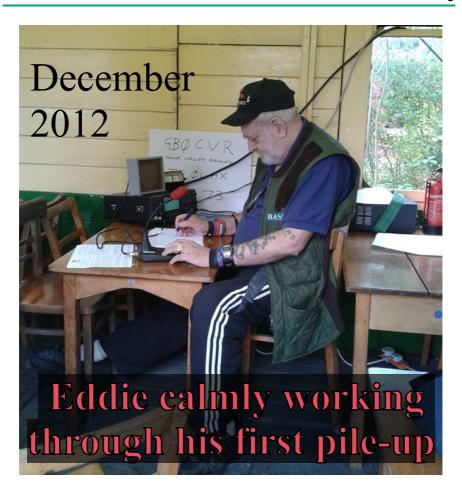


# Monthly Communication of the Braintree and District Amateur Radio Society



# **More Copy Needed**

Due to a lack of input from members I have had to reduce the size of this month's Issue. I hope we can return to 16 or even 20 page editions in the next few months.

# Junk Sale - Report.

## Tony GØIAG

Monday November 5th, saw another annual junk sale take place. Perhaps we should not call it junk as there was some good stuff for auction (how about recycling unwanted equipment). Melvin, GØEMK, did sterling work as auctioneer, with Dave, GØDEC explaining, and John, M5AJB, collecting the money for Edwin



The event is always fun, but manages to raise a decent amount for the club; this year, donated items

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raised £64.90, and commission sales raised £10.27. A total of £75.17, for the club. I know that some members had said they did not want to buy any "junk", and Jim GØDCR was one of them, but he bought more than anyone. Well done Jim, and thanks to all who took part. We look forward to next year's event.

## **Next Month**

Latest News from the RSGB

For Sale and Wanted

### Plus the usual ...

Events, Rallies, Contests, etc.

# **Know the Band Plans - XI**

## **RSGB**

## 144MHz (2m)

144 000-144 110 Mhz 500Hz CW (including EME CW) 144.050 MHz CW calling 144.100 MHz Random MS CW calling (Note 1)

144.110-144.150 500Hz CW & **MGM** 

> EME MGM activity (Note 7) 144.138 MHz PSK31 COA

144.150-144.180 2700Hz CW. MGM and SSB

> 144.175 MHz Microwave talk-back

144.180-144.360 2700Hz CWand SSB

> 144.195-144.205 MHz Random MS SSB

144.200 MHz Random MS SSB calling frequency

144.250 MHz GB2RS news broadcast and slow Morse

144.260 MHz USB. (Note 10) 144.300 MHz SSB calling

144.360-144.399 2700Hz CW. MGM, SSB

144.370 MHz MGM calling frequency

144.400-144.490 Propagation Beacons only

144.490-144.500 144.4905 MHz +/- 500Hz WSPR beacons & beacon guard band

144.500-144.794 20 kHz AM 144.500 MHz SSTV calling 144.525 ATV SSB Talk-back 144.600 MHz RTTY calling & working (FSK)

144.6125 MHz UK DV calling (Note 9)

144.625-144.675 MHz Note 10 144.700 MHz FAX calling

144.750 MHz ATV Talk-back 144 775-144 794 MHz Note 10

144.794-144.990 12 kHzMGM Packet radio

144.800-144.9875 MHz

DM (including unattended)

144.800 MHz Unconnected nets - APRS, UiView etc

144.825 MHz IVG

144.8375 MHz IVG

144.850 MHz AX25 BBS user access

144.8625 MHz Available for nodes and BBSs on application

144.8750 MHz TCP/IP user access

144.8875 MHz AX25 - priority for DX Cluster access

144 9000 MHz AX25 DX Cluster access

144.9250 MHz TCP/IP user access

144.9500 MHz AX25 BBS user access

144.9750 MHz High speed 25 kHz channel (Note 11)





144.990-145.1935 12 kHzFM/DV RV48 - RV63 Repeater input exclusive (Notes 2 & 5)

145.200 12 kHz FM/DV Space communications (e.g. I.S.S.) -Earth-to-Space 145.2000 MHz (Note s4 & 10)

145.2000 MHz (Note \$4 & 10) 145.200-145.5935 12 kHz FM/DV V16-V48 FM/DV simplex (Notes 3, 5 & 6) 145.2125 MHz IVG 145.2250 MHz See Note 10 145.2375 MHz FM IVG (IARU common channel) 145.2500 MHz Used for slow

