



BARSCOM



G3XG

GX3XG

G6BRH

DUNMOW

STEBBING

RAYNE

HALSTEAD

COGGESHALL

NOTLEY

WITHAM

BRAINTREE

SILVER END

Monthly Communication of the Braintree and District Amateur Radio Society

July
2012



Spot the Scarecrows

Chairman's Comments

Howard, G6LXX

Thank you for your vote of support. I aim to keep things pretty much as they are for you, with our varied programme, perhaps with one or two excursions planned. I am sorry that I was not able to attend my first meeting – I was in the Emirates. Not the United Arab Emirates, the Emirates stadium, home of Arsenal FC, for a concert by Coldplay.

When we entered the stadium, each person was given a brightly coloured wristband. During certain songs in the concert, the wristbands switched on by an RF signal, creating a dazzling display of twinkling lights on 40,000 wrists. The data transmitted can switch on certain colours or sequences for the tiny LEDs in the band. It was quite amazing and beautiful. Unfortunately, these units (called xylobands) end up going home as a souvenir, despite an amnesty, so it costs Coldplay a lot of money. The bands only work with a range of about 500m, so the stories of the

bands lighting up in people's homes afterwards is either a myth or a malfunction! There is some talk of a global event planned in homes using the wristbands, although it will depend if the tiny battery in them will last.

73

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Don't forget!

BBQ and DF Hunt

Barbecue 2 July and DF Hunt 16 July

Scarecrow Weekend Report

Tony GØIAG

Within 3 hours we had put up the aerials, erected the tent, kitted it out and set up.

The club put on a special event station for the Gosfield Scarecrow Trail on Sat 16th & 17th June, using the callsign GX3XG/P.

On Friday 15th a group of us turned up at the QTH of Geoff GØBYH who had, as usual, kindly donated his front garden for the event.

It was at this point we introduced our 2 scarecrows Roger Ham and Mike Button to their operating position at the 1950's Hamerland radio station kindly donated by Melvin.

On Saturday and Sunday we operated the club equipment to represent the 60 years of development in radio during the Queens reign. The band conditions were so poor due to a massive C.M.E., but we managed to work a few countries on 40 & 20 metres. The furthest contact was SV8/PDØAR on Corfu - well done Melvin!



Taking a well-earned rest - the two main participants.

Those present, Melvin GØEMK, Dave GØDEC, Edwin GØLPO, John M5AJB, Howard G6LXX, Tony GØIAG, and of course Geoff.

On Saturday we spent much of the time holding down the tent because of the high wind, but on Sunday the weather was kinder. We broke station at about 4p.m. on the Sunday.

Thanks to all who took part.

Club Meetings and Nets

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

July

- 2 Club BBQ
- 9 Club Net - 2Mtrs
- 16 DF Hunt
- 23 Club Net - 70cms
- 30 Club Net - GB3BZ Repeater

August

- 6 Summer-Camp Planning/
Natter/Show & Tell
- 13 Club Net - 2Mtrs
- 20 Aerial Clinic
- 27 Club Net - 70cms

September

- 3 Scanning - Howard
- 10 Club Net - 2Mtrs
- 17 Natter Night
- 24 Club Net - 70cms

October

- 1 Video Evening/JOTA Planning
- 8 Club Net - 2Mtrs
- 15 Wildlife of Essex - Talk by
Mr/Mrs Jiggins
- 22 Club Net - 70cms
- 29 Club Net - GB3BZ Repeater

November

- 5 Club "Junk" Sale
- 12 Club Net - 2Mtrs
- 19 Metal Detecting - Howard
- 26 Club Net - 70cms

Next Month

Latest News from the RSGB/ARRL

For Sale and Wanted

Thailand Report - Part II

Plus the usual ...

Events, Rallies, Contests, etc.

???

Your Photos

BARSCOM Survey

Ian, G8MKN, Editor

Thanks to those who have returned the recent survey form. A second form has been attached to the e-mail with this mag for those who lost/forgot the first one.

It takes some time to trawl the internet for information and compile the items so if you have an unusual hobby, or interesting sideline, why not write in and share it with the rest of us.

Photos, sketches, circuit diagrams, etc. welcome.

Thailand Udate - Part I

Derek Mayes

HS0ZJH/G3MMA

Readers may remember my account of the flooding in Thailand and the description of how a surge of flood water inundated the RAST Club Station and the premises situated two miles to the north of Rangsit, Bangkok. Water rose rapidly to reach a depth of around two metres and although the equipment had been placed as high as possible in the station "just in case", this had not been high enough, the water almost reached the ceiling, and damage to equipment was total.

