellotowergroup.com).

## Flex demo

Klaus, DK7XL from Flex Radio Systems visited the UK in September and attended the National Hamfest, spending some time with Martin Lynch & Sons. He can be seen here demonstrating the new Maestro Controller on the ML&S stand. The show was busy on both the Friday and Saturday and many visitors had the opportunity to view this new equipment.



## Forgotten Genius

A new exhibition, Gordon Welchman: Bletchley Park's Architect of Ultra Intelligence, will reveal the story of an important Codebreaker. It follows the broadcast of BBC documentary, *Bletchley Park: Codebreaking's Forgotten Genius*. Welchman's contributions to the war effort include adapting Alan Turing's codebreaking Bombe machine, changing it into a workable machine, and establishing Hut 6. The exhibition, which opens on 25 November, will be in the Mansion drawing room that has been beautifully restored.

## WAB AGM

The Worked All Britain awards group held its annual general meeting at John Glead School, Spalding. The meeting was well attended and good humoured with many awards handed out. As usual, generous donations were made to various charities. This year, a total of £2,590 was given to The Africa Trust, Shelterbox, MacMillan Nurses, Multiple Sclerosis Society, RAIBC and Blind Veterans UK. Those who had completed the 45th anniversary Sapphire Award were given a boxed 'sapphire' to commemorate the event. Annual activity awards were given to thank and encourage those who create activity within the WAB programme. The WAB Diamond Award features a 'diamond' top and was well-received by those who have completed the challenge.



## IARU Forum

In preparation for the 2016 Region 1 Interim Meeting, the RSGB has re-opened its IARU Forums so that UK amateurs can suggest topics on matters such as operating or technical recommendations, band plans, contests and EMC. The initial phase is an open call and will be followed by further opportunities as UK papers are developed, or subsequently when all meeting papers are available. There are three separate forums covering HF, VHF/microwave and EMC matters at <http://rsgb.org/main/rsgb-consultations/iaru-consultations/> Please ensure that initial topic suggestions are submitted by the end of October.

Please send news reports to radcom@rsgb.org.uk. To get future events listed here and put on GB2RS, e-mail details of your meetings as early as possible to radcom@rsgb.org.uk and we'll do the rest. We need to know your club name, RSGB Region number, contact name & phone number, date of meeting and detail of meeting. Example: Fraser Road Radio Club, Region 9, Graham, GONBI, 01234 832 700, 29 Oct, On the Air. It's that simple. Please note that we don't normally print 'closed', 'TBA' or 'every Tuesday'-type submissions. The deadline for the December issue is 19 October and for January 2016 it's 16 November. For GB2RS, the deadline is 10am on the Thursday of the week of broadcast.

## INTERNATIONAL

**Pafos Radio Club, Cyprus**  
Richard, 5B4AJG, 00 357 97 857 891  
5b4ajg@gmail.com www.cyhams.org

## NATIONAL

**Amateur Radio Caravan and Camping Club**  
membership@arcc.org.uk, www.arcc.org.uk  
Net every Tuesday and Thursday 3.770, 8pm

### AMSAT-UK

<http://amsat-uk.org/>  
Weekly net every Sunday 10am, 3.780MHz, sometimes QSY to 40m (~7.1) due to condx

**British Amateur Radio Teledata Group**  
bartg@bartg.org.uk, www.bartg.org.uk  
Membership is open to anyone interested in amateur radio datacoms. Datacoms contests and awards organised.

**British Railways Amateur Radio Society**  
John, MOZAA, MOZAA@BRARS.info, www.BRARS.info  
Membership is open to anyone interested in amateur radio and railways.

**Civil Service Amateur Radio Society**  
Weekly net every Tuesday, 8pm, 3.763MHz

**Radio Amateur Old Timers' Association**  
MemSec@RAOTA.org, www.RAOTA.org  
Membership is open to anyone active in amateur radio. Maintaining the traditions and spirit of amateur radio. Nets on Wednesday 3.763MHz at 1000, 1.963MHz at 2100, Thursday 7.163MHz at 1100, 3.763MHz at 1930 and Sunday 3.763MHz at 1000.

**Travelling Wave Contest Group**  
secretary@twcg.org.uk, www.twcg.org.uk  
Friendly contest group for those who want to be involved with contesting, but who don't have a local club or whose club isn't active in contesting, from anywhere in the UK.

## DEADLINES

The next deadline: 19 October

## REGION 1: SCOTLAND SOUTH & WESTERN ISLES

REGIONAL MANAGER: MARCUS HAZEL-MCGOWN, MMOZIF, RM1@RSGB.ORG.UK

**Cockenzie & Port Seton ARC**  
Bob, GM4UYZ, 01875 811 723  
6 Club night  
18 On-air activity day

**Kilmarnock & Loudoun ARC**  
Graham, MM3GDC, mm3gdc@btinternet.com  
10, 24 Club meeting

**Lothians RS**  
Mike, MM0MLB, secretary@lothiansradiosociety.com  
7 Scottish Microwave Round Table at Museum of Communication  
11 APRS, Marcus, MMOZIF  
25 Digital radio techniques, Bernie, GM4WZG

## Stirling & District ARS

Myles, MMOMYL, 07890 477 516  
1, 8, 15, 22, 29 10.30am to late afternoon for construction, training, projects and operating  
5, 12, 19, 26 7 to 9pm operating, presentations and licence courses

