

RADIO SOCIETY  
OF GREAT BRITAINTHE NATIONAL SOCIETY WHICH  
REPRESENTS UK RADIO AMATEURSFounded in 1913 incorporated 1926.  
Limited by guarantee  
Member society of the  
International Amateur Radio UnionPatron: HRH Prince Philip,  
Duke of Edinburgh, KG, KTMembership is open to all those with an active interest in  
radio experimentation and communication as a hobby.  
Applications for membership should be made to the  
Subscriptions Department from which full details of Society  
services may also be obtained.General Manager  
**Peter Kirby, FCMI, MISM, GOTWW**  
Honorary Company Secretary:  
**Rupert Thorogood, G3KKT**  
Honorary Treasurer:  
**Dr R Dingle, G0OCB**BOARD OF THE SOCIETY  
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**P Brooks, G4NZQ**  
**L Butterfields, G0CIB**  
**D Field, G3XTT**  
**B Reay, G8OSN**  
**J Smith, M10AEX**  
**J Stevenson, G0EJQ**  
**A Vinters, G0WFG**  
**D V Wilson, M00BW**

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**G Hunter, GM3ULP - Region 1**  
**D Morrison, GM1BAN - Region 2**  
**K A Wilson, M1CNY - Region 3**  
**H Scrivens, G0UGE - Region 4**  
**T Bailey, M0KMB - Region 5**  
**M Harper, MW1MDH - Region 6**  
**G Price, GW3MPP - Region 7**  
**P Lowrie, M15JK - Region 8**  
**A Johnston, G8ROG - Region 9**  
**G Keegan, G6DGK - Region 10**  
**P Helliwell, G7SME - Region 11**  
**P Brooks, G4NZQ - Region 12**  
**J Stevenson, G0EJQ - Region 13**Details of the Society's volunteer officers can be found in  
the RSGB Yearbook 2008

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[www.rsgb.org/membersonly](http://www.rsgb.org/membersonly) Use your callsign in lower  
case as the user name, and your membership number (see  
RadCom address label) as the password.

# What are the biggest challenges to amateur radio from EMC?

A few weeks ago I made a trip down into Hampshire for a meeting with two members who are concerned about the increasing problem of spectrum pollution. We spoke long and earnestly about interference and the way in which many licensees have chosen QRT rather than tackle the challenge of QRM, which is evident on the HF bands.

As we began to wrap up the meeting, I was asked what I thought were the biggest challenges that members face in relation to the EMC. My reply was technology based – firstly Switched Mode Power Supplies (SMPSU), which are appearing in everything from children's toys to electric sewing machines, and then PLT as a generic technology, which seems to have been sent to plague us, along with the plethora of other man-made interference generators. On my way back to Hertfordshire I began to think back over the meeting and to the answer that I had given to the question – and I realised that I had got it wrong!

We have Standards, which if properly and vigorously implemented would make our bands much quieter. Perhaps the biggest challenge that we have is in fact 'enforcement' or lack thereof.

The EMC Committee divides its time between trying to solving members' interference problems, working on the issue of maintaining a quiet radio spectrum through its work on National and International Standards Committees and identifying sources of interfering emissions.

We are able, quite often, to identify that the offending source is, say, a sewing machine, or a newly installed boiler and are able to suggest that the local Trading Standards Office should be informed and, should they choose to take no action, that the case is elevated to Ofcom. Equally, we have been quite effective in ensuring that the Standards for products such as generic PLT devices reflect our use of the HF spectrum, for example by notching of their broad-spectrum signals in the internationally assigned amateur bands. The work continues to stop home-PLT devices from causing interference to the SW broadcast bands. We are particularly concerned about the use of these devices for the distribution of video around the home (such as the BT Vision product) since this mode requires wide bandwidth and almost continuous transmission of data.

We have identified and researched the causes of interference from computer SMPSU and informed the authority Ofcom that products are entering the market chain that are not compliant with the generic emissions Standard and "should not be placed on the market".

However, the missing link – and biggest challenge that we face is enforcement.

It would appear that the Trading Standards

Organisation is grossly under-funded and they have no teeth. We often, rightly, feel that Ofcom do not want to perform their Statutory Duty by bending to political and commercial pressure that might lead to legal action being taken against them. Finally DBERR (DTI of old), have the same fear, added to which they want to be seen to be applying open market policy dictates dreamt up by Brussels.

**SHOULD WE FEEL DEFEATED? CERTAINLY NOT!** It is through the continuous work by the Society and its volunteer members that we have a valuable input to the case for Electromagnetic Compatibility. In last month's and again in this month's RadCom, there is a two part article describing the enormously valuable work undertaken by Richard Marshall, G3SBA which will ensure that TV receivers in the future radiate less QRM. Richard's work has been going on behind the scenes for a very long time.

That is just one example, I can think of many more. Hilary Claytonsmith, G4JKS, was responsible for the ETSI Code of Practice relating to PLT interference. This was the culmination of many years of very devoted work, for which she has earned tremendous respect in the Standards field. Robin Page-Jones, G3JWI and Fred Robins, G3GVM, worked tirelessly on broadband emissions from DSL and PLT. Many others beaver away in the background on behalf of all radio amateurs, ensuring that our frequency bands are 'relatively' free from man-made interference. I shudder to think what it might be like without the vigorous defence from these volunteers.

The EMC team of Committee Members and Advisors is ready to help with your individual interference problems and links/telephone numbers are given on the EMC website and in the RSGB Year Book. The website also has advisory leaflets on EMC Issues, which may be downloaded and distributed freely.

Members enthusiastically read Dr David Lauder's EMC column in RadCom. It is able to reflect current trends and issues. David always needs new input; so if you have something to share, please send it along to him.

**John Pink, G8MM**  
Chair, EMC Committee

ETSI. European Telecommunications Standards Institute  
[www.etsi.org](http://www.etsi.org) – Technical Report ETSI TR 102 552 V0.0.6 (2007-05)  
Technical Help for Members:  
[emc.committee@rsgb.org.uk](mailto:emc.committee@rsgb.org.uk)  
David Lauder: [emc.radcom@rsgb.org.uk](mailto:emc.radcom@rsgb.org.uk)  
Ofcom. Tel: 020 7981 3000. Register complaints with their Help Desk and obtain a log entry number. Trading Standards. Find their telephone number and e-mail address in your local telephone directory.

## Board and Regional Elections 2008

It is formally announced that the following vacancies will arise in the Board and Regional Council for the 2008 elections.