Morse transmissions
145.2875 MHz FM IVG
(IARU common channel)
145.3000 MHz RTTY local

145.3375 MHz FM IVG (IARU common channel)

145.5000 MHz Mobile calling

145.5250 MHz Used for GB2RS news broadcast.

145.5500 MHz Used for rally/exhibition talk-in

145.5750 MHz (Note 11)

145.5935-145.7935 12 kHz FM/DV RV48 - RV63

Repeater output (Note 2)

145.800 12 kHzFM/DV Space communications (e.g. I.S.S.) - Space-Earth

145.806-146.000 12 kHzAM - Satellite exclusive

### Key:

\*(10 kHz channels)

AC - Aligned Channels

ACDS - Automatically Controlled Data stations (unattended)

AM - All Modes

CoA - Centre of Activity

**CPS - Contest Preferred Segment** 

CW - Telegraphy

DV - Digital Voice

IBP - International Beacon Plan

IVG - Internet voice gateway

MGM - Machine Generated Modulation

NB - Narrow Band

RTSB - Regional Time Shared Beacons

WTSB - World-wide Time Shared Beacons

#### **Notes:**

Note 1: Meteor scatter operation can take place up to 26kHz higher than the reference frequency.

Note 2: 12.5kHz channels numbered RV48-RV63. RV48 input = 145.000 MHz, output=145.600 MHz.

Note 3: 12.5kHz simplex channels numbered V16-V46.

V16=145.200 MHz.

Note 4: Emergency

Communications Groups utilising this frequency should take steps to avoid interference to ISS operations in non-emergency situations



Note 5: Embedded data traffic is allowed with digital voice (DV) Note 6: Simplex use only - no DV gateways

Note 7: EME activity using MGM is commonly practiced between 144.110-144.160 MHz

Note 8: The use of Amplitude Modulation is acceptable within the All Modes segment.

Amplitude Modulation usage may often be found on 144.550 MHz although this frequency is not officially recognised within the 2M band plan.

Note 9: In other countries IARU Region-1 recommend 145.375 MHz

Note 10: May be used for Emergency Communications and Community Events

Note 11: May be used for repeaters in other IARU Region-1 countries

#### **LICENCE NOTES:**

Amateur Service and Amateur Satellite Service - Primary User.

Beacons may be established for DF competitions except within 50 km of TA 012869 (Scarborough)

#### Notes to the Band Plan

ITU-R Recommendation SM.328 (extract)

Necessary bandwidth: For a given class of emission, the width of the frequency band which is just sufficient to ensure the transmission of information at the rate and with the quality required under specified conditions.

The use of Amplitude Modulation is acceptable in the all modes segments but users are asked to consider adjacent channel activity when selecting operating frequencies.

Foundation and Intermediate Licence holders are advised to check their licences for the permitted power limits and conditions applicable to their class of licence

## Wanted.

## Tony GØIAG

I am looking for vintage Hi-Fi equipment. Separates, record deck, speakers, amplifier or an old fashioned music centre.

# **Club Meetings and Nets**

Club Net - 08.00pm local time 2Mtrs (145.375Mhz) 70cms (433.575Mhz)

#### December

- 3 Christmas Social
- 10 Club Net 2 Mtrs
- 17 Natter Night
- 24 Club Net 70 cms
- 31 Club Net GB3BZ Repeater

## Januaary 2013 \*\*

- 7 Natter Night Radio Xmas Presents
- 14 Club Net 2 Mtrs
- 21 Equipment Safety Testing I
- 28 Club Net 70 cms

### **February**

- 4 Airfields I have visited Tony GOIAG
- 11 Club Net 2 Mtrs
- 18 "How I'm going to win the next construction contest"
- 25 Club Net 70 cms

### March

- 4 Morse Evening Keys, Programs, On-Air
- 11 Club Net 2 Mtrs
- 18 Baluns & their construction G0EMK
- 25 Club Net 70 cms

## **April**

- 1 Equipment Safety Testing II
- 8 Club Net 2 Mtrs
- 15 RSGB Regional Officer
- 22 Club Net 70 cms
- 29 Club Net GB3BZ Repeater

## May

- 6 Mills w/e Planning Natter Night
- 13 Club Net 2 Mtrs
- 20 AGM
- 27 Club Net 70 cms