**West of Scotland ARS (Glasgow)**  
James, 2MOUOS, 2m0uos@gmail.com  
6, 13, 20, 27 Club night

**Wigtownshire ARC**  
Ellis, GMOHPK, www.gm4riv.org  
6, 12, 26 Club night  
19 Radio direction finding by Stan, GM8ZQY

## REGION 2: SCOTLAND NORTH & NORTHERN ISLES

REGIONAL MANAGER: DENNY MORRISON, GM1BAN, RM2@RSGB.ORG.UK

**Aberdeen ARS**  
Fred, GM3ALZ, 01975 651 365  
5 Junk sale  
12 Talk by Norman, GM3WIJ  
19 Members' 10 minute talks  
26 Construction & on the air

## REGION 3: NORTH WEST

REGIONAL MANAGER: KATH WILSON, M1CNY, RM3@RSGB.ORG.UK

**Bolton Wireless Club**  
boltonwireless@gmail.com  
9 Verticals inland and by the sea, MOUFC  
23 Show & tell evening

**Chester & DRS**  
Bruce, MOCVP, 01244 343 825  
3 Bring and tell  
10 Committee meeting  
17 The Work of the RSGB, President John Gould, G3WKL  
24 Rishworth QRP Convention, G6FDK and GONMD

**Chorley & DARS**  
Sammi, M6SXI, M6SXI.sr@gmail.com  
25 Lancashire Day, Tatton Community Centre

**South Manchester R&CC**  
Ron, G3SVW, 01619 693 999  
5 Fire safety in the shack  
12 Manchester Ship Canal in the 1960s, Bob Marsh  
26 Final revision for the Advanced exam  
29 Straight key practice night  
30 Technical forum

**Stockport Radio Society**  
Heather, M6HNS, 07506 904 422  
3, 17 Society meeting  
9, 23 Advanced tutorial  
12 Club net  
24 Skills night from HQ – kit building  
28-29 CQWW CW 48hr contest

**Thornton Cleveleys ARS**  
John, G4FRK, 01253 862 810  
2 Natter night & practical  
9 Trawlers & other hobbies, G3OSR  
16 Table top sale  
23 Linux software  
30 Clocks, G3WBB

## DEADLINES

The deadlines for the next three issues are 19 October, 16 November and 17 December.

### Newton-le-Willows

ARS ran GB1LIM from Lowton Independent Methodist Church as part of Churches & Chapels On The Air. The home brew 2m antenna (ably constructed by Keith G1HIP some 30 years prior) snapped at the base due to old



age and a wooden walking stick (surrendered by Alan, G1EFU) was pressed into action. Conditions weren't the best but operators Chris, MOZLK, Amanda, M6BWW, Dave, MONZR and Alan, G1EFU did a sterling job and managed around 40 contacts. They also took the opportunity to carry out some of the requirements of the Foundation exam for new member Francis. Several members of the public attended, including local Scout Megan, and Tony, G7HOA and his son, Terry, MONTA along with his wife and grandson, and Keith, M3LUE. They would like to thank the church for use of the premises.

## REGION 4: NORTH EAST

REGIONAL MANAGER: NIGEL FERGUSON, GOBPK, RM4@RSGB.ORG.UK

**Angel of the North ARC**  
Nancy, G7UUR, 01914 770 036  
2 Worked All Britain, Geoff, G7GJU

**Denby Dale RC**  
Darran, GOBWB, 07974 423 227  
4 IOTA contest /p operation from Holy Island  
11, 25 Net, 145.575MHz, 7.30pm  
18 GB3HD, G0ISX and G1FYS

**East Cleveland ARC**  
Alistair, G4OLK, 01642 475 671  
2, 16, 30 On the air  
9, 23 Want it or fling it night

**Halifax & DARS**  
Martin, MOGQB, 01422 341 317  
4, 11, 18, 25 Net, 145.400MHz, 7.30pm  
5, 12, 19, 26 Net 145.350MHz, 7pm, in association with West Yorkshire RAFARS

**Hornsea ARC**  
Gordon, G3WOV, 01377 240 573  
4 G3XYF on his trip to Paris  
11 80m Club Sprint SSB  
18 AGM  
25 Committee meeting

**Ripon & DARS**

David, G3UNA, 01423 860 778  
5, 12, 19, 26 Club night

**Sheffield & District WS**

Krystyna, 2E0KSH, 07884 065 375  
4 Radio astronomy, Professor Clive Tadhunter  
18 Mobile apps for radio amateurs,  
Steve, M6SLO

**Sheffield ARC**

David, G6DCT, littlewood20@btinternet.com  
2, 16, 30 Club night  
9 Building a Cobweb antenna,  
Steve M1ERS  
23 Shack night operating MORCU

Scunthorpe Steel ARC entered SSB Field Day in the Restricted section using G4FUH/P. The weather was perfect for this time of the year, but the night was cold so the heater in their comfortable caravan was useful. Kev, M6KNS and Rick, M6XRK, who only received their calls in June, were introduced to contesting and found themselves on the receiving end of a pileup! They handled the situation very well. Conditions on the bands were poor and the All Asia contest didn't help; the 577 QSO total was an improvement on last year making 177,975pts. Nevertheless, an enjoyable weekend.



In October, Captain Jim Lovell (Apollo 13, etc) will be the latest American astronaut or Russian cosmonaut to visit Pontefract. He will give the presentation Apollo 13: A Successful Failure. As usual, Pontefract & District ARS will be operating GB4SL (Space Lectures). After each lecture the astronaut has autographed a QSL card and they are now hung on the walls of the club's shack. In December they will be using GB2TFF (The Final Frontier) to mark the visit of Tim Peake to the ISS.

Last month, there was an error in the news item from Wearside Electronic ARS. The callsign 2E0HPI should have been attributed to Carl. Apologies for the error.

Denby Dale ARS operated GB6YD for Yorkshire day from the National Mining Museum for England. They have operated from here before and visitors are directed to the radio station by the museum staff. A 'paddy train' takes visitors to their location. Atrocious band conditions did not stop the crew as they managed to work over 150 stations including some DX.