### The Board (3 vacancies)

Lesley Butterfield, GOCIB who currently holds the Technical Portfolio comes to the end of his first 3 year term, he is eligible to stand for a second 3 year term.

Brian Reay, G8OSN who currently holds the Amateur Radio Development Portfolio comes to the end of his first 3 year term, he is eligible to stand for a second 3 year term.

There are currently two co-opted members of the Board. Jeff Smith, M10AEX who currently holds the Technical (Environment) Portfolio and Anthony Vinters, GOWFG who holds the Education and Training Portfolio. These appointments end on the 31 December 2008. Both are eligible to stand in the election.

If you are interested in a Portfolio position and serving as a Board member you must have been a corporate member of the RSGB for at least two years and need to obtain nominations and supporting signatures from 10 or more corporate members of the Society in good standing.

Members may stand for election without nominating any particular portfolio.

Nationally elected Board members all hold Portfolio responsibilities, they also serve as Directors of The Radio Society of Great Britain (Company by guarantee) and their duties and responsibilities comply with the Companies Act 2006. Full briefing on these responsibilities will be given on request for election papers. Full training and briefing will be given to successful candidates on taking up their appointments.

### The Regional Council (7 vacancies)

There will be vacancies in the following regions

Region 1 – Scotland South and the Western Isles

Region 3 – North West (Kath Wilson, M1CNY, currently co-opted)

Region 5 – West Midlands (Trevor Bailey, MOKMB, currently co-opted)

Region 7 – South Wales

Region 10 – South and South East

Region 11 – South West & Channel Isles

Region 13 – East Midlands

All present incumbents come to the end of their terms of office on the 31 December 2008, and are eligible to stand again. However, candidates are welcome for all vacant positions regardless of whether or not an incumbent is standing for re-election.

Members of the Society who wish to stand for the Regional Council and serve as a regional manager must reside in the relevant region and be prepared to play an active part in the region and as a member of the Regional Council. This commitment includes attending a minimum of 6 Regional Council meetings per annum.

You must have been a corporate member of the RSGB for at least two years and need to obtain the nominations and supporting signatures of at least five but no more than 10, corporate members in good standing and residing in the region in which the candidate is standing.

Those members standing for election will be presented to the membership in the November 2008 edition of RadCom. The election count will take place on Wednesday 3 December 2008. Successful candidates in both the Board and Regional elections will take up their appointments on 1 January 2009, and will serve a three year term of office.

Requests for election papers should be forwarded to Michelina Gramson, PA to the General Manager. Telephone 01234 832 700 or e-mail GM.Dept@rsgb.org.uk.

## Train the Trainers

An RSGB Train the Trainers session, hosted by the Norfolk Amateur Radio Club, will take place on Saturday 6 September near Norwich. The Train the Trainers scheme helps tutors enhance the standard of their Foundation, Intermediate and Advanced licence courses. Alan Betts, G0HIQ and Brian Reay, G8OSN will be presenting the all day course, which is free of charge to instructors. For more information and to register, contact David Palmer, G7URP via e-mail at radio@dcpmicro.com or on 01953 457322.

Demand is expected to be high, so it is important to register as soon as possible.

For details of further Train the Trainers sessions, see the calendar at [www.g8osn.org.uk](http://www.g8osn.org.uk).

## Lack of EMC Enforcement

The RSGB recently took the unprecedented step to request a meeting with the Department for Business, Enterprise and Regulatory Reform (DEBRR) (formerly the DTI). This meeting was felt necessary because of the perceived poor level of EMC Regulations enforcement by Ofcom and the lack of action by Ofcom on entry and sales of non-compliant items in the UK.

The RSGB are also concerned that Ofcom are not taking seriously the increase in non-compliant computer power supplies and reports that Ofcom are attempting to divest themselves of the EMC enforcement duties.

Some eighteen months ago, the RSGB approached Ofcom with concerns regarding a non-compliant Homeplug device. At the time, Ofcom are thought to have referred the complaint to the German Regulator, although the RSGB have not received any follow up information on this complaint despite repeated requests to the administration for information.

Another serious worry for the RSGB is the increase of non-compliant computer equipment although carrying the CE mark. The RSGB team outlined the problem and told DEBRR that on examination it had been found that these units had provision for suppression components that had not been fitted by the manufacturer. Research had shown that the parts had been fitted for compliance testing but omitted on production units. DEBRR felt that this particular issue was a matter for Trading Standards and not Ofcom.

The RSGB pointed out that Ofcom is charged with the protection of the Spectrum under the terms of the Communications Act, in reply DEBRR recognised this to be the case but informed that whilst having a duty of care under the Act, Ofcom are free to explore alternative ways of meeting their obligations, any change would need the support of a parliamentary select committee and amending legislation. DEBRR would not comment further.

One of the reasons for the meeting was for the RSGB to establish the line of accountability of Ofcom. DEBRR stated that, as a statutory regulator Ofcom was accountable to Parliament, although some powers were reserved to the Secretary of State. DEBRR has a general supervisory role in EMC and RTTE matters and is the 'Enforcement Authority of Last Resort'.

The RSGB will continue to push both Ofcom and DEBRR hard to ensure that Ofcom carry out their duty of care with regards to interference to the radio spectrum caused by non compliant equipment.



## Memorandum Fails

Due to irreconcilable differences between the RSGB Board and the Trustees of RAEN (The Network) over the direction and future management of RAYNET, the Society has decided to end the Memorandum of Understanding put in place in April 2004. This was designed to try to bring closer together all RAYNET factions for the greater good of RAYNET and the image of amateur radio to the user services and the general public. However, a number of instances had come to light where The Network had operated outside of the agreement and, at the Board meeting held on 12 July, it was decided to replace the MoU with a Position Statement, which is available on the RSGB website. During a meeting held on 24 July between representatives of the Society and RAEN this document was rejected outright by RAEN.

The RSGB had put forward to RAEN a number of joint ventures such as a common RAYNET Handbook, common ID cards for all RAYNET groups and a common insurance arrangement. All of these measures were designed to assist members and to strengthen RAYNET in the eyes of the user services. Sadly, despite initial agreement, offers of cooperation on these projects was withdrawn by the Management Board of The Network.

Earlier this year, the RSGB sent out a questionnaire to all affiliated clubs and societies seeking information regarding Public Service (including but not limited to RAYNET) activity and capabilities. This was to RSGB clubs and Societies only, yet the Network maintain that it should have been vetted by them in the first instance and that they were the 'larger market force' in the UK as far as the amateur radio emergency services were concerned. The RSGB take the view that it is up to them alone to decide what should be sent to their members.