However, thanks to the generosity of hundred of friends of RAST throughout the world, funds now amounting to over 300,000 baht, (£6,240) have been donated. Additionally RAST has been given equipment worth almost as much again, and members are working hard to rebuild the station in a new QTH in central Bangkok.

RAST life member, Paul Duncanson, HS0ZAC and W5MMT had not attended the RAST club meetings for several years; however, he attended in May and announced that he was retiring and selling his

business. As a gesture of support to help RAST recover from the severe flooding he has donated a top-of-the-line Yaesu FTDX5000MP transceiver to the society. You may imagine the big round of applause by members in gratitude for this very generous gift.

We had to wait eight weeks for the flood-water to pass through Bangkok and drain away, and for the authorities to allow us into the area because there was about one-eighth of an inch of sewage covering everything, which was of course a health-hazard. We then carried out a detailed survey of the damage to the operating room and engaged in a massive clean up. We started to bring in new furniture and enough equipment to get back on the air. Luckily all the antennas mounted on top of our three towers were intact and all the supports and foundations of our three high towers were also intact.

The flooding had been great shock to everybody, and there was a feeling that it could happen again. Therefore we set-about evaluating alternative locations for a longer-term and flood-free QTH. At the time we considered that the present location of the club was excellent in terms of access, and we doubted that we

could find somewhere that could be as easy for travelling requirements and convenience of members.

Additionally, if we were to continue being both a club station and a contest station we would have to check out noise levels which are very, very, high in many areas in and around Bangkok. The main noise level comes from the millions upon millions of air-fans and air conditioning units – especially when the temperature hits over 40 °C. There are of course regulations in Thailand regarding electrical pollution, but like the traffic laws, commerce, science and industry never take any notice of them and the authorities never enforce them. Everybody goes their own sweet way in ‘The Land Of Smiles’.

We eventually had an offer of accommodation from the AIT at their PTU Campus which is 12 miles from the centre of Bagkok and has all the facilities that one could dream about. After negotiations, RAST, signed an agreement for the installation of an amateur radio club station at the AIT, PTU Campus. The station has been jointly built and will be completed by RAST and AIT at a cost of 450,000 baht (£9,375). Some 300,000 baht,(£6,240) of this figure has been from generous

donations by RAST friends throughout the world.



AIT Provost, Mario T. Tabucanon, and President, Jean-Louis Armand shake hands and exchange copies of the the signed agreement at the opening ceremony of the new club station.

This new world-class amateur radio station of the Radio Amateur Society of Thailand will be formally opened on the PTU Campus and operations will begin at the station by using a special callsign HS72B that will commemorate Her Majesty the Queen's 80th Birthday this August. The significance of the figure ‘72’ denotes the number of years that His Majesty King Bhumibol Adulyadej has reigned in Thailand.

The station will provide a facility for radio amateurs in Thailand to develop their operating skills to a world class standard in international radio communication and

competition. It will also present an opportunity for AIT students at the University to learn about amateur radio and to engage in the hobby, according to President of RAST, Mrs Mayuree Chotikul.



AIT Provost, Mario T. Tabucanon, and President, Jean-Louis Armand, holding the signed agreement.

Operators at the station will be licensed members of RAST, Thailand's national amateur radio society which is under the Royal Patronage of His Majesty the King and is a member of the International Amateur Radio Union, an ITU-affiliated body.

Professor Armand noted how amateur radio had played a key role in paving the way for many of the technological developments that we take for granted today, while the RAST President thanked the institute for its long-standing relationship with the national amateur radio society, which has had a presence on the campus for most of the past 22 years.

Operations will begin at the station by using a special callsign HS72B that commemorates Her Majesty the Queen's 80th birthday, on Sunday the 12th of August, for which permission has also been granted to operate on the 10-, 18- and 24-MHz so-called "WARC" bands in addition to the usual short-wave amateur radio bands. The call sign normally used by the club station which is known worldwide, is HSØAC.