**DEADLINES**

The next deadline: 19 October

**REGION 5: WEST MIDLANDS**

REGIONAL MANAGER: MARTYN VINCENT, G3UKV,  
RM5@RSGB.ORG.UK

**Bromsgrove & DARC**

Dave, M6DKT, 07584 025 156  
4, 11, 18, 25 Data night  
6, 13, 20 Club night

**Central Radio Amateur Circle**

Martin, G1TYV, 07948 027 994  
5, 21 Group meeting

**Coventry ARS**

John, G8SEQ, 07958 777 363  
2, 9, 16, 23, 30 Net 8pm 145.375MHz and/  
or 7.16MHz ±QRM  
6 Bangers & mash  
13 Committee forum & GB4CBC Coventry Blitz  
20 Skittles night at Brandon Social Club  
27 Radio workshop & GB4CBC Coventry Blitz

**Dudley and District ARS**

Carl, M0ZCR, m0zcr@live.co.uk  
3 UKAC 2m on the air  
10 On the air & natter night  
17 Club social, open discussion  
24 MORSD on the air

**Gloucester AR&ES**

Anne, 2E1GKY, 01242 699 595 daytime  
4, 5, 11, 12 18, 19, 28, 29 Club net,  
7.30pm starting on 145.500MHz  
2 General operating on HF/VHF from shack  
9 Discussions on general radio subjects  
16 Operating in the shack  
23 Informal meeting  
30 A pair of Wharfedales. Prof D Briggs

**Hereford ARS**

Rod, M0JLA, 01432 356 079  
6 On the air  
14, 19, 21, 28 Intermediate course, G8BPN

**Malvern Hills RAC**

Dave, G4IDF, 01905 351 568  
10 HF antenna design, modelling  
& measurement, Clive, M0XCH

**Midland ARS**

Norman, G8BHE, 07808 078 003  
4, 25 General meeting, shack open and training  
11 Open meeting, ragchew and training classes  
18 Committee meeting with training classes

**Mid-Warwickshire ARS**

Don, G4CYG, 01926 424 465  
10 Video/DVD afternoon  
24 Club net, 145.275MHz

**Nuneaton & District ARC**

Neil, 2E0NE1, info@ndarc.co.uk  
3 2m UKAC  
5, 12, 19, 26 Net, 145.475MHz, 9.30pm  
6 Out & about social  
20 On the air

**Salop ARS**

salopamateurradio@gmail.com  
4, 11, 18, 25 CW net, 4.30pm,  
144.070MHz; Net, 8.30pm, GB3LH  
5 Natter night / committee meeting  
12, 26 Chair's forum / quiz night  
19 Digital repeaters, Matt, G8XYJ

**South Birmingham RS**

Gemma, M6GKG,  
gemmagordon.m6gkg@gmail.com  
2 Final arrangements for the AGM  
3, 10, 17, 24 Coffee morning in the shack,  
11am to 1pm, visitors very welcome  
4 AGM  
5, 12, 19, 26 Training classes, Dave, G8OWL  
9, 16, 23 Work in the shack  
13 Checking club equipment  
27 Planning the Christmas party

**Sutton Coldfield ARS**

Robert, spirit.guide@hotmail.co.uk  
1, 8, 15, 22, 29 Net, 50.135MHz SSB,  
8.30pm  
2, 16, 30 Net, ±145.250MHz, 7.30pm  
9, 23 Club meeting  
10 Net, 70.475MHz FM, 7.30pm

**Telford & DARS**

John, M0JZH, 07824 737 716  
4 Committee meeting and GX3ZME OTA HF  
11 How the Victorians found submarine cable  
faults before the valve, John, G1AWJ  
18 CAT control and radio software part 2  
25 Club winter projects

Nuneaton & DARC is pleased to welcome five newly licensed Foundation licensees through the club's training programme. The club would like to thank John, 2E0AWR and Standish ARS for their kind donation of equipment to the club following the sad decision to disband the Standish club. It has already been put to good use as part of the club's SSB Field Day setup.

**REGION 6: NORTH WALES**

REGIONAL MANAGER: LIZ CABBAN, GWOETU,  
RM6@RSGB.ORG.UK

**Dragon ARC**

Stewart, GW0ETF, 07833 620 733  
2 Surplus sale  
16 AGM

**North Wales RS**

Ceri, 2W0LJC, 2w0ljc@mail.com  
5 Natter night  
12 General meeting  
19 Marconi, David, GW8NZN  
26 Technical topics

**REGION 7: SOUTH WALES**

REGIONAL MANAGER: JIMMY SNEDDON, MW0EQL,  
RM7@RSGB.ORG.UK

**Llanelli ARS**

Craig, MW0MXT, 01269 845 773  
2 Social evening  
8 Remembrance Day SES  
9 On air night & club raffle  
16 Social evening & DVD night  
23 On the air  
30 Junk sale

Barry ARS ran GC4BRS in support of their local Sports & Social Club. It was very well received by the visitors to the Fete and young visitors passed greetings messages. Pirate 'Captain Jack Sparrow' visited the station and caused a sensation amongst the gathered crowd. The young visitors got an extra treat from his visit, one they will remember for a long time.



Risca & DARS have had another two Foundation successes. Andy is now MW6FPL and Gareth is MW6GVR. Congratulations to them both.



## REGION 8: NORTHERN IRELAND

REGIONAL MANAGER: PHILIP HOSEY, MIOMSO,  
RM8@RSGB.ORG.UK

Bangor & DARS entered SSB Field Day and made 260 contacts, mainly on 20 and 40m from Drumawhey Model Railway site. Bobby, MIORYL can be seen notching up a few contacts using the IC-7400. The annual surplus equipment sale will take place on 5 November. Full details in Rallies & Events on page 94.