The RSGB had proposed six monthly meetings between the RAEN and RSGB, but this was also rejected by the Network. The RSGB remain open to further discussions as and when the RAEN decide that this is in the interests of the movement.

Meanwhile, the Director Public Services has been tasked with producing an RSGB RAYNET ID card, seeking improvement to the RSGB RAYNET insurance and producing an operations manual. All RSGB groups are urged to continue with the excellent arrangements for cooperation that are in place 'on the ground' between all groups.

The RSGB will continue to represent all UK radio amateurs, affiliated clubs and groups and its members in the unbiased way it has done so for the past 95 years. It will continue to recognise the importance of RAYNET both in the UK and across the world and will endeavour to meet the needs of all RAYNET operators of whatever persuasion.

## School Radio Club



At the end of term, Silcoates School ARC bid farewell to headmaster Paul Spillane who has been a keen supporter of the club since its inception in 2005. Since the club was formed, 20 pupils have gained their licenses and the present members have been on a roller coaster ride of success, contacting over 6000 stations at break times and after school.

Mr Spillane has been a champion of the cause and has supported the pupils, often attending contests. The RSGB are particularly grateful to him for allowing the school to be used for various committee meetings, events and also as an exam centre.

The photograph shows, from left to right, (back row) Mr Nigel Wears, MONJW, James Thornhill, David Tattersall, Johnny Short, Chris Gillings, Sam Irvine, Sarah Jackson, Mr Paul Spillane (Headmaster). (Front row) James Shepherd, Daniel McGraw, Max Winton-Anderson, Luke Schofield, Will Lancaster, Greg Whitley, Stephen Molloy.

## Fund Raising

This year's British Wireless for the Blind Fund's (BWBF) annual 48-hour fund raising event for radio amateurs starts on 20 September with a brand new category for the under-18s. The competition invites radio amateurs to make as many sponsored contacts with other amateurs across the globe as possible. Money raised will help the BWBF, a national charity, which provides specially adapted radio equipment for blind and partially sighted people in need.

This year they're launching a new category: a young person's prize for special achievement, aimed at the under 18s. The award will go to the young person who has made an outstanding contribution to the Transmission event, for example, in fundraising; helping others; or making a high number of contacts.

The BWBF has just launched its latest state-of-the-art radio CD cassette player Concerto designed to the charity's specification. [www.blind.org.uk](http://www.blind.org.uk) or tel: 01622 754757.

## Kempton Radio Show

The Kempton Radio and Electronics Show will be held on 28 September at Kempton Racecourse, Sunbury on Thames, Surrey TW16 5AQ. As well as the usual attractions, some of the highlights will be RSGB 'Bytesize Lectures' covering latest technology in amateur radio and electronics, an RSGB bookstall with the launch of the new RSGB Year Book and a superb panoramic restaurant for a memorable lunch. [www.radiofairs.co.uk](http://www.radiofairs.co.uk).

## McMichael Winner

The McMichael Rally & Boot fair in Reading was once again a tremendous success. Over 600 people attended the rally this year and enjoyed brilliant sunshine! The boot fair was full of interesting items with many buyers wondering off clutching their bargains.

Andrew Birch, MOYGB, won the Yaesu FT-450AT donated by Yaesu UK & ML&S, worth £600.



(l-r). Min Standen, G0JMS, Rally Chairman, Andrew Birch, MOYGB, and Martin Lynch, G4HKS.

## G5RP Trophy

The G5RP Trophy is an annual award to encourage newcomers to HF DXing. However, the award is not limited to youngsters or the newly-licensed: the HF DX bug can bite at any age or after many years of experience on other bands. If you are an established HF DXer and want to recommend someone to be awarded the G5RP Trophy for 2008, now is the time to send in your nomination. Your nominee should be an up-and-coming HF DXer who has made rapid progress in the last year and has some real achievements to show, eg a good total of new countries worked or some serious HF DXpedition activity.

This prestigious award will be presented this year at the RSGB HFC on 10 – 12 October. Please send your nominations to John Gould, G3WKL, QTHR, or by e-mail to [g3wkl@btinternet.com](mailto:g3wkl@btinternet.com) to arrive no later than Friday 12th September.

## News in Brief

- Due to the success of an earlier foundation course, the Radio Society of Harrow will be running a Foundation course starting on Wednesday 10 September. For further information, please contact Ray Snow e-mail: [rayasnow@aol.com](mailto:rayasnow@aol.com) or visit the website [www.g3efx.org.uk](http://www.g3efx.org.uk).

- It is planned that the Orkney Wireless Museum amateur radio station, GB20WM, will be in operation from Kiln Corner, Kirkwall between 4 and 10 September during the 18th Orkney International Science Festival. Operation will be primarily on HF SSB, probably weekdays and Sunday afternoons between 2.30 and 4.30pm and Saturday between 10am and 12.30pm.

- Softstuff have a new free website, [www.scalc.co.uk](http://www.scalc.co.uk), that is integrated with Google maps and allows sunrise and sunset times to be calculated for almost anywhere on planet Earth.

- Torbay has a 6m repeater, GB3TQ, operating on Channel R50-4, 50.750MHz/51.250MHz. A CTCSS tone of 77Hz is required to open the repeater. The antenna is vertically polarised and it is located at one of the highest points in the bay, Locator IO80FK. Any comments to either G3VOF or GOAZX e-mails and addresses on [QRZ.COM](http://QRZ.COM).

- After a period at lower power level, Leicestershire repeater GB3UM has returned to full power (14dBW). The TV repeater GB3GV has returned to full service after repair of both the receiver and transmitter aeriels. There is a problem with radar interference, which has only partially been solved by moving the receive aerial around the mast to provide some shielding. Reports on both GV and UM will be welcomed via the LRG website [www.leicestershirerepeatergroup.com](http://www.leicestershirerepeatergroup.com).

- The President of Coventry ARS, Arthur Noakes, G2FTK, sadly passed away on 5 July, aged 91. Arthur was the last surviving founder member (1932) of the Society. He leaves two sons and two grand children. In the second world war, Arthur was a secret listener and had only recently dictated his experiences to the Society. A most likeable character who the society will sadly miss.

- There is a new Yahoo group for the Knight Kit T50 transmitter. The group is available to anyone interested in this and other old radios <http://groups.yahoo.com/group/knightT50group>.

- The Scottish Open Day at Jaycee Electronics, Glenrothes, Fife, is being held on Saturday 20 September, opening at 10am. And as it is the 35th anniversary celebration of Waters and Stanton plc, it will be even bigger this year. Details at [www.wsplc.com](http://www.wsplc.com).

