



*An Amateur Radio publication for the Microwave Enthusiast*

# scatterpoint

**October 2014**

Published by the UK Microwave Group

**Keith GW3TKH enjoying the  
fine weather  
See page 8**



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**Editor's  
corner**

Please read the Ofcom Announcements on page 10.

Scatterpoint lite this month.

73 de Martin G8BHC

## Subscription Information

The following subscription rates apply.

UK £6.00      US \$12.00      Europe €10.00

This basic sum is for **UKuG membership**. For this you receive Scatterpoint for **FREE** by electronic means (now internet only) via the [Yahoo group](#).

Please make sure that you pay the stated amounts when you renew your subs next time. If the amount is not correct your subs will be allocated on a pro-rata basis and you could miss out on a newsletter or two!

You will have to make a quick check with the membership secretary if you have forgotten the renewal date. Please try to renew in good time so that continuity of newsletter issues is maintained.

Put a **renewal date reminder** somewhere prominent in your shack.

Please also note the payment methods and be meticulous with PayPal and cheque details.

### PLEASE QUOTE YOUR CALLSIGN!

Payment can be made by: PayPal to

[ukug@microwavers.org](mailto:ukug@microwavers.org)

or a cheque (drawn on a UK bank) payable to 'UK Microwave Group' and sent to the membership secretary (or, as a last resort, by cash sent to the Treasurer!)

## Articles for Scatterpoint

News, views and articles for this newsletter are always welcome.

Please send them to

[editor@microwavers.org](mailto:editor@microwavers.org)

**The CLOSING date is  
the FIRST day of the month**

if you want your material to be published in the next issue.

Please submit your articles in any of the following formats:-

**Text:** txt, rtf, rtf, doc, docx, odt,

**Pages**

**Spreadsheets:** Excel, OpenOffice,  
**Numbers**

**Images:** tiff, png, jpg

**Schematics:** sch (Eagle preferred)

I can extract text and pictures from pdf files but tables can be a bit of a problem so please send these as separate files in one of the above formats.

Thank you for your co-operation.

**Martin G8BHC**

## Reproducing articles from Scatterpoint

If you plan to reproduce an article exactly as per Scatterpoint then please contact the [Editor](#) – otherwise you need to seek permission from the original source/author.

You may not reproduce articles for profit or other commercial purpose.

You may not publish Scatterpoint on a website or other document server.

# UKμG Chip Bank – A free service for members

The catalogue is now on the UKμG web site at [www.microwavers.org/?chipbank.htm](http://www.microwavers.org/?chipbank.htm)

Non members can join the UKμG by following the non-members link on the same page and members will be able to email Mike with requests for components. All will be subject to availability, and a listing of a component on the site will not be a guarantee of availability of that component. The service is run as a free benefit to all members and the UK Microwave Group will pick up the cost of packaging and postage.

*Minimum quantity of small components supplied is 10.* Some people have ordered a single smd resistor!

The service may be withdrawn at the discretion of the committee if abuse such as reselling of components is suspected.

There is an order form on the website with an address label which will slightly reduce what I have to do in dealing with orders so please could you use it. Also, as many of the components are from unknown sources, if you have the facility to check the value, particularly unmarked items such as capacitors, do so, and let me know if any items have been miss-labelled. G4HUP's [Inductance/capacitance meter](#) with SM probes is ideal for this (Unsolicited testimonial!!)

Don't forget it is completely free, you don't even have to pay postage!

**Mike G3LYP**

## UKμG Technical support

While many of you will have taken advantage of the “test equipment rooms” that we run at the Round Tables, sometimes that project just cannot wait for the few occasions per year when we hold them. One of the great things about our hobby is the idea that we give our time freely to help and encourage others, and within the UKμG there are a number of people who are prepared to (within sensible limits!) share their knowledge and, more importantly, test equipment. Our friends in America refer to such amateurs as “Elmers” but that term tends to remind me too much of that rather bumbling nemesis of Bugs Bunny, Elmer Fudd, so let's call them Tech Support volunteers.

While this is described as a “service to members” it is not a “right of membership!”

Please understand that you, as a user of this service, must expect to fit in with the timetable and lives of the volunteers. Without a doubt, the best way to make people withdraw the service is to hassle them and complain if they cannot fit in with YOUR timetable!