## REGION 9: LONDON & THAMES VALLEY

REGIONAL MANAGER: LARRY SMITH, G4OXY,  
RM9@RSGB.ORG.UK

### Bracknell ARC

Andy, MOHAK, andy@mohak.co.uk  
4, 18, 25 Net, 145.375MHz, 8pm  
11 Club night

### Burnham Beeches RC

Dave, G4XDU, 01628 625 720  
2 Construction project 2  
16 Broken equipment evening, G8MLK

### Harwell ARS

Malcolm, G8NRP, 01235 524 844  
10 Radio navigation, Mike, G3TSO

### Newbury & DARS

Rob, G4LMW, 01635 862 737  
25 RSGB youth initiative, Michael, GOPOT

### Reading & DARC

Pete, G8FRC, 01189 695 697  
12 Construction contest, Robin, G4IWS  
26 History of RADARC, G4JTR and G4JNU

### Shefford & District ARS

Paul, G1GSN, 07876 685 827  
5 Radio Communication in WW1,  
Dave Thompson

12 Software I have used, MODYR,  
G4YRF and G1JCC  
19 Telecommunications, Ian Rainbow-Wood  
26 Club quiz

### Southgate ARC

K Mendum, G8RPA, g8rpa@arrl.net  
11 Junk sale

### Verulam ARC

Peter, G4HSO, g3v@btinternet.com  
12 Social with GB3VH repeater group,  
7.30pm, Rose and Crown, Sandridge  
17 Digital modes, Mike, G8ASI

Seven candidates passed their Intermediate exam in August. The training and exam was organised by Verulam ARC. The club's lead instructor was Greg, M0PPG (seated in the photo). All the students are looking forward to studying for the Advanced level, planned for November.



## REGION 10: SOUTH & SOUTH EAST

REGIONAL MANAGER: MICHAEL SENIOR, G4EFO,  
RM10@RSGB.ORG.UK

### Brede Steam ARS

Dan, MOHOW, 01424 882 008  
4, 11, 18, 25 At the shack

### Bromley & DARS

Andy, G4WGZ, 01689 878 089  
17 Example rigs and stations

### Coulsdon ATS

Mike, M1CCF, 020 8654 2582  
14 Construction evening, 7MHz transceiver

### Crawley ARC

John, G3VLH, 01342 714 402  
16 Antenna gain and practical measurements,  
Mike, G3LHZ  
25 SUSY Radio, John, G8MNY

### Cray Valley RS

Richard, G7GLW, 07831 715 797  
5 Surplus sale  
19 Meet the members

### Crystal Palace R&EC

Bob, G300U, 01737 552 170  
6 Introduction to electronic components II

### Darenth Valley RS

Mike, G8AXA, 01689 856 935  
11 Social and on the air evening  
25 Arranging meetings for 2016

### Eastbourne E&RC

Peter, g4urt@btinternet.com,  
2 Project evening

### Echelford ARS

John, G4GSC, 01784 451 898  
12 On air/CW practice/bring & buy/natter night  
26 Things that fall from the sky,  
Prof David Southwood

### Hilderstone R&EC

Lyne, hilderstoneclub@gmail.com  
12 AGM  
21 RSGB Train the Trainers session  
26 Arduino, Matt, MOLMK

### Hordean & DARC

Stuart, G0FYX, 02392 472 846  
5 Natter night/social evening  
19 Satellites, Russ, G4SAQ

### Horsham ARC

Adrian, G4LRP, 07714 664 957  
5 Inter club quiz night  
15 Morning fox hunt  
19 Social at The Limeburners, Newbridge

### Itchen Valley ARC

Quintin, M1ENU, 023 8078 7799  
6 Net, 145.525MHz, 8pm  
13 Auction  
27 IC-706 fault finding, Duncan, G3RQF

### Mid-Sussex ARS

Sue, G6PPY, 01273 845 103  
6 Radio night  
20 Radio night and table top sale

### Southdown ARS

Andy, M6GND 01323 486 924  
2 Natter and networking, 7pm  
2, 5, 9, 12, 16, 19, 23, 26 Nets: 9.5am  
145.275MHz FM, 10am 7.035MHz CW  
4 Cafe meet 12.30pm + Hailsham Shack  
7, 14, 21, 28 Nets: 145.275MHz FM,  
mornings; BHS 12.30pm & 2.30pm  
various bands

### Surrey Radio Contact Club

John, G3MCX, 020 8688 3322  
1, 8, 15, 22, 29 Net, 1905kHz, 9.30am  
2 Short talks by members  
6, 13, 20, 27 Net, 145.350MHz, FM 8pm  
16 Chat and fix-it, John, G8MNY

### Sutton & Cheam RS

John, G0BWW, 020 8644 9945  
19 Digital ATV primer, Andy Mace, 2E0IBF

### Wimbledon & DARS

Kim, G6JXA, 07812 735 507  
27 Surplus equipment sale

### Worthing & DARC

Gordon, 2E0GTG, 07801 599 470  
1 Breakfast meeting 9am

Itchen Valley ARC took part in the RSGB Field Day. Luckily the weather changed and they were blessed with sunshine and warm weather. They used wire dipole antennas into a TS-570 plus N1MM+ logging program. Three club members stayed on to operate overnight and found it perishingly cold at 4am on Sunday. Those taking part were Ray, G3HRH, Brian, G0UKB, Liz, M0ACL, Sean, 2E0YEP, Ray, 2E0DHG, Richard, G30TK, Paul, G6MCX, Geoff, G3ROG, Quintin, M1ENU and Dave, M0IKT. Not forgetting club President and catering manager Vic, G3NVB plus visitors during both days. A breakdown of the contacts: 80m/168, 40m/243, 20m/84, 15m/9 and 10m/1.