To be continued... ➡

Club, Raynet, and Special Events

Tony, GØIAG

7 July Bradwell Pilgrimage (Raynet) - Help and new members welcome

8 August - Club Radio Demonstration Day - George Yard Shopping Centre

10-13 August - Summer Camp - come and enjoy, play radios and relax

Know the Band Plans-VI

RSGB

21 MHz (15m)

- 21,000-21,070 200 Hz CW
- 21,055 kHz (slow CW) CoA
- 21,060 kHz QRP CoA
- 21,070-21,090 500 Hz NB
- 21,090-21,110 500 Hz NB ACDS
- 21,110-21,120 2.7 kHz AM
- (excluding SSB) - ACDS
- 21,120-21,149 500 Hz NB
- 21,149-21,151 IBP - reserved
- exclusively for beacons
- 21,151-21,450 2.7 kHz AM
- 21,180kHz - digital voice CoA
- 21,285 kHz - QRP CoA
- 21,340 kHz - Image CoA
- 21,360 kHz - Global
- Emergency CoA

LICENCE NOTES: Amateur and Amateur Satellite Service - Primary User.

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.

Key:

- ACDS - Automatically Controlled Data stations (unattended)
- AM - All Modes
- CoA - Centre of Activity
- CPS - Contest Preferred Segment
- CW - Telegraphy
- IBP - International Beacon Plan
- NB - Narrow Band

Priority:

- P1 - inter-continental operation
- P2 - inter-continental telephony
- P3 - Priority for Dxpeditions

For Sale

Mountain Bike

Claude Butler Falcon
21 Shimano gears.
Excellent condition hardly used.
Suit inside leg 28"-33"
Perfect for bicycle mobile. £90.00

Tony, GØIAG
Contact details on back page.

Policing of the bands?

Tony, GØIAG

We all complain at times about east Europeans and Italians using very high power to achieve rubber stamp Q.S.O.s, but perhaps we should look to ourselves.

Recently I have had more time to spend on the radio and have been shocked by the arrogance of some new licencees. For example I heard an M6 answering an enquiry about his station, said "I am running 200 watts with my FT2000DX". Two days later an M3, in the West

country was asked a similar question and replied "I have a Kenwood TS480SAT and I am pushing 100 watts". Both stations, I heard were on the 40 metre band. As we all know, foundation licencees are restricted to 10 watts, and my opinion, rightly so. Is it time to return to the system of restricting the band allocation for the lesser qualification to VHF and UHF, 10 watts max. Then increase the band allocation and power as the person becomes more qualified. Perhaps we should report the wrong doers to OFCOM!

Your thoughts please!

Club Net Reports

Melvin GØEMK

Net # 599

Freq: 145.375 Mhz Held: 11/6/12

Net Controller: Melvin GØEMK

using club callsign G3XG/A

Time: 19.00 to 20.05 GMT.

Participating Stations: John, M5AJB; Howard, G6LXK; Edwin, GØLPO; Eddy, M6RHA and Dave, GØDEC.

Operation then moved to 6m.

Freq: 51.490 MHz

Time: 20.05 to 20.55 GMT.

Participating Stations: Howard, G6LXK; Edwin, GØLPO; Eddy, M6RHA; Tony, GØIAG; Dave, GØDEC and Martin, MØFAQ

Net # 600

Freq: 433.575 MHz Held: 25/6/12

Net Controller: Melvin GØEMK

using club callsign G6BRH/A

Time: 19.00 and 20.30 GMT.

Participating Stations: John, M5AJB; Dave, GØDEC; Eddy, M6RHA; Howard, G6LXK; Edwin, GØLPO and Martin, MØFAQ.

Many thanks to all for checking-in to the Monday night nets. 73

Rallies

7 JULY

BANGOR AND DISTRICT ARS RALLY – Donaghadee Community Centre, County Down BT21 0HB. OT 11.30am, £3, TS, B&B, SIG. Bill GI4AAM 02891 816 707, bill.langtry@btinternet.com [www.bdars.com].

15 JULY

QRP IN THE COUNTRY – Upton Bridge Farm, Long Sutton TA10 9NJ. QRP & homebrew in a country setting. TS, FAM, SIG. Tim Walford, G3PCJ, walfor@globalnet.co.uk.

29 JULY

HORNCASTLE SUMMER RALLY – Horncastle Youth Centre, Willow Road, Horncastle, Lincolnshire LN9 6DZ. 10.30, £1.50, DF, C. Tables £5, free power. Tony, G3ZPU, 01507 527 835.

12 AUGUST

FLIGHT REFUELLING ARS HAMFEST – Cobham Sports and Social Club Ground, Merley, Nr. Wimborne, Dorset. BH21 3DA. TI S22, CP, OT 10.00, TS, CBS, LB, C. Details Mike, MØMJS, 01202 883 479, hamfest@frars.org.uk [www.frars.org.uk].

2 SEPTEMBER

TELFORD HAMFEST – Enginuity Technology Centre, Coalbrookdale, Telford TF8 7DU. OT 10.30. TI S22 & GB3TF 433.200MHz. TS, SIG, free CP, LEC, FAM. Details from Martyn, G3UKV, 01952 255 416 [www.telfordhamfest.co.uk].