#### June

- 3 Essex Air Ambulance
- 10 Club Net 2 Mtrs
- 17 Construction Contest
- 24 Club Net 70 cms

### July

- 1 Rig Clinic
- 8 Club Net 2Mtrs
- 15 Evening DF Hunt
- 22 Club Net 70cms
- 29 Club Net GB3BZ Repeater

### August

- 5 Club BBQ
- 12 Club Net 2Mtrs
- 19 Aerial Clinic
- 26 Club Net 70cms

<sup>\*\*</sup> All 2013 dates are provisional

## Odds & Ends - I

## Dave, G3PEN

I recently bought a DVD containing 30 years of ARCI Newsletters. They are fascinating! I have just started reading them, and I think that they could be a great source of "odds & ends" for our own newsletters. I will therefore try to pass such ideas etc along for use in BARSCOM.

I hereby acknowledge the source of such pearls of wisdom as coming from the ARCI newsletters, but I won't always try to identify the original author(s), as they can be found by someone reading the newsletters. The club website is www.qrparci.org.

I have already found that going through these quarterly editions is VERY slow work! A typical issue has about 50-60 pages of material. There is a vast amount of detail on all sorts of subjects - mainly (but certainly not only) constructionprojects and based related information. For instance, the very first edition looked at (Winter, 2010) contains a very full list of almost all available ORP construction kits across the world detailed a of the examination effect mounting toroids and the hardware

used, and an in-depth review of WSPR, SDR and QRP.

The first idea (Winter, 2010) is for a good-looking form of support for equipments, to tilt them up at the front - a "bail", as I think it is usually called. It is suggested that the handles for kitchen furniture drawer fronts make excellent supports. coming in various materials, colours, and sizes. They usually are supplied with fixing screws at the rear, and two neat holes in the bottom of the equipment allow them to be fitted neatly and securely. The same handles can also be used for normal carrying handles. of course www.kr1st.com/ft817stand.htm shows how a CD case can be used as an inexpensive way of lifting the front of a small rig, like an FT817 or similar to be more visible; it also has other useful ideas

Do you know why the copper wire with Teflon insulation is always silver-plated? Apparently, this is because the temperatures needed during the extrusion of the Teflon would immediately cause the copper wire surface to oxidise. The silver plating avoids this problem - and incidentally makes the wire even more conductive for RF - great!

To be continued



## **Licence Re-validation**

## **Ofcom**

In December 2006 Ofcom issued 5-year licences to every amateur that had taken out or renewed a licence in the previous year.

It was planned these licences would expire in December 2011 but due to the preparatory work needed for the 2012 Olympic Games Ofcom decided to automatically extend the licences so they would expire in December 2012. This means licence holders need to validate them for a further 5 years on the Ofcom Online Licensing page by using the Validate link that appears against each licence.

If you experience difficulties or need assistance in processing your licence online, call Ofcom on 0300 123 1000 or 0207 981 3131.

**Metal Detecting** 

Tony GØIAG

Monday 19<sup>th</sup>
November Howard
G6LXK, was
our speaker
for the
evening, his
subject was

metal detecting. The equipment, he said, is important, but just as



important as somewhere to detect, Howard showed us on the projector a

map of the fields he detects near his home, and how he plans his detecting.



Apart from the fascinating talk Howard also brought along a large selection of finds, ranging in age from modern back to Tudor times, but no hoard of gold yet, All in all a riveting talk, and against a back drop of no lights and noisy



## **Rallies**

#### 2 DECEMBER

BISHOP AUCKLAND RADIO AMATEURS CLUB RALLY - Spennymoor Leisure Centre, Co Durham DL16 6DB. CP, TI S22 (V44), OT 10.15/10.30, £2 (U14 free). TS, B&B, C, LB, DF, FAM. Details Mark, GØGFG, 01388 747 497.

#### 8 DECEMBER

SOUTH LANCS WINTER RALLY - Bickershaw Labour Club, Bickershaw Lane, Bickershaw, Wigan. OT 10am, traders 8am. Tables £8 pre-booked, entry £1.50, TI, B&B, C, DIS, CP, SIG, DF, TS, LB. Allan, 2EØRAG, 07533 970 841, rally@slarc.co.uk.

#### **Events for 2013**

#### 13 JANUARY

RED ROSE WINTER RALLY - George H Carnall Leisure Centre, Kingsway Park, M41 7FJ (easily accessible from M60 J9, opposite the Trafford Centre). Free CP, B&B, C, OT 11am, TS, SIG, DF, RSGB book stall. Details from Steve, 07502 295 141.