- HamInfoBar is a free browser toolbar for amateurs and SWLs. There are over 7,000 installations in 92 countries. [www.haminfo.com](http://www.haminfo.com).

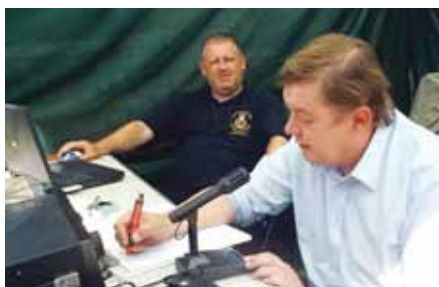
## Exams at HFC

The RSGB are offering those wishing to obtain a UK Amateur Radio Licence the opportunity to complete one, or more, of the required examinations over the weekend of the HFC, 10 to 12 October.

Candidates must book their examinations prior to the event and must provide evidence they have completed the required practical assessments, although limited facilities to complete assessments at the HFC can be arranged. The contact for further information and for booking examinations is John James, [john.james@rsgb.org.uk](mailto:john.james@rsgb.org.uk), or via the RSGB HQ switchboard (01235 434343).

## GB0CR

On 13 July, King's Lynn ARC held a Field Day/Family Picnic Day in the grounds of the Castle in the village of Castle Rising some 4 –5 miles north east of King's Lynn, using the callsign GB0CR, in conjunction with CASHOTA (Castles and Stately Homes on the Air). Quite a bit of interest was shown by visitors to the Castle and club members were able to show and explain something about amateur radio. Despite the fact that the event clashed with the IARU competition in the morning, some reasonable contacts were made into Europe. The antenna in use was a Windom attached to the top of the Castle flagpole (65ft) down to a fence located about halfway up the side of the very considerable earthworks surrounding the Castle. King's Lynn Amateur Radio Club is most grateful to Lord Howard of Rising for kindly allowing them the use of the Castle and grounds for their Field Day, also to castle staff members, Maureen and Norman, for all their assistance in connection with this event.



Peter, G0IJU operating and Andy, G1KLP logging.

## GB1TDS

On 5 July, Maltby & DARS put on a special event station celebrating two events. Not only was it the Tickhill Gala, but 2008 is the 100th anniversary of scouting in Doncaster. So, the radio amateurs and the 13th Tickhill Scouts joined forces for the day under the callsign GB1TDS - Tickhill Danum Scouts. The station was open for around six hours, despite monsoon conditions for several minutes in mid afternoon, and made contacts locally and into Europe. All the scouts participating were presented with a certificate for each contact made or message passed. Several of those not already licensed have expressed an interest in taking the Foundation course.



Shane (centre) being shown the ropes by (l-r) Micheal, M6MAC and James, M3PDK. Photo Les Fuller, M3PDU

## Thanks



The Cambridgeshire Repeater Group and Icom UK have formed a close working relationship over the past twelve months. The CRG were one of the first groups in the UK to commission a D-Star repeater – GB7PI at Barkway, Hertfordshire.

In April, the social side of the CRG mounted a DXpedition to the Isle of Mull for which Icom provided a large amount of equipment, including an IC-756 Pro III for the base station; an IC-7000 for data modes and an IC-703 for QRP/SOTA and portable IOTA operations.

As a gesture of thanks, CRG members Daryl Burchell, G0ANV, Rob Warner, G1SAA and Gavin Nesbitt, M1BXF presented a framed QSL card from the DXpedition to Icom UK Dealer Manager John Turner at an Icom D-Star dinner held at HamRadio Friedrichshafen in June.

You can find out more at [www.cambridgerepeaters.net](http://www.cambridgerepeaters.net), [www.camb-hams.com](http://www.camb-hams.com) and [www.icomuk.co.uk](http://www.icomuk.co.uk).

## Club Disagrees

A letter in *The Times* of 1 July said “..... emergency call launched 100 years ago, has died with Morse used to broadcast it”.

The Taunton and District ARC does not agree. Morse code has enjoyed a revival in the club this year. Seven members (who having never participated in CW NFD) have enjoyed learning Morse so that they felt confident enough to take part in the CW NFD.. They enjoyed the experience so much that not only are the classes continuing, but discussions are afoot to arrange a regular CW net.

Through the dedicated work of Roy, MOGFO, and the initiative of Rob, GOWSC and Kelvin, MOAID, a small group was formed.



The CW class, Roy, MOGFO, (seated) and l-r, Dave, G0UOG, Derek, G0PGL, Rob, G0WSC, Jeremy, G4JZL, Kelvin, MOAID. Missing is the seventh operator Tony, M3VHA.

## Lottery Funding

The National Lottery Awards For All Scheme have awarded Worthing and District ARC over £9000 to enable the club to replace equipment and provide VHF and UHF D-Star Repeater systems for Worthing.

Celebrating its 60th anniversary in September, the club recently received a legacy from its former president Jim Hicks, G4XRU. Together with the lottery funding, the project to install the repeater system in Worthing is taking shape. It is hoped that Ofcom will allow the club to use the callsign GB7JH for one of the stations.

The funding will also be used to replace the club's current radio equipment with new state of the art transceivers, antennas, microphones and sundry equipment.



## Secret Wireless Lectures



Recently John Alexander, G7CGK gave Verulam ARC members and guests a lecture on mechanical cipher machines, including the famous WWII German Enigma. John brought eight machines along to the club and demonstrated the different coding methods and explained the origins of the machines which were used in various parts of the world for some sixty years from the 1920s.

Verulam ARC continues the WWII theme on 16 September when they look forward to welcoming Stan Ames, G4OAV to present a lecture entitled 'Secret Wireless Operations in St Albans during WW2'.

Members and non-members will be very welcome at the Verulam ARC club in St Albans, there will not be a charge for this event. If possible, please let them know in advance if you intend to come. Contact Norman Fisher on 07773 628912 or via the website at [www.radioclubs.net/verulam](http://www.radioclubs.net/verulam).

## Fox Hunt



On a recent club evening, the weather was kind to Braintree & District ARS when they held their 2m (DF) Foxhunt. Members met at the clubhouse to

sign in and four teams were formed.

So that all members had suitable antennas, Melvin, GOEMK, had very kindly constructed a number of three element beam antennas made from wood and steel tape measures (see picture). Melvin also took the part of the 'Fox'.

Teams assembled their equipment, maps, compasses – one member even had a small portable tripod to rotate his antenna on. The teams were made up of Ray, M3TPU and his family, Michael, M0GKW with Owen, M30IL, Edwin, GOLPO and grandson Callun and John, M5AJB with GOBYH and GODCR.