9 SEPTEMBER

FRISKNEY & EAST LINCOLNSHIRE COMMUNICATIONS CLUB RALLY – The Friskney Village Hall, Church Road, Friskney, Lincs, 6.5 miles south of Skegness. Details Bren, 2EØBDS, 01754 820 060, Ian Donnelly, 2EØXOD, 07554 362 020 [www.felcc.com].

23 SEPTEMBER

22nd GREAT NORTHERN HAMFEST – Barnsley Premier Leisure Complex, Queens Ground, Queens Road, Barnsley, South Yorkshire S71 1AN. OT 10.30am – 3pm, £3, DF, TS, SIG, RSGB Bookstall, LB, C, FAM. Ernie, G4LUE, 01226 716 339 [www.greatnorthernhamfest.co.uk].

28 & 29 SEPTEMBER

NATIONAL HAMFEST – brought to you by the RSGB in association with the Lincoln Short Wave Club. George Stephenson Pavilion, Newark and Nottinghamshire Showground, Lincoln Road, Winthorpe, Newark NG24 2NY (close to junction of A1/A46/A17). TS, B&B, CB, C, SIG, Morse proficiency tests on demand, RSGB Bookstall, RSGB Services & Committees, DF, FM [www.nationalhamfest.org.uk].

7 OCTOBER

AUTUMN MILITARIA & ELECTRONICS & RADIO AMATEUR HANGAR SALE – Hack Green Secret Nuclear Bunker, Nantwich, Cheshire, CW5 8AL. OT 10.00, civil, military and vintage radio equipment plus vehicle spares and more. Contact Rod Siebert, 01270 623 353, coldwatr@hackgreen.co.uk [www.hackgreen.co.uk].

12-14 OCTOBER

RSGB CONVENTION – Horwood House, Little Horwood, near Milton Keynes. Full convention programme with lectures for all interests and all levels of technicality [www.rsgb.org/rsgbconvention].

14 OCTOBER

HORNSEA AMATEUR RADIO CLUB RALLY – Floral Hall, 7 The Esplanade, Hornsea, East Yorks HU18 1NQ. OT 10.30, CP, TS, B&B, SIG, RSGB, RAFARS, LB, C, DF, WIN. Details from Rick, MØCZR, R106221@aol.com [www.hornsearc.co.uk].

4 NOVEMBER

HOLSWORTHY AMATEUR RADIO RALLY – Holsworthy Community College, Victoria Hill, Holsworthy EX22 6JD. Contact Roger Williams, 07773 983 691, gsowter@talktalk.net.

A Personal Genealogy

Geoff, G1WRH

As well as radio another interest I enjoy is researching my family history, and of all aspects I find the social history as interesting as any.

Dave, G3PEN's June article about galvanized wire used as an earth mat reminded me of some of my research several years ago into my maternal great grandfather who worked for William Munton Bullivant a Victorian businessman who with his sons ran and owned a wire rope and netting factory at Millwall on the Isle of Dogs. Another of my relatives was married to a Bullivant; not unfortunately the wealthy William, but one of his lesser 'cousins', a Millwall rag merchant. At the date of his 1876 marriage age 21 my ancestor Alfred Rickard was already shown as a wire worker (below).

January 23 rd 1876	Alfred James Rickard	Full	Bachelor	Wire Worker
	Martha Keshatten	Full	Spinster	

By the 1891 Census, his employment is shown as wire netting worker (below).

Alfred J Rickard	Head	M	35	Wire Netting Maker
Martha de	Wife	M	34	
William de	Son	M	7	Scholar
Martha de	Son	M	5	do
Edward de	Son	M	3	
Victor de	Son	M	1	

Bullivant manufactured and exported hundreds of miles of netting to Australia, £100,000 worth a year, equivalent to over £12 million today, to protect land against rabbits and coypus.

He was the son of a Devon rope maker and had been a mariner so he knew the shortcomings of hemp ropes, but also saw that iron rope strands fractured and split. He developed steel ropes with hemp cores and pitch coatings that were stronger than hemp ropes and more flexible than iron. Gradually they took their place in industry, mining and the docks, and were also used for cable cars.