Please remember that a service like our support people can provide would cost lots of money per hour professionally and it's costing you nothing and will probably include tea and biscuits!

If anyone would like to step forward and volunteer, especially in the regions where we have no representative, please email [john@g4bao.com](mailto:john@g4bao.com)

The current list is available at [www.microwavers.org/tech-support.htm](http://www.microwavers.org/tech-support.htm)

## UKμG Project support

The UK Microwave Group is pleased to encourage and support microwave projects such as Beacons, Synthesiser development, etc. Collectively UKμG has a considerable pool of knowledge and experience available, and now we can financially support worthy projects to a modest degree.

Note that this is essentially a small scale grant scheme, based on 'cash-on-results'. We are unable to provide ongoing financial support for running costs - it is important that such issues are understood at the early stages along with site clearances/licensing etc

The application form has a number of guidance tips on it - or just ask us if in doubt!. In summary:-

- Please apply in advance of your project
- We effectively reimburse costs - cash on results (eg Beacon on air)
- We regret we are unable to support/running costs

Application forms below should be submitted to the UKμG Secretary, after which they are reviewed/agreed by the committee: <http://www.microwavers.org/proj-support.htm>

# Metalworking Tools for Microwaves: Crawley 2014

## Sources of Information, Tools and Materials

By Mike G3LYP

### Books

Zeus Precision Data Charts and Reference Tables

Model Engineers Handbook, by Tubal Cain

Taps and Dies – Workshop Practice Series No 12

Metalworkers Data Book – Workshop Practice Series No 42

All of the above available from Amazon and many other sources.

### Magazines ( Useful for advertisements for tools and materials )

Model Engineer

Model Engineer's Workshop

Available from bookstalls and publisher - My Hobby Store

Engineering in Miniature

Available from Tee Publishing

### Tools

Tracy Tools - Large range of taps, dies, drill bits, milling cutters, etc. ( [www.TracyTools.com](http://www.TracyTools.com) )

Warren Machine Tools Ltd - Imported Drilling machines, mills, lathes and accessories.  
( [www.warco.co.uk](http://www.warco.co.uk) )

Chester Machine Tools – Similar range to Warco ( [www.chestermachinetools.com](http://www.chestermachinetools.com) )

Machine Mart – Wide range of drilling machines and other machinery ( [www.machinemart.co.uk](http://www.machinemart.co.uk) )

MSC Industrial Supply, 7 Pacific Avenue, Wednesbury, West Midlands, WS7 10WP [www.mscdirect.co.uk](http://www.mscdirect.co.uk)  
Vast range of engineering tools – a bit like Farnell or RS only for mechanical engineers.

Allendale Electronics, Machine DRO Dept, Pindar Rd, Hoddesdon, EN11 0BZ ( [www.machine-dro.co.uk](http://www.machine-dro.co.uk) ). Digital measuring tools etc.

Arc Euro Trade Ltd, Archdale St, Syston, Leics, LE7 1NA ( [www.arceurotrade.co.uk](http://www.arceurotrade.co.uk) ) Stepper motors and drivers, machine tools, and hand tools.

### Metal Supplies

John Keatley Metals Ltd, Shadwell St, Birmingham, B4 6HD. ( [www.johnkeatleymetals.com](http://www.johnkeatleymetals.com) ) Wide range of non-ferrous metals including stainless steel and tinsplate. Lots of off-cuts at reasonable prices!

College Engineering Supply, 2 Sandy Lane, Codsall, Wolverhampton, WV8 1EJ.

( [www.collegeengineering.co.uk](http://www.collegeengineering.co.uk) ). Steel, brass, copper, also some engineering plastics. Stall at most exhibitions.

Noggin End Metals, Unit 3, Bridge Industrial Estate, Hot Lane, Burslem, Stoke on Trent, ST6 2DL  
( [www.nogginend.com](http://www.nogginend.com) ) Stall at most exhibitions.

See also Ian White G(M)3SEK's "In Practice" website ( [www.ifwtech.co.uk/g3sek/in-prac](http://www.ifwtech.co.uk/g3sek/in-prac) ) UK Component and Tool Suppliers.

### Exhibitions

Midlands Model Engineering Exhibition, October 16 – 19, 2014. Warwickshire Exhibition Centre, Nr Leamington Spa, CV31 1XN

Model Engineering Exhibition, December 12 – 14 , 2014 Sandown Park.