## DEADLINES

The next deadline: 19 October

**Brede Steam ARS** took part in Churches & Chapels On The Air at St Georges Church, Brede. It was first built before 1006 and has been rebuilt and added to over the years, many times. The centre of the G5RV was installed on the flag pole at the top of the tower and the two ends went out in an inverted V configuration to two nearby trees. Conditions were not terribly good throughout the day. Operation started on 40m and then switched to 20m before heading back to 40m. Even 80m was hard work with contacts mentioning that they had only managed a few CHOTA stations. All in all a good day was had by the members who had time to sit a chat about many things! Thanks to Fr Martin for the use of the Church and the warden for unlocking the door to the tower. Operators were Antony, G4CUS, Dan, M0HOW, Dariusz, MOZPL, Mike, M0EDU, Phil, G3MGQ and Steve, MOSSR.

In August, Colin, G4GBP, Ken, G1NCG and friends operated GBOWWM from Wilton Windmill, near Marlborough. The windmill is fully operational, grinding flour from local sources. The station was



operated from a shepherd's hut that also acts as classroom and cafeteria. They had activated the windmill during Mills on the Air and were invited back by the Trustees to run 'Wireless at the Windmill' as a fun event. A half-sized G5RV and a 20m vertical dipole were hung between two 40' push up masts, one with a 2m collinear atop. Inside the shepherd's hut they used a Yaesu FT-840 with MFJ Tuner for HF and a Yaesu FT-897 for local 2m work. They were joined by Ray, G3HRH with his Discovery and his /P kit for 2m SSB. HF conditions were bleak with only about seven contacts in the log, but with many amateur friends as visitors they were able to have excellent conversations around the tea pot! Conditions improved with about 70 contacts. Most of the HF work was on 40m with a few 20m contacts all UK and European. Ray made 31 contacts on 2m SSB.

**Farnborough & DRS** took part in the RSGB SSB HF contest from a site near Farnham that was followed by the 50<sup>th</sup> anniversary BBQ. The equipment used was an Elecraft K3 running 100W into a mini beam mounted on an ex Army 12m SCAM mast plus a dipole wire antenna. The photo shows Chris, 2E0FCL operating G2DX. That evening 30 members of the club, wives and friends attended the BBQ ably provided by the dedicated team of caterers Bob, Dave and Ann. In August, 34 past and present members together with their wives and partners sat down to a Golden Jubilee carvery luncheon at

Potter's International Hotel. Before the lunch all assembled in the Victoria Ballroom for the mandatory photograph taken by Ben C of So Tangy. Some of the past members came long distances from the West Country, The Midlands and the Isle of Wight to name a few locations. F&DRS was formed in 1965 and each of the past members present were presented with a certificate for supporting the Society in the Jubilee year. The Society has met with few exceptions on the second and fourth Wednesdays for the last 50 years at various venues in the area.



**Capel Battery Contest Group** (operating under Maidstone YMCA ARS) descended on Capel Battery for the last contest outing of the year. The contest site is part of a former WW2 gun battery that has many underground bunkers. Members have been investigating and digging out/restoring these bunkers. Needing to prove the kit rather than get large numbers of QSOs, they used a single set of 13-ele Cushcraft boomers, a 200W solid state PA and a much modified FT-726. They mainly went for Search and Pounce, with short periods of CQ calls. This achieved 90 QSOs, with many at more than 500km. Other equipment had been stripped and rebuilt but will still need bench testing by Ian, 2E0IJH. With thanks to Ian, 2E0IJH, Adam, M0CVN, Trev, G6ALJ, and John, GOXJB (the site owner), this contest was in memory of Russell who died just three days after VHF NFD earlier in the year.



**Medway ARTS** entered SSB Field Day giving experienced operators and newcomers the chance to try contesting. Tents were erected, aerials put together and hoisted aloft. It had been decided to go with a Mosley Tri-bander, a 40m Delta loop

and a dipole. The station got off to a flying start with contacts coming thick and fast. Operators and loggers changed around every hour or so and there was a buzz of excitement about the place. Contacts tailed off during the middle of the night but picked up around 7am. The contest finished with around 600 contacts.

The next project was to operate GB2QLR to celebrate the Queen's longest reign. Band conditions were the worst experienced for some time, starting off poorly and continued going downhill. Very little inter-G operation was possible although short skip was possible, with the most contacted country being Germany. They made just over 500 contacts over the seven day period including Australia, Columbia, Panama, USA and Canada. Thanks to all who took part.



Whilst the new YMCA building in Tovil is under construction, **Maidstone YMCA ARS** continues to meet in an informal arrangement at Lashings Sports Bar, Stone Street, Maidstone on Mondays at 7.30pm. The projected completion date for the New YMCA Building is Mid January, when Maidstone YMCA ARS will be able to resume full activities.



It's been a busy time for **Hilderstone RC**. Congratulations to Patrick Bean and Steve Brett on passing their Foundation exam. They are now working towards the Intermediate licence. The club set up a station at the Manston Spitfire Museum to raise awareness of the work of the Air Ambulance Service using GB1KSS, representing Kent, Surrey and Sussex. They made contacts all over the UK and Europe, including one of the club members holidaying in North Devon. John,

G7OHO has attended the morning assembly at Wellesley House school to explain their possible amateur radio contact with Tim Peake next year and the Space Explorers Club that the Hilderstone members will run. There was a lot of interest from the youngsters and they are keen to learn about life on a Space Station and how they can use amateur radio communications.