Visit website: www.wmrc.org.uk

#### **20 JANUARY**

DOVER AMATEUR RADIO CLUB RALLY - Whitfield Village Hall, Dover CT16 3LY. 10am - 1pm, £2, auction 12.30pm. Peter Halloway, MØPKH, 07775 515 890, peter.hallowaysky.com.

Visit website: www.doverradiorally.com

PENCOED AMATEUR RADIO CLUB BRING & BUY SALE - Pencoed Rugby Football Club, The Verlands, Felindre Road. Pencoed CF35 5PB. Tables £5 each bookings to Gerry Day 01656 860 761. Doors open at 08:30 for sellers. OT 9.30, £2, C.

Visit website: <a href="https://www.mw0prg.co.uk/events.uk">www.mw0prg.co.uk/events.uk</a>

## **Contests**

#### VHF/UHF

#### December

- 2 0900-1700 144MHz Affiliated Societies Contest
- 4 2000-2230 144MHz UKAC
- 11 2000-2230 432MHz UKAC
- 18 2000-2230 1.3GHz UKAC
- 25 2000-2230 SHF UKAC
- 25 2000-2230 50MHz UKAC
- 26-29 1400-1600 50/70/144/ 432MHz Christmas Cumulatives Contest

#### 2013

### **January**

- 1 2000-2230 144MHz UKAC
- 8 2000-2230 432MHz UKAC
- 15 2000-2230 1.3GHz UKAC
- 22 2000-2230 SHF UKAC
- 22 2000-2230 50MHz UKAC
- 29 2000-2230 70MHz UKAC

### **February**

- 3 0900-1300 432MHz Affiliated Societies O SF Affil'd Societies (S3) O SF Cumulative contest (S5)
- 5 2000-2230 144MHz UKAC
- 12 2000-2230 432MHz UKAC
- 19 2000-2230 1.3GHz UKAC
- 24 1000-1200 70MHz Cumulatives #1
- 26 2000-2230 SHF UKAC
- 26 2000-2230 50MHz UKAC

#### HF

#### 2013

### January

- 13 1400-1800 AFS Contest CW All Affiliated Societies contest (S1)
- 19 1400-1800 AFS Contest PHONE ALL Affiliated Societies contest (S1)

### **February**

- 4 2000-2130 80m CC SSB QRP
- 9-10 2100-0100 1st 1.8MHz Contest UK Non-UK DXCC & UK District Bonus (M3)
- 13 2000-2130 80m CC DATA QRP
- 21 2000-2130 80m CC CW QRP

#### March

- 4 2000-2130 80m CC DATA LOW ORP
- 9-10 1000-1000 Commonwealth Contest OPEN RESTRICTED Multi-Op HQ Commonwealth Contest (S2)
- 13 2000-2130 80m CC CW LOW QRP
- 21 2000-2130 80m CC SSB LOW QRP

# **Braintree and District Amateur Radio Society**

## **General Info**

Braintree and District A R S meets every 1st and 3rd Monday of the month at The Clubhouse, Braintree Hockey Club, Church Bocking. Doors open from 7.30 pm for an 8 pm start to the meeting. Prior to 8 pm, and during the refreshments break, when a cup of tea or coffee is available free of charge. members have the opportunity to sell or exchange equipment etc. Meetings normally finish at 10 pm.

A Club Net operates on the 2nd and 4th Mondays (excluding Bank Holidays) under the call-signs G6BRH and G3XG. The net commences at 20.00 clock-time on V30 (S15) - 145.375MHz and SU23 - 433.575MHz, unless QRM. In

months with 5th Monday the net operates via GB3BZ 430.850Mhz.

The Club Membership fee is £16 annually; Senior members (State Retirement age) and Junior members (under 18) pay a reduced club subscription of £10. Door fees are payable per meeting. Rates are £1 for members, and £1 for visitors.

This magazine, "BARSCOM", is issued free to members, usually at the first meeting of the month by e-mail. Members unable to attend club meetings may lodge S.A.E.s with the Editor for printed copies of BARSCOM.

Members advertisements are published free of charge.

For more information and pictures of events and projects see our Web Site at www.badars.co.uk

The next edition will be published on January 1

The deadline for submissions for the next edition is December 28

When disposing of this booklet please shred or destroy the back page to protect members' privacy.

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