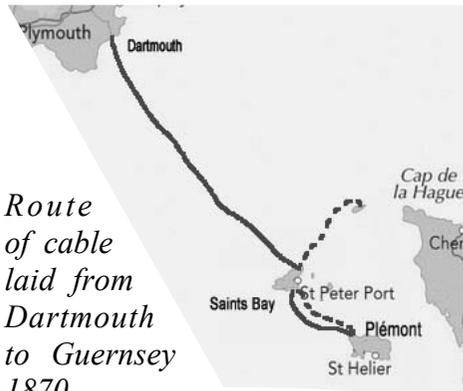
In the 1860's with two other London merchants he set up a merchant navy training facility on the Thames on board HMS Worcester, which had been lent to them by the Admiralty. As need arose various ships of increasing size were renamed HMS Worcester, and the Thames Nautical Training College as it was by then known continued until July 1968 when it became part of the Merchant Navy College at Greenwich, and the last HMS Worcester was dismantled

In 1870 with an associate, he won the contract to lay a submarine cable from the U.K. mainland to



the Channel Islands to replace an earlier, now faulty one that had been laid in the 1840's over an unsuitable sea bed from Portland via Alderney.

The specification for the new cable was that it should be *“made of three copper wires of No 16 BWG (Birmingham Wire Gauge*) covered in three layers of gutta percha” (natural rubber as used in golf balls) “of No 4 BWG served with well solutioned yarn. The deep-sea section shall be covered in 9 iron wires of No 4 BWG and the shore ends in No 0 BWG”.*



Route of cable laid from Dartmouth to Guernsey 1870.

Telegraphy speeds of 40 wpm were achieved.

In 1882 he filed a patent application for *“Improvements in floating anchors to enable disabled steamers and other vessels to ride out heavy gales, and for other like uses”* and

in 1885 another for *“Improvements in the manufacture of torpedo nets and approved attachments therefor”*. He also made telegraph cables, and used his new steel rope technology to develop submarine cables.

While Bullivant was making his fortune and doing his good deeds, my great grandfather was suffering and died aged 40 from a chronic illness most likely brought about by his working and living conditions. His 1895 death certificate shows him still as a wire worker after at least 20 years working in the industry (below).



His wife ended up for a further 20 years in an institution, and his youngest child Violet was cared for by a household including her aunt, Mary Bullivant, widow of the rag merchant, as shown in the 1901 Census (below).

Mary Ann Bullivant	Head	M	35
Mary Bullivant	Wife		58
Violet Richards	Daughter		10

* BWG sizes are approx equal to SWG

Contests

VHF/UHF

July

- 3 1900-2130 144MHz UKAC
- 7-8 1400-1400 VHF NFD
- 8 1100-1500 3rd 144MHz
Backpackers
- 10 1900-2130 432MHz UKAC
- 17 1900-2130 1.3GHz UKAC
- 22 1000-1600 70MHz Trophy
Contest
- 24 1900-2130 50MHz UKAC
- 24 1900-2130 SHF UKAC
- 31 1900-2130 70MHz UKAC

HF

July

- 2 1900-2030 80m CC CW QRP
- 11 1900-2030 80m CC SSB QRP
- 19 1900-2030 80m CC DATA
QRP
- 22 0900-1600 LP Contest A B C D
- 28-29 1200-1200 IOTA Contest
Single Operator
Unassisted Single Operator
Assisted Multi Operator IOTA
Points (M4)

August

- 5 0700-0830 RoPoCo CW ALL
- 8 1900-2030 80m Club Sprint
CW QRP
- 23 1900-2030 80m Club Sprint
SSB QRP

September

- 1-2 1300-1300 SSB Field Day
Open (SSBFD)
Restricted (SSBFD)
DXCCs worked on each band
(M1)
- 12 1900-2030 80m Club Sprint
SSB QRP
- 27 1900-2030 80m Club Sprint
CW QRP

October

- 7 0700-1900 21/28MHz Contest
UK Open UK

Thanks

*Derek, HSØZJH
(G3MMA)*

I have just recieved the certificate which nominated me for The Harold King Memorial Award. It came as a great, but welcome surprise and I duly bow with humble thanks.

It brought on a feeling of guilt because for 'umpteen' reasons I haven't put pen to paper for some time. This guilt has spurred me into action and I have four or five pages to send to Ian.

Braintree and District Amateur Radio Society

Braintree and District A.R.S. meets every 1st and 3rd Monday of the month at The Clubhouse, Braintree Hockey Club, Church Street, 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 callsigns G6BRH and G3XG. The net commences at 20.00 clocktime 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. Usual deadline for copy is the 3rd weekend of each month.

Members advertisements are published free of charge.

The club operates a no smoking policy at it's meeting.

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 **August 1**

The deadline for submissions for the next edition is July 28

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

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