Hastings ERC congratulates Martin, MOROK, Josh, MOJDN, Louis, MOLPW, Jamie, MOJBR and Dariusz, MOZPL. Using the Bath Based Advanced Distance Learning scheme, with Phil, G3MGQ as their tutor, these five sat the Advanced exam and passed at their first attempt; one with Distinction and three with Merit, a fantastic achievement. Steve, MOSSR of Brede Steam ARS was exam secretary and lead invigilator, a fine example of inter-club cooperation.



Kent Weald RC has been busy. GB1HA was set up at the Headcorn Aerodromes military two day show, then GB2KAA for the annual sponsorship radio event in support of Kent Air Ambulance. One of their aims was to work fifty different counties, which they achieved including a on the Shetland Islands. Operators for these events were MOZAA, G4IMP, 2E0DJF and G0UXG.



## REGION 11: SOUTH WEST & CHANNEL ISLANDS

REGIONAL MANAGER: PAM HELLIWELL, G7SME,  
RM11@RSGB.ORG.UK

### Appledore & DARC

Alan, M6CCH, 01237 422 833  
16 MXOLDG operations from Lundy Island,  
John, G3JKL

### Bristol RSGB Group

Robin, G3TKF, robin@g3tkf.co.uk  
30 Building a \$50 satellite and putting it in  
orbit, Stuart, GW7HPW

### Burnham on Sea ARC

Brian, G4RGY, 01278 683 645  
4, 18 Club night

### Cornish RAC

Steve, G7VOH, 01209 844 939  
4 Committee meeting  
5 Main club meeting  
19 Club evening

### Exeter ARS

Nick, M0NRJ, 01363 775 756  
3 GB3EX repeater net, 7.45pm  
9 WSPR for beginners, Nick, M0NRJ  
10, 17, 24 Net, 145.575MHz, 7.45pm  
23 Bring in something interesting night

### Exmouth Amateur Radio Club

Mike, G1GZG, 01395 274 172  
4 Auction night  
18 Quiz night, Tony, M0THJ

### North Bristol ARC

Mat, G7FBD, g7fbd@gb3bs.co.uk  
1, 8, 15, 22, 29 Net, 7pm on GB3BS  
6 The SPE 2K amp, Ross, GW3NWS  
13, 20 Operating, training, relax and chat  
27 Theodolites, Andy, G4OEP

### Plymouth Radio Club

David, 2E0DTC, d.beck123@btinternet.com  
10 Natter night and rally jobs  
15 Plymouth Radio Rally

### Riviera ARC

rivieraarc@gmail.com  
4, 11, 18, 25 Net, 145.425MHz, 8pm  
5, 19 Club night

### Saltash & DARC

Mark, M0WMB, 01752 215 546  
5 AGM  
19 HF operating

### South Bristol ARC

Andrew, G7KNA, 07838 695 471  
19 Antenna analyser, Henryk, M0HTB

### Thornbury & South Gloucestershire ARC

tsgarc@gmail.com  
4 WAB/CPR  
6, 13, 20, 27 Net, starting on 145.5MHz, 8pm  
11, 25 On the air night  
18 Project night

### Torbay ARS

Dave, G6FSP, g6fsp@tars.org.uk  
6, 20 Club night  
13 Club night with business meeting  
27 Totnes Image Bank

### Weston Super Mare RS

Paul, G3SDH, g3sdh@btinternet.com  
2, 9, 23, 30 Natter night  
16 RSGB publicity officer Heather Parsons

### Yeovil ARC

Rodney Edwards, M0RGE, 01935 825 791  
5 Early VHF equipment, G3MYM  
12 Morse practice, G3MYM  
19 Recent IOTA activations, Keith, G3TTC  
26 Committee meeting and on the air evening

Riviera ARC ran a special event commemorating the 75th anniversary of the Battle of Britain from the former site of RAF Haldon. They used all the HF bands as well as 2m and 70cm. The photo shows (l-r) G4XKH, G7AHP, 2E0JNP, G6TEQ with M6HFD taking the picture.



A successful Advanced exam saw Andrew, 2E0POB get his new callsign MOHXG. He's really proud of his pass and looks forward to enjoying his new Full licence.

Thornbury & South Glos ARC saw an increase in membership with six new members. Most are now the process of completing their Foundation training with two having recently passed; Peter, M6KVA and Sue, M6LNN pictured here after their indicative passes with Rex, G4REA. Project nights are expanding to include specific topics, particularly for new members. The club was also busy this month with JOTA planning and is set to work with new group of youngsters.



Plymouth Radio Club visited the studios of Plymouth's only commercial radio station based in the city. Radio Plymouth commenced broadcasting on 28 February 2010 and has well over 41,000 listeners. The group from the radio club enjoyed a guided tour of the studio complex with Dave Gould, presenter of the weekday breakfast programme, taking a hard look behind the scenes of a 24/7 working radio station.



GB3IVE went on the air from St Ives Methodist Church, Liskeard for Churches & Chapels On The Air. Mark, MOWMB and 2E0TUH put up two Racal 8m masts with a homemade three band wire dipole made by MOZCP. For 80m they had to connect two clips to add on extra wire. On Friday Mark used his own callsign and worked 51 stations. Together with MOBHG, MOZCP and MOCCA they operated throughout the day with several visitors calling in. During the CHOTA event they worked 108 stations. MOZCP and MOWMB kept going until 0030UTC and worked many more stations. Mark would like to thank all who attended and helped in anyway and to the friends at the chapel for opening the doors. Finally thanks to Mark's wife who kept them in food and drinks throughout the event.