The 'Fox' had parked up in a small back road in the village of Panfield. Whilst only a couple of miles as the crow flies from the club house, it was surrounded by numerous small lanes and other village streets. At one stage two teams passed one another twice, going in opposite directions on different local lanes. The first to find the 'Fox' was Ray and his team, followed by Michael and, finally in the last few minutes, John, M5AJB and his team.

## Cubs on the Air



In June, the cub scouts of 8th Macclesfield (St Pauls) and 1st Hurdsfield established amateur radio contact with each other. This was facilitated by members of the Macclesfield & District Radio Society, who provided and set up the equipment at both sites. Both cub packs have their meetings on Wednesday evenings, so when it transpired that 8th Macclesfield were having an amateur radio demonstration, it was decided to include a live link-up with the youngsters at 1st Hurdsfield. Some of the newer cubs also qualified for their Communicator's Badge by passing a message over amateur radio.

The event was wrapped up with the respective Akela of each cub pack – John from 1st Hurdsfield and Doug of 8th Macclesfield passing a greetings message to each other.

## Helping Hand

John King from Leeds recently asked Mexborough & DARS for their help to get him through both the Foundation and Intermediate Exams. He had always wanted to take the amateur radio exams but, working in marine electronics, he was constantly on call to ships all over the world and not able to attend a club to sit the courses.

Arrangements were made for John to come to the club and complete the practicals and they worked out when he would be in England so he could take the exams on the same day. He had no problems with the exams and passed both within two hours. He is hoping to pass the Advanced before the end of the year but he will have to schedule it around his very busy work load.



John with his pass slips and Ian Sanderson, MOILS, one of the tutors of M&DARS.

## VHF Field Day



Darent Valley Radio Club took part in the recent VHF Field Day. Whilst the objective was to make contact with other low power stations (around 100 were achieved) the members had great fun and comradeship with plenty of burgers and other goodies. They feel that this is what amateur radio is all about and they are looking to expand their activities to involve younger members of the community.

## Foundation Success



The latest Scunthorpe Steel ARC Foundation course was a success. The highest mark obtained was 100%, the lowest 84%. Tutors Stan, G3RRL and Ken, G4GZB make no charge for their services and travel many miles during the course. They teach all three levels and these successes bring the total for the year to 20.

## Young Buildathon

The first Wirral Schools' Amateur Radio Club (GX8WSR) Buildathon took place during July at Greenleas Primary school. Inspired by an article on a 'buildathon' by Steve Hartley, G0FUW in Sprat, the organiser, Neil Jones, MONBJ, secured a Community Initiative grant from the New Brighton and Wallasey Ward forum of Wirral to enable a collaborative project between children and older citizens (licensed radio amateurs). Twenty of Tim Walford's Knapp RX kits were purchased and assorted bits and pieces including soldering stations for the children to use. A disappointing response to advertising for radio amateurs in the area to assist was experienced, but it was decided to start the Buildathon with Neil Jones, MONBJ, Alec Wood, G8WHR, and Bill Cross, GOELZ. Nine children were signed up and each was tutored through the soldering and construction techniques to successfully produce a working receiver! An led torch kit from Kitronik was used to start the soldering skills.

Another 11 children will be continuing the Buildathon in the Autumn term.

The children were pleased to have acquired a new skill and made something themselves that worked. They will be able to come to the GX8WSR club in future to compare listening notes!



Alec Wood, G8WHR, and Amy building her receiver.

## News in Brief

- Volunteers from the Chelmsford ARS will be starting an Advanced Amateur Radio training course from 28 August until 4 December (except 16 October) every Thursday evening between 7 and 9pm at the Danbury Village Hall. The exam will be on 8 December. The total cost of £70 covers room hire, Advance Exam manual and the RSGB Exam Fee. You need to have passed the Intermediate exam before doing the Advanced. Contact Clive, G1EUC tel: 01245 224577.

- Reading and District Amateur Radio Club are holding a Foundation licence course starting October 3 at Woodford Park, Woodley.
  - Friday 3rd October 7pm to 10pm (3 hrs)
  - Saturday 4th October 9am to 5pm (8hrs)
  - Friday 10th October 7pm to 10pm (3hrs)
  - Saturday 11th October 9am to 12 noon (3hrs) total 15 hrs tuition.
 Contact Harry Hogg g3ngx@radarc.org.

**1 Scotland South & Western Isles**

Regional Rep: Gordon Hunter,  
GM3ULP, gm3ulp@rsgb.org.uk

No listings received this month

**2 Scotland North & Northern Isles**

Regional Rep: Denny Morrison,  
GM1BAN, gm1ban@rsgb.org.uk

**ABERDEEN ARS**

Lewis, GM4AJR, 01224 575 663,  
www.aars.freereserve.co.uk

4 Junk Sale

**3 North West**

Regional Rep: Kath Wilson,  
M1CNY, m1cny@rsgb.org.uk

**SOUTH MANCHESTER R & CC**

Ron, G3SWW, 0161 969 3999

- 1 Monthly Technical Forum
- 5 check our website
- 12 a talk on "Circuit Simulation with P-Spice" by Dave, G4UGM
- 19 Dave's PC Clinic, with Dave G4UGM
- 26 A talk, "An Icelandic Expedition" by Chris, G3UAU
- 29 is the monthly Technical Forum

**THORNTON CLEVELYS ARS**

Jack, G4BFH,  
jack.duddington@btinternet.com

- 1 Show And Tell
- 8 Trains, home and away (Video)
- Dave G8KBH
- 15 Construction. Mick G4EZM
- 22 Test Equipment. Peter G4JCG
- 29 Show and Tell

**WIRRAL & DARC**

Tom, G4BKF, 07050 291 850

- 3 Natter Night- the Black Horse, Heswall
- 10 Pre-owned Bargains evening
- 14 N.Wales DF Challenge
- 17 Natter Night-The Hoylake Lights, Hoylake
- 24 D-Star Update M1EEV

**4 North East**

Regional Rep: Harold Scrivens,  
G0UGE, g0uge@rsgb.org.uk

**HORNSEA ARC**

Sue, G6UQA, 01482 668 041,  
www.hornseararc.co.uk

- 3 SSB Prep
- 10 Foxhunt
- 17 Rally Prep
- 21 Hornsea Radio Rally
- 24 CW Contest & Activity Night

**NORTH WAKEFIELD RC**

Richard, MORBG, 07976 220 126,  
m0rbg@talktalk.net

- 4 Presentation and demonstration of transmitter functions
- 11 Club Night
- 18 On Air Night, come along and operate the club station
- 25 Club night