London Model Engineering Exhibition, January 16 – 18, 2015, Alexandra Palace.

National Model Engineering and Modelling Exhibition, May, 2015. Harrogate Showground.

# HEELWEG MICROWAVE MEETING 2015



**SATURDAY  
JANUARY 17<sup>th</sup> 2015**

## LOCATION:



CAFÉ/ZAAL "DE VOS"  
HALSEWEG 2  
7054 BH WESTENDORP



**INFO@PAMICROWAVES.NL**

**PE1FOT/PA7JB/PA3CEG/PA0BAT**



## Activity News : September

By Bob Price G8DTF

***Please send your activity news to:***

[scatterpoint@microwavers.org](mailto:scatterpoint@microwavers.org)

### Introduction

Quite a short report this month as I have only had a few reports. Things are better on the activity here at G8DTF, as I have completed the rebuild of my 13cm transverter.

### September 23cm UKAC

**From Bob G8DTF IO83**

I had a go at the 23cm UKAC again this month. I really need more power than the 2W or so I currently have on 23cm. It was a struggle this month and I failed to make my self heard with some stations. The stations worked were

G4MVU	IO83	G8OHM	IO92
G4BVE/P	IO82	G0PEB/P	IO90
2E0PCF/P	IO93	G8CUL	IO91
M1DDD/P	IO93	G3TCU/P	IO91
G8XVJ/P	IO93	G4HGI	IO83
G8HXE/P	IO83	G3VKV	IO81
G4KCT/P	IO93	G3TDH	IO83
G3UVR	IO83	G4CFP/P	IO83
GD8EXI	IO74	G4JLG	IO83
G4BRK	IO91	G4ODA	IO92
GM4JR	IO85		

Best DX was with G0PEB/P at 336km. I did hear quite a few other stations, but my low power was just not making it happen.

### September SHF UKAC

There were no reports again this month for this contest, but there were

19 logs submitted on 2.3GHz

9 logs submitted on 3.4GHz

4 logs submitted on 5.7GHz

and 13 logs submitted on 10GHz.



### From Chris GW4DGU IO82

Much as I enjoy living in Wales, one of the problems I have is that there are relatively few good microwave sites which are easily accessible with a car. That's a fact of life determined by the topography.

As I'm becoming active from my new QTH in mid-Wales, I've been looking intently at the OS maps wondering where I could go to play microwaves. My home is now in a valley with horizons of up to +10deg. That's not a particular problem for EME – apart from working the Antipodes – and I hope to have my 'big' dish up in the next few months, but I'm still interested in terrestrial operation on the higher bands.

I tried a new site in IO82GP today for the 5.6 - 24GHz contest. I only took 24GHz with me, and my talkback consisted only of a very old IC202. I don't go out in contests to compete, but I was delighted to make my very first 24GHz QSO. I built the transverter about five years ago while still living in SW Wales, and although I had a lot of fun listening to my personal beacon while wondering around the countryside, I never made a QSO. Some tests with GW3TKH/P led to an exchange of signals at 100km, over the top of the highest mountains in South Wales, but a full QSO never resulted.

Yesterday's QSO was with G3ZME/P on Brown Clee, and was over the top of the Corndon Hill ridge on the Wales/England border. Signals both ways were huge. I could hear Martyn, Dave, and the group over about a 15degree arc.

The transverter is based on an Endwave SDH up-downconverter module, with a Verticom synthesiser, and produces in the region of 2W and a noise figure of ~3dB. The antenna is a standard 50cm, 24GHz link dish. I can hear both ground and Sun noise, but it's worth remembering that dishes for link use are designed to minimise sidelobes. In the case of the dish I'm using, that's achieved by an absorbing 'collar' around the rim. That's necessary to meet type approvals; these antennas aren't necessarily optimum for our use. Some years ago I designed an efficient,

low-noise feed for large f/D TV dishes, and I will be mating that with a 70cm offset reflector in the near future.

If I can find time away from decorating, and work commitments, not to mention trying to get back on 10GHz EME, I'll make a true WG input HEMT LNA for 24GHz over the coming winter. I already have a TWT which should give ~20W. Hopefully I'll be active on the band in future and able to exploit some of the interesting propagation mechanisms which seem to be available just beyond the reach of the current system.

### From Keith GW3TKH IO81

For the last of the cumulatives, Pete, G4HQX and I returned to The British, IO81KR.