## REGION 12: EAST & EAST ANGLIA

REGIONAL MANAGER: STEVE THOMAS, M1ACB,  
RM12@RSGB.ORG.UK

### Cambridge & DARC

David, M0ZEB, 01353 778 093

13 Radio surveys in the 21st Century,  
Jenny, G0VQH

27 British Antarctic Survey, Chris Hindley

### Chelmsford ARS

secretary@g0mwt.org.uk

3 5MHz NVIS propagation, Marcus, G0IJZ

16 Skills workshop at Danbury Village Hall

### Colchester Radio Amateurs

Stefan M0XLB, 07771 616 676

19 CW training and talk on WW1  
radio comms

### Felixstowe & DARS

Paul, G4YQC, pjw@btinternet.com

9 Members' evening

23 Junk sale

Malc Williams, G0EGA,

malc.williams@g0ega.co.uk

Starts a new GB2CW Morse class broadcast  
on 14 and 15 November and continues every  
subsequent weekend until 13 December.

Transmissions are on 145.625MHz from  
8pm local time and cover Norwich, Ipswich,  
Lowestoft, Great Yarmouth and surrounding  
areas.

### Norfolk ARC

Chris, G0DWV, 01603 898 678

4 Building a multi-band trap vertical,  
Steve, G0KYA

11 Informal, Morse

25 Informal, Bright Sparks, Morse

### Norfolk Coast ARS

Steve, G3PND,

info@norfolkcoastamateurs.co.uk

5 Visit to the RAF Radar Museum

12 Digital modes

19 Satellite communication

26 RDF

### South Essex ARS

Terry, G1FBW, 07986 070 040

10 AGM

### Thames ARG

Mark, M0IEO, 07940 579 116

14-14 Foundation course and exam

27 Annual dinner

### Thurrock Acorns ARC

Gordon, 2E0ELI, acorns@taarc.co.uk

28 Essex 2m FM afternoon, GX4HKO on air  
from 1-4pm

A record-breaking 74 people attended the September Chelmsford ARS Skills Night in Danbury. On display was a collection of Raspberry



Pi hardware projects from Peter, G0DZB and a drone complete with live head-up display goggles from Dean, M6NSX. Also on offer was handset programming from Charlie M0PZT. The interesting item of the month was an umbrella-based discone antenna from Andy, G7TKK. The club was made most welcome to events at the Sandford Mill Museum with its specific themes for each Sunday. Over the weeks the club put on a variety of events often ties into the theme. Peter, M0PSD, Chris, 2E0CUU, Charlie, M0PZT and Alan, G0RTH ran GX0MWT in the 2MT Marconi Hut with HF operating and a chance to use the HRD logging program or the web based QRZ and eQSL systems. A beacon was hidden near the coffee shop and the challenge was to track it down. This proved to be a little tricky to find with all the metalwork nearby, but not impossible. Colin, G0TRM had an extensive Morse Key demonstration that seemed to attract many interested people young and old. Murray, G6JYB brought along the club's SDR equipment and displayed a large waterfall of the radio spectrum. HDSR Software was in use giving a particularly colourful and detailed display. Charlie, M0PZT had his Morse Mouse program running and as ever was a big hit with the younger visitors to the station. Peter, M0ZBU ran a Morse Key and punched tape machine demonstration.

In August, South Essex ARS operated GB2BB to commemorate 70 years since RAF Bradwell Bay was decommissioned. As part of the event, 121 poppies were released into the River Blackwater – one for each of the 121 airmen who made the ultimate sacrifice whilst serving at RAF Bradwell Bay. Many contacts were made on 2m and HF, with the familiar sound of the Morse key attracting many ex-service personnel. The 9th field day of the year took place Canvey's Island Yacht Club. For the first time, they club made



use of DMR, following a talk on the subject of digital voice earlier in the month by Vince, G8YPK and Mark, 2E0RMT. New recruit Bob, M6RMU brought along two home-made antennas to test out on the club's analyser, proving that home-made antennas can be just as good as more expensive shop-bought antennas.

For International Air Ambulance Week, a group of Essex Hams operated GB2EAA in support of the Essex Air Ambulance. The station was at Earls Colne Airfield, home to the Essex Air Ambulance. The team was able to work several other Air Ambulance stations over the weekend, including those in Cornwall, Yorkshire, Scotland and Northern Ireland. Thanks to Essex & Herts Air Ambulance Trust and Anglian Flight Centres for allowing Essex Ham to support IAAW for Region 12. A small team took part in the RSGB SSB Field Day from Shoebury Beach. This was the first time that the group has tried any contesting. During the contest, a period of radio silence was held in memory of local amateur Clive, G1EUC, who passed away in early September and will be greatly missed.



Essex RAYNET has had a busy few weeks covering community events in Essex including the Clacton Airshow and two cycle races: Farleigh Hospice Cycle For Life and St Helena Hospice, as well as the Harlow 10 run. The next event sees the team providing radio comms for Saltmarsh 75, which is a challenging two-day walk along 75 miles of the Essex coast. Mark, 2E0RMT from Essex RAYNET was featured in the TX Factor Show 9, recorded at a recent Essex Ham field day, www.txfactor.co.uk

A quiet night on GB3DA (the Danbury repeater run by the Essex Repeater Group) was recently livened up by the appearance of Kelly, M6KFA. She presents an online technology radio show and, during a brief pause in recording, put out a call on the local repeater. With the help of social media, an impromptu net of 12 people was rolling. Perhaps that's how to get more life on 2m – encourage our YLs to take to the air!

Southend and District ARS held their annual field day from the Ekco Sports and Social Ground. The family fun day was in aid of Fair Havens Hospice. Using GHBOFH, band conditions weren't great but the club made some good contacts on both HF and VHF. Pictured here is David, 2EOTRF, Mick, G6WCI, Eddie, G1OHN, Laurie GOJAO and Bernie, GOENN.



The September meeting of **Thurrock Acorns ARC** saw members updated on the latest developments with the Raspberry Pi computer, and an inspirational talk on how to get constructing and programming with this low-priced computer. The talk was delivered by Peter, GODZB and included a look at the various models, a display of peripherals, plus a demonstration of software showing the lifecycle of virtual cells. The photo shows Peter, GODZB courtesy of Ricky, M6DII.