**PONTEFRAC T DARS**

07594 596 040, www.pdars.com  
info@pontefractradioclub.org,

- 2 Using the HF beam and the rotator
- 6 Foundation Course 3 of 4 12h00 until 15h30
- 9 Switch mode power supplies
- 13 Foundation Course 4 of 4 12h00 until 15h30

- 16 Web site workshop
- 23 Launch of the CW Challenge: Chinese Whispers 1 of 8 - 19h00 until 19h30 Reg, G4KMW followed by 13.8V power in the car construction project
- 27 Intermediate Course 1 of 6 12h00 until 15h00
- 30 Chinese Whispers 2 of 8 19h00 until 19h30 Reg, G4KMW

**SHEFFIELD ARC**

Trevor, MOTWS

- 1 VHF/UHF operating
- 8 Talk G3VCQ IOTA
- 15 Video evening
- 22 Quiz
- 29 Foxhunt

**TYNEMOUTH RADIO CLUB**

Tony, G8YFA, mail@gOnwm.com,  
www.gOnwm.com

- 5 Build It Month (GOEDK/2EOIGB)
- 12 Operating Night and Morse Classes
- 18 Build It Month (GOEDK/2EOIGB)
- 26 Operating Night and Morse Classes

**5 West Midlands**

Regional Rep:  
Trevor Bailey, M0KMB,  
m0kmb@trevorbarsgb.org.uk

**COVENTRY ARS**

John, G8SEQ, 02476 273 190

- 5 HELIKITE AERIALS - Roger Stafford, G4ROJ
- 6 DEMONSTRATION of HELIKITE AERIAL - G4 ROJ - Caludon Park (provisional)
- 12 COMMITTEE FORUM
- 19 Final Round G2FDC 2m DF Trophy
- 26 RADIO WORKSHOP VHF/UHF Operating 6m, 4m, satellites

**GLOUCESTER AR & ES**

Anne, 2E1GKY, 01452 548478,  
daytime, www.g4aym.org.uk

- 1 No Meeting
- 8 AGM
- 15 VHF Operating
- 22 Informal Meeting
- 29 HF Operating/Workshop

**MID-WARWICKSHIRE ARS**

Bernard, M1AUK, 01926 420 913

- 9 Home Brew Evening
- 23 Computer Topics - Dave G8UIO

**SANDWELL ARC**

Dave, G4JSR, 0121 552 1820,  
david.stocker@tesco.net

- 1 Slow Scan TV demonstration
- 8 Natter Night
- 15 Contest Practice for B.W.B.F. weekend
- 20 Transmission 2008 contest using the callsign GB2 BWF
- 22 Contest Round Up
- 29 Talk on B.PSK On Air Demonstration

**STOURBRIDGE & DARS**

John, M1EJG, 01562 700 513,  
www.g6oi.org.uk

- 1 Social/On Air Night
- 8 Open Shack Night
- 15 Main Meeting TBA
- 22 Open Shack Night
- 29 Open Shack Night

**TAMWORTH ARS**

Colin Marks, G4ZPJ, 01827 700 893,  
colin.marks2@ntlworld.com

- 4 Natter night
- 9 construction / fault finding
- 18 club shack on air G8TRS
- 25 Talk (tba)

**TELFORD & DARS**

Mike, G3JKX, 01952 299 677,  
mjstreetg3jxx@blueyonder.co.uk

- 3 Open House/On the air/Committee
- 9 Hamfest Committee meeting
- 10 Hamfest Organisation meeting
- 17 Friedrichshaven report
- 24 Hamfest preparations
- 28 Telford Hamfest @ Egninity Museum

**WYTHALL RC**

Chris, G0EYO, 07710 412 819,  
g0eyo@blueyonder.co.uk,  
www.wythallradioclub.co.uk

- 2 Echo Link Repeaters by Vaughan
- MOVRR & Club 2m Contest
- 9 Committee Meeting
- 12 Three day special event station GB0HSF from Hanbury Steam Fair
- 16 Intermediate Course week 1
- 23 Intermediate Course week 2
- 30 Intermediate Course week 3

**6 North Wales**

Regional Rep:  
Mark Harper, MW1MDH,  
mw1mdh@rsgb.org.uk

**CONWY VALLEY ARC**

Wynne, GW6PMC, 01745 855 068

- 3 Past, Present and the Future of Wylfa Nuclear Power Station by Nigel Ackroyd & Kay Wilkinson

**7 South Wales**

Regional Rep: Gareth Price,  
GW3MPP, gw3mpp@rsgb.org.uk

**BLACKWOOD & DARS**

MWOLAO@aol.com

- 19 The early years of the Society with films of previous events by Eric, GW8LJJ and Mike, GW4JKV.

**CARMARTHEN ARS**

Les, GW8PSJ, 01239 811 922

- 2 Club BBQ at Llansteffan
- 16 Silent Auction

**NEWPORT ARS**

Paul, GW7RIB, 01633 665 289  
nars@gw4ezw.fsnet.co.uk

- 26 Ross Clare (GW3NWS) will be giving a talk about building a 1929 two valve radio - an O-V-1

**8 Northern Ireland**

Regional Rep: Peter Lowrie,  
M15JYK, mi5jyk@rsgb.org.uk

No listings received this month

**9 London and Thames Valley**

Regional Rep: Alison Johnston,  
G8ROG, g8rog@rsgb.org.uk

**AYLESBURY VALE RS**

Roger, G3MEH, 01442 826 651,  
roger@g3meh.com

- 10 General meeting and OTA

**BROMLEY & DARS**

www.bdars.org, bdars@g0tlk.me.uk

- 21 Foundation course at Victory Social Club, Kechill Gardens

**COULSDON ATS**

Andy, G8JAC, g8jac@btinternet.com

- 8 GB3NS - our local repeater by Denis GOOLX

**CRYSTAL PALACE R & EC**

Bob, G300U, 01737 552 170

- 5 RAYNET, Phil Williams G6AQB

**EDGWARE & DISTRICT RADIO SOCIETY**

John G3SJE, 0208 204 1034

- 23, 24, 26, 30 Operating GX3ASR for the Edgware Activity Period, rules at g3asr.thersgb.net

**HOME COUNTIES ATV CLUB**

Dave, M0SAT, m0sat@gb3hv.com,  
www.gb3hv.com

- 23 Microwave antennas workshop

**NEWBURY & DARS**

Richard, G3ZGC, 01635 46241,  
richard.jolliffe@vodafone.com

- 24 Software Defined Radio Ray G4FON

**READING & DARC**

Pete, G8FRC, 01189 695 697

- 11 Talk, "My latest DX", by John Warburton, G4IRN
- 25 Talk "Keys and Telegraphs" by Gerald Beaver G4CLD