The site has a good takeoff from about 60deg thru E & S to W. Ralph, G4ALY had told us of the possibility of some activity from NW France, so this seemed a better site than Cefn Y Galchen.

For the whole day we were hearing the 6 & 3cm beacons in IN88, but never very strong. Most of the mid distance 3cm stations had very fast, deep QSB, which made weak signal CW very difficult!

Pete's ODX on 6 & 3cm was G4EAT at 259km. My ODX on 3cm F6DWG/P at 448Km.

We heard the tuning signal from F9OE/P in IN77 at 13:00, which coincided with the strongest we heard F1ZAP/B, a planned test for 14:00 was abandoned as the beacon had become very weak, and the F9OE team had a long drive home, maybe next time?

Many thanks to Ralph for the comms and interpretation facilities with the French team.

Tests on 24GHz with Neil, G4LDR, Brian, G4NNS were totally unsuccessful, we were heard by the 'ZME team, but no QSO resulted. The only beacon heard was GB3AMU, so at least the gear was working.

Another interesting day, with warm calm weather, so we managed to top up the tans.

Many thanks to all for the QSOs and tests.





*Above picture showing (L to R): 10GHz 200mW, 10GHz 10W, 5.7GHz 10W, 24GHz 500mW.*

## Other September Activity

### From Bob G8DTF IO83

I was not able to get on for the SHF UKAC this month due to holidays, but I have finally managed to complete the rebuild of the 13cm transverter with new sequencer and a new device in the preamp after a T/R switch failure destroyed it.

I was able to carry out some tests on the 15<sup>th</sup> so I had a look to see who was around on KST on the Monday evening. The system now seems to be working well with just over 20W output and the RX preamp still mounted inside the transverter. I have a plan to move it to the masthead shortly.

I can just hear the GB3ZME beacon.

The first test was with Graham G3VKV and good signals were exchanged both ways.

The next test I tried was with Ralph G4ALY. I was not even hopeful of hearing anything, but Ralph started sending dots and after a little searching with the beam

### ...and finally

I want to encourage you get on the air as often as possible and report your activity to clearly document use of the amateur microwave bands. This means not just DX and EME, but also local activity with ATV, low power or WB equipment.

Please send your reports to [Scatterpoint@ukmicrowavers.org](mailto:Scatterpoint@ukmicrowavers.org), remember the deadline is the 1st of the month.

### 73 Bob Price G8DTF

heading, I was able to hear dots. Ralph could also just about detect a carrier from me, but nothing strong enough for a QSO.

The final test was with John G4BAO and again I could hear carrier and CW, but not strong enough for an SSB QSO.

This is quite encouraging as I still have a number of improvements to make and does show that the system is working pretty much as before.

### From John G4BAO JO02

Alan, GM0USI and I completed a JT mode, ISCAT-A Aircraft Scatter QSO over a 499km path today. Both stations running around 8W to 80 and 60cm dishes respectively

I really recommend playing with ISCAT-A on 10GHz! Anyone else want a go? Please email me.

## Important Ofcom Announcements

1. Ofcom have advised that there are expected to be LTE test transmissions over the next few months in the 13 cms/2.3 GHz band. The tests will be in the central London area and will be upto 38dBW erp. If licensed Radio Amateurs should become aware of unusual transmissions, they are asked to bear this in mind.

2. Ofcom has today [published a consultation](#) setting out proposals for updating the terms and conditions of the amateur radio licence.

These proposals include changes which would provide amateurs with access to some frequency bands previously available only through the variation of individual licences.

The consultation follows changes announced in our [April statement](#) on Public Sector Spectrum Release, where we set out our decision to remove access for amateur radio operators to certain frequencies in the 2300 MHz and 3400 MHz ranges in order to support the release of these bands by the Ministry of Defence.

This consultation, which is likely to be of interest to those in the amateur radio community, closes on **20 October 2014**.

The Ofcom Licence Review - [rsgb.org/licencereview](http://rsgb.org/licencereview)

***Please read the full pdf very carefully!***

## Cornish Beacon needs your help

The logo for the Mid Cornwall Beacon and Repeater Group (mcbarg) is displayed in a large, bold, red, lowercase sans-serif font.

The [Mid Cornwall Beacon and Repeater Group](#) provide radio facilities for the use of radio amateurs and shortwave listeners across the county.