The **Braintree & DARS Summer Camp** was hosted by John, M5AJB in his large garden. This annual event is a chance for members to camp, use club equipment, aerials that may be larger than their own, test equipment and experiment

as they want. The weather was appalling with very heavy rain and windy conditions, however members enjoyed it with aerials being tested and good contacts made especially on 18MHz that opened up at the right time. The sodden ground obviously helped but not with the camping side of things. Understanding Propagation was the subject of the first September meeting. Using an RSGB film download, members enjoyed the combined film/slide/narrative combination that was followed by a lively discussion. Later in the month, Tony GOIAG gave a talk on Signalling Lamps from the development of Aldis type lamps through the use of the heliograph with examples of signalling lamps from WW2 to present on display. Tony also had a selection from his field telephone collection, including a Fullerphone.



John, a member of the Thurrock Acorn ARC was keen to transmit from Lyme Regis as part of the WAB scheme. To date, his activities

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have included setting up stations on the top of mountains in Scotland, in lighthouses and on small islands/rocks off the UK coast. However his latest challenge at Humble Point, west of Lyme Regis did not go as planned. John and David set out to reach Humble Point at a time when the tide allowed. They knew their time on the rock was limited so a careful watch was kept. At the agreed time they closed the station and set off. It was not an easy journey and they realised they were going to need help as the tide was coming in too fast. David contacted the RNLI at Lyme Regis and it was not long before the welcome sight of the lifeboat appeared. Despite this set back, John is already planning his next trip to another WAB square. The picture shows (l-r) John Allan and David Dolling in the RNLI building after being rescued. Picture by Richard Horobin, RNLI.



**Colchester RA** recently organised a field day using GX3CO. The idea was to give new licensees or anyone not familiar with HF the opportunity to setup and use an HF station. Fifteen members, including two M6 and five 2E0, all had the opportunity to use the FT-1000 or a FT-847. Peter, GODZB was /P with his KX3 running QRP. Jonathan, GODVJ explained the function of every control on the front panel of the F1000, very impressive. Ian, 2E0GDP had his first QSO on 20m and Roy, G8TOI had a QSO with Japan (JA8) on 17m under difficult QRM conditions. A very successful day particularly as the weather was kind with constant sunshine.



**Norfolk Coast ARS** participated in SSB Field Day although it needed a last minute change of venue to East Runton as the usual field became waterlogged. The antenna was a W5GI supported by a 30' mast and a tree and performed very well on all bands. The photo shows Peter, G4NTN on the microphone with Reg, 2E0WBW and Alan, 2E0DMI.



**Bittern DX Group** discovered the August holiday weekend did not turn out as well as hoped when they set up camp at Gressenhall Farm and Workhouse Museum to activate GB5GFW for their Village at War weekend. It poured with rain all weekend! But there was a good turnout of rather damp club members, who were kept busy chatting to members of the public and the weekend's re-enactors about the many aspects of amateur radio. They took a slightly different approach to this event and beside the usual HF event station, they included some working demonstrations of different technologies with connections to our hobby. An old MP3 player was loaded with wartime music and then used to drive a modulated LED transmitter and receiver, which in its turn drove the loudspeaker of a mid-1950s radio. Young people in particular were fascinated by this and took great delight in seeing how blocking the light with their hand stopped the music playing! A live demonstration of the reception and decoding of NOAA weather satellites seemed to attract a lot of interest from adults, who, after looking at the received pictures, immediately understood why it was they were paddling inside the awning of the caravan! They also ran a Raspberry Pi data station and used another Pi to run a compilation of films from YouTube relevant to the weekend, together with some great photos of radios and their operators in wartime and the 50's on display along with several items of vintage equipment. Setup crew and operators for the weekend were Alec, G3YOA, Linda, GOAJJ, Richard, G6VOV, Balders, MOHET, Adam, 2E0OWX, Thomas, 2E0TKZ, Parsley, 2E0MPM, Donna, M6HDM and Julian MONUX.



## REGION 13: EAST MIDLANDS

REGIONAL MANAGER: STEVE BODEN, G4XCK,  
RM13@RSGB.ORG.UK

### Grantham ARC

Kevin, G6SSN, 07793 142 483  
10 Start of intermediate course

### Loughborough & DARC

Chris, G1ETZ, 01509 504 319  
3 Baluns, Andrew, G7SEG  
10 Early communication receivers (up to the HRO), Ian, G8SNF  
17 Latest TxFactor video  
24 Practical evening

### Melton Mowbray ARS

Brian, M0YBX, 07772 659 622  
20 The Smith Chart

### RAF Waddington ARC

Bob, G3VCA, 07971 166 250  
2, 9, 16, 23, 30 Net, 145.325MHz 20.00  
12 Committee meeting

### Welland Valley ARS

Peter D Rivers, G4XEX, 01858 432 105,  
g4xex@fsmail.net  
2 Net, 145.275MHz  
16 Operating night on 40m SSB

Continuing success at **Grantham ARC**, the two latest Foundation passes are John, M6FRR and Ian, M6SUK with instructor Kevin, G6SSN in the centre. They will be starting on the Intermediate course in November. Anyone interested in joining the course should email gmOrci@ntlworld.com



Members of **Spalding & DARS** recently enjoyed an excellent presentation on Astro Photography by Chas, M0XCR. He shared his passion on the subject, demonstrating the equipment used and results possible even with modest equipment. Many pictures showed outstanding clarity not visible to the naked eye. All went away with information and advice on how to use the many software packages available. The photo shows Graham, G8NWC (L) and Chas, M0XCR.