**SHEFFORD & DARS**

David, G8UOD, 01234 742 757

- 11 Welcome back
- 18 Mobile DF hunt
- 25 60th Anniversary Celebrations

**STEVENAGE & DARS**

John McCutcheon, 01462 459254,  
www.sadars.org

- 2 VHF Operating - 144MHz UK Activity Contest
- 6 RSGB SSB HF Field Day Weekend
- 9 50MHz UK Activity Contest.
- 16 Technical Talk
- 23 VHF Operating - 50MHz UK Activity Contest.
- 30 Talk

**SURREY RADIO CONTACT CLUB**

Ray, G4FFY, 020 8644 7589

- 1 Aftermath

**SUTTON & CHEAM RS**

John, G0BWW, 020 8644 9945,  
info@scrs.org.uk

- 18 '3B7C DXpedition' - by Justin Snow G4TSH

**VERULAM RC**

Ralph, G1BSZ, 01923 265572,  
g1bsz@aol.com

- 11 Great Erg Race Winchmore Hill Cricket Club
- 16 Clandestine Radio Activity around St Albans a talk by Stan Ames G4OAV
- 27 CQWW RTTY Contest

**WEY VALLEY ARG**

www.weyvalleyarg.org.uk

- 5 Radio does Travel - John Warburton, G4IRN
- 19 Introduction to Smith Charts - Bob Bagwell, G4HZV

**WIMBLEDON & DARS**

Jim, M0CON, 020 8874 7456,  
www.gx3wim.org.uk

- 12 VHF Event
- 26 On Air and Construction

**10 South & South East**

Regional Rep: Gavin Keegan,  
G6DGK, g6dgk@rsgb.org.uk

**BISHOP AUCKLAND RAC**

Mark, G0GFG, 01388 745353,  
www.barac.m0php.net/

- 7 BOB Weekend GB2NAM
- 7 Raynet Mcmillian Bike Ride, Hamsterley

- 13 RAF Leeming Family Day
- 13 CHOTA
- 13 Tees Cottage Open Weekend
- 20 St Helen's Brownies Communications Day
- 27 Railways on the Air Weekend at Eden Vale Railway

**BREDE STEAM ARS**

Steve, 0142 720815, m0nuc@aol.com  
6 Operating from the bunker

**CHIPPENHAM DARC**

Ian, G0GRI, 01225 846 698  
evenings and weekends,  
www.g3vre.org.uk

- 2 Foundation Training with John Totten, G7LWF
- 9 BBQ at club shack, BYO food, 7pm start. Family welcome.
- 16 Foundation Training with Ian Carter, G0GRI
- 21 144MHz Direction Finding event start 11am at club shack finish at 1pm, then rendezvous for refreshments.
- 23 FOUNDATION PRACTICALS and Course Recap.
- 27 10:30 - 12:45 Foundation catch up for any missed subjects or practical's with G0GRI, G8TTI, G7LWF and MOXBI
- 30 FOUNDATION EXAMINATION 20:30 to 21:15.

**CRAWLEY ARC**

John, G3VLH, 01342 714 402

- 14 Microwave Round Table. Venue CARC Club House Hut 18 Tilgate Forest Crawley. Contact Derek Atter G3GRO on 01293 520424 for further information. Doors open 09.30 hrs. Light refreshments, coffee, tea etc will be available during the day.
- 24 APRS presentation by Olof Lundberg G0CKV. Doors open 19.30 hrs. Visitors welcome. Coffee, Tea available.

**HASTINGS E & RC**

Gordon, 01424 431 909,  
gordon@gsweet.fsnet.co.uk  
www.herc.uk.net

- 24 To be announced

**HORNDEAN & DARC**

Stuart, G0FYX, 023 9247 2846,  
www.hdarc.co.uk

- 2 Natter night/social evening
- 23 Club members 10-minute talks

**HORSHAM ARC**

www.harc.org.uk

- 4 Photo Quiz - Adrian Boyd, G4LRP
- 18 Social - The Queens Head, West Chiltonton

**ITCHEN VALLEY ARC**

Quintin, M1ENU 023 8078799,  
qg2@soton.ac.uk

- 12 Merchant Navy Communications Graham G3XSD
- 26 Members Evening - PCB layout and circuit diagnostics lead - John G8IOK

**MID-SUSSEX ARS**

Sue, G6YPY, 01273 845 103,  
sue@figgerit.co.uk

- 5 SWR and all that by Peter G3LDO
- 12 Radio Night
- 19 Radio night and Table Top Sale
- 26 TBA

**SOUTHDOWN ARS**

John, G3DQY, 01424 424 319,  
vaughdqy@aol.com

- 1 John Bishop on Public Transport
- 3 Operating at Hailsham

**SWINDON & DARC**

Den, M0ACM, 01793 822705

- 4 Preparation for HF SSB Field Day

- 25 Talk "A Journey through the Solar System" - Charles G0TLI

**TROWBRIDGE & DARC**

Ian, G0GRI, 01225 864 698, E/W

- 3 More on Software Defined Radio with G0BBL and M0PUB
- 17 Natter night

**WORTHING & DARC**

Roy, G4GPX, 01903 753 893

- 3 Planning for SSB Field Day
- 10 Club 60th anniversary Dinner
- 17 Construction contest
- 24 GX3WOR on the air evening

**South West Channel Islands**

Regional Re am elli ell  
ME g sme rsgb org uk

**APPLEDORE & DARC**

Brian Jewell, M0BRB, 01237 473251,  
brian.jewell@ic24.net

- 15 K3 Transceiver by G4XHK and G4NCU

**CORNISH RADIO AMATEUR CLUB**

Ian, 01872 561 058

- 1 Committee Meeting
- 3 The Electric Guitar by Bob, G4EIK
- 8 Computer section meeting

**EXETER ARS**

Paul, 2E0EXR, pchesh-29@hotmail.co.uk

- 8 John G8XQQ talk on the new GB3EW repeater
- 22 Natter Night

**GUERNSEY ARS**

Phil, GU0SUP

- 19 Surface mount devices, and how to solder them by Phil GU0SUP

**PLYMOUTH RC**

Frank, frank@foxonezero.fsnet.co.uk

- 21 Club Rally

**POLDHU ARC**

Keith, G0WYS, 01326 574 441

- 9 Talk. 'Early transistors' by Les, G7THT.