The group is run by volunteers and is funded from donations received from users of the facilities provided.

UKuG are planning to make a 1 off donation of £100 to support the Cornish 23cm beacon at IO70oj on 1296.860MHz

The beacons are under serious threat of being closed-down due to lack of financial support. Also, the 1.3GHz beacon is not the only microwave beacon run by the the Group: GB3MCB on 10GHz is also a potent and useful signal.

Perhaps UKuG members might think it a good idea to make an [individual donation](#)?

The Mid Cornwall Beacon and Repeater Group provide radio facilities for the use of radio amateurs and shortwave listeners across the county.

The group is run by volunteers and is funded from donations received from users of the facilities provided.

# UK Microwave Group Contest Rules for 2015

The rules for the 2015 UKuG contest season will be set during December, ready for publication in January. Some suggestions for potential changes have already been received, and I am keen to receive further ideas for consideration, plus feedback on the proposals already made.

Activity levels in this years 10GHz events have been very good, the best for several years. As a result, some of the leading stations have been running out of time to work everyone they could during the 6 hour contest period, and one station has decided to drop 24GHz as there is not enough time and demand for it with the present rules.

A proposal has been made that there should be a series of events for the 24GHz and up bands, run on separate weekends from a series of 3.4/5.7/10GHz events, and that the Low Band contests should only include 1.3 and 2,3GHz.

Another suggestion for 2015 is to increase the maximum operating period to 8 hours within an overall 0600-1800 GMT contest time slot, and in conjunction with this to allow 24GHz operation throughout the 12 hours, so that 24GHz contacts can be attempted with less time pressure.

An alternative option is to leave it entirely to entrants as to how much of the overall 12 hour period they operate for.

The Microwave Field Day event in early August is now hardly attracting any entries or activity. A change of date has been suggested to move it away from the coincident RSGB low power contest. Would this help? As things stand it is unlikely to be run in 2015.

The Low Band contests are also seeing a declining entry level too, but not as marked. The RSGB UKAC events are very popular, so would it be better to focus activity exclusively on these and not run weekend UKuG events, or reduce the numbers of weekends involved?

Your comments on these proposals, and suggestions for other changes, will be very welcome. Please email me at : [g3xdy@btinternet.com](mailto:g3xdy@btinternet.com) prior to the end of November.

73

John G3XDY, UKuG Contest Manager

## Contests

John G3XDY, UKuG Contest Manager

Contest results are also published online - please follow the link from the UKuG Contests Page at:

[www.microwavers.org/?contesting.htm](http://www.microwavers.org/?contesting.htm)

### August 5.7GHz Contest 2014

Activity levels were poor and conditions were generally viewed as being average for this event.

Congratulations go to Ian Lamb G8KQW/P as winner, with Neil Underwood G4LDR as runner up and leading fixed station. G8KQW will be the winner of the 5.7GHz Championship having won three sessions already.

5.7GHz August 2014						
Pos	Callsign	Locator	QSOs	Score	ODX Call	ODX km
1	G8KQW/P	IO81FD	7	1565	G3XDY	344
2	G4LDR	IO91EC	5	796	F5LWX/P	370
3	G8CUB/P	IO92XA	5	751	G8KQW/P	261
4	GW4HQX/P	IO81KR	4	621	G3XDY	300

## August 10GHz Contest 2014

The entry level declined for this event, but the numbers of contacts made by the leading stations were comparable to July. Conditions were generally viewed as average to poor, with no rain scatter apparent this month.

Ian G8KQW/P manages to take the top spot this month, ahead of Nick G4KUX who continues his strong showing in this event. The leading restricted section entrant is Nick G4WLC/P. G4KUX maintains his place at the top of the Open section of the Championship table, with G4WLC/P taking over as the leading station in the Restricted section.