**SALTASH & DARC**

Brian, M0BHG, 01752 844 321

- 4 Constructors Evening.

**SOUTH BRISTOL ARC**

Len, G4RZY, 01275 834 282

- 3 25th Anniversary Dinner
- 10 Photographs from Members Archives
- 17 Old Domestic Radios - Working!
- 24 On the Air Evening

**TAUNTON & DARC**

William, G3WNI, 01823 666 234,  
g3wni@btinternet.com

- 3 Prepare for NFD SSB
- 6 Operating in NFD SSB Weekend
- 10 Debrief NFD and Morse Class
- 17 Talk by Jeremy Adams G4JZL on his FT817 + Z11QRP set-up Leading to QRP Discussion.
- 24 Operating Club Station. Morse Class.

**THORNBURY & SOUTH GLOUCESTERSHIRE ARC**

Tony, G0WMB, tonytsgarc@beeb.net

- 3 Mobile Geocoaching
- 10 On the Air Night
- 17 Video Night
- 24 Where Am I? The Global Positioning System by Peter Jackson

**TORBAY ARS**

Dave, G6FSP, g6fsp@tars.org.uk

- 5 Natter Night
- 12 Operating Night
- 19 Natter Night
- 26 Members Antenna systems

**YEOVIL ARC**

Gary, 2E0BFJ, g.swain@tesc.net

- 4 HR24 Receiver G4PDG
- 11 Direction finding (DF) GODFL & M5YLO
- 18 Home brew HF mobile antennas G4DCH
- 25 Committee meeting & station on the air

**2 East and East nglia**

Regional Re hilli Brooks  
g n rsgb org uk

**BITTERN DX GROUP**

Keith, G0GFQ, 01263 588 506,  
keith@g0gfq.com,  
www.bittern-dxers.org.uk

- 25 Transmission debrief

**BRAINTREE & DARS**

John, M5AJB, 01787 460 947

- 1 G3TGB, Video of American events 1992
- 5 Scarecrow Weekend
- 15 British Wireless for the Blind planning & rig clinic

**CAMBRIDGE & DARC**

David Leary, G8JKV on 01223 355254

- 5 TBA
- 6, 7 144MHz Trophy Contest
- 12 Informal Evening
- 19 Video Evening
- 26 Informal Evening
- 27 Annual Dinner

**CHELMSFORD ARS**

Martyn, G1EFL, 01245 469 008

- 2 The Enigma Coding Machine by Phil Dean MODHM
- 28 Sandford Mill - CARS Operating Science & Discovery Day at 10am to 5pm

**COLCHESTER RADIO AMATEURS**

David Chambers, M1AMI,  
01206 870989, www.g3co.ccom.co.uk

- TBC Annual General Meeting, Colchester Institute

**DOVER RC**

Brian, G4SAU, g4sau@darco.org.uk

- 3 Back to the School - Operating and Natter Night
- 10 Talk and demo on PSK31
- 17 DVD - Digital Voice for Amateur Radio - HF: AOR, WinDRM, DRMDV, FDMDV, DSTAR, P-25
- 24 DSTAR Update and Live Demo - Matt M1CMN and Declan MOTMX

**FELIXSTOWE & DARS**

Paul, G4YQC, paul.whiting@bt.com

- 1 Holiday season club net 145.400MHz 20:00
- 15 EWSR Post Mortem
- 29 "The Great Russian Eclipse, 2008" - Paul G4YQC

**GORLESTON ARS**

David, G3OEP, QTHR, 01493 662 323

- 27 Lunch time meeting at the Short Blue Public House

**HAVERING & DARC**

Dave, 2E0EBV, 07956 594 514

- 3 Informal Evening
- 10 Special call GB4HRC evening
- 17 Informal Evening
- 24 Event Pictures / slideshow for 2008

**KING'S LYNN ARC**

Ray, G3RSV, ral-g3rsv@supanet.com,  
www.klarc.org.uk

- 4 Club night & Club Committee Meeting. 2mtr club net hosted by Huntingdon Club 145.350
- 11 Guest Speaker, Steve Drury, G6ALU, subject MKARS-80 Transceiver Kit.
- 18 Guest Speaker, Bob Whelan, subject The Radio Communications Foundation.



- 25 Club night and 2m club net hosted by KLARC (G1XYZ) 145.350

**LEISTON ARC**

Dave, G4HUP, 01473 737 717,  
g4hup@btinternet.com

- 2 Talk by Alan Melia G3NYK

**NORFOLK ARC**

Mark Taylor, G0LJG, 01362 691099,  
narc@g0lji.co.uk

- 3 Softrock Update TBC
- 6 SSB Field Day Weekend
- 10 EME Roy G3ZIG
- 17 Gadgets & Gizmo's hosted by David G7URP
- 24 Bright Sparks / Informal

**SOUTH ESSEX ARS**

southessex.ars@btinternet.com,  
www.southessex.ars.btinternet.co.uk

- 10 Brian G7IIO talk on how to make a cheap Vertical Antenna for 2m.

**East Midlands**

Regional Re im te enson  
OE g0e rsgb org uk

**EAGLE RG**

Terry, G0SWS, 01507 478590

- 9 Games Night: ERG versus The Eagle Hotel - Eagle Hotel, Mablethorpe. 20.00hrs

**LINCOLN SHORT-WAVE CLUB**

John, G1TSL, 01526 323 153

- 6 SSB Field Day Weekend
- 10 Hamfest Briefing
- 13 Hamfest Set-up (12.00)
- 14 Lincoln Hamfest (10.00am)

**LOUGHBOROUGH & DARC**

Chris, G1ETZ, 01509 504 319

- 2 Bobs Cameras by Bob Brown
- 9 Capacitor Testing by Andrew G7SEG
- 16 Pye Equipment Evening - Bring an example along.
- 23 Skittles Evening. The Griffin Inn, Swithland
- 30 Practical Evening

**SOUTH NORMANTON ALFRETON & DARC**

A J Highton, 2E1 GWO, 01773 783658

- 1 Bee Keeping - a talk with a sting in its tail, by Ray Vasper G3VIY
- 8 Night On The Air
- 15 Junk Sale
- 22 Making Printed Circuit Boards by Mike Jeffs MORMJ
- 29 Beginning of Winter Construction Project - Mike Jeffs MORMJ

**WELLAND VALLEY AMATEUR RADIO SOCIETY**

Simon G8PAN, 07977 266643,  
swd@phasor-design.uk.com,  
www.wvars.com

- 15 Talk by David G1IVF the 2007 California fires and the use of echo link in the USA



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