10GHz Aug 2014						
Pos	Callsign	Locator	QSOs	Score	ODX Call	ODX km
1	G8KQW/P	IO81FD	19	4188	M0DTS	401
2	G4KUX	IO94BP	13	3529	G4LDR	395
3	G4LDR	IO91EC	17	3056	G4KUX	395
4	G4WLC/P	IO81WU	19	2869	F9OE/P	430
5	G4BAO	JO02CG	16	2671	F6DKW	415
6	G8CUB/P	IO92XA	18	2533	G4KUX	317
7	G0LGS/P	IO81XW	16	2242	G4KUX	302
8	GW3TKH/P	IO81KR	13	2132	G3XDY	300
9	GW4HQX/P	IO81KR	12	1832	G4EAT	259
10	G4EML/P	IO90SV	9	1418	G8KQW/P	218
11	G6ZAC/P	IO90SV	9	1418	G8KQW/P	218
12	G0PEB/P	IO90JO	5	876	G4BAO	210
13	G3VKV	IO81XV	7	463	G8KQW/P	134

## August 24GHz Contest 2014

There was a poor turnout for this event, with just three stations making any contacts, and a tale of woe from G8KQW/P who damaged the dish feed in transit so could not get on.

24GHz August 2014						
Pos	Callsign	Locator	QSOs	Score	ODX Call	ODX km
1	G8CUB/P	IO92XA	2	72	G4BEL	39
2	G4BAO	JO02CG	2	44	G8CUB/P	33
3	G8KQW/P	IO81FD	0	0		0

## Highband Championship

### 5.7/10/24GHz Championship Tables

Positions after four events, the best three count to overall total

5.7GHz							
Pos	Callsign	5/25/14	6/29/14	7/27/14	8/31/14	9/28/14	TOTAL
1	G8KQW/P	0	1000	1000	1000		3000
2	G8CUB/P	1000	879	0	480		2359
3	G(T)3ZME/P	0	977	894	0		1871
4	G4LDR	0	309	710	509		1528
5	G8ACE/P	0	803	380	0		1183
6	GW4HQX/P	0	562	0	397		959
7	G4BRK	0	805	0	0		805
8	G3VKV	0	272	127	0		399
10GHz Open							
Pos	Callsign	5/25/14	6/29/14	7/27/14	8/31/14	9/28/14	TOTAL
1	G4KUX	1000	1000	1000	843		3000
2	G8KQW/P	0	826	530	1000		2356
3	G4BAO	611	0	591	638		1840
4	GW3TKH/P	0	199	853	509		1561
5	G(T)3ZME/P	552	393	609	0		1554
6	G8CUB/P	789	0	0	605		1394
7	G4EML/P	250	129	629	339		1218
8	G4LDR	0	420	0	730		1150
9	G8ACE/P	0	587	276	0		863
10	G6ZAC/P	250	108	0	339		697
11	G4BRK	0	459	0	0		459
12	G3VKV	0	172	166	111		449
13	GM0USI/P	0	0	235	0		235
14	G3PHO	0	177	0	0		177
15	G8AIM	0	0	123	0		123
16	GM4BYF/P	0	0	64	0		64
17	M0DTS/P	0	0	0	0		0
10GHz Restricted							
Pos	Callsign	5/25/14	6/29/14	7/27/14	8/31/14	9/28/14	TOTAL
1	G4WLC/P	883	1000	0	1000		2883
2	G0LGS/P	1000	554	1000	781		2781
3	GW4HQX/P	288	344	0	639		1271
4	G0PEB/P	0	351	379	305		1035
5	M0HNA/P	0	938	0	0		938
6	G4RGK	0	448	0	0		448
7	G1MPW/P	0	386	0	0		386
8	G3YKI			285	0		285
9	G4GSB/P	0	159	0	0		159
10	GM8OTI/P	0	129	26	0		155
11	GW4NOS/P			115	0		115

24GHz							
Pos	Callsign	5/25/14	6/29/14	7/27/14	8/31/14	9/28/14	TOTAL
1	GW3TKH/P	0	847	1000	0		1847
2	G3ZME/P	1000	0	525	0		1525
3	G8KQW/P	0	1000	475	0		1475
4	G8CUB/P	0	0	125	1000		1125
5	G3PHO/P	1000	0	0	0		1000
6	G4BAO	93	0	69	611		773
7	G8ACE/P	0	424	0	0		424
8	G4LDR	0	0	0			0

## 24/47GHz Trophies and 76-248GHz Contest 2014

Following on from the success of this event in 2013, entries were received for 4 bands again this year, with 7 stations active on 24GHz, 4 on 47GHz, 5 on 76GHz and two on 134GHz. 24GHz entry levels were lower this time, and there were no roving entrants.

On 24GHz Keith GW3TKH/P, operating from his usual site in IO81LS had a good lead over the joint runners-up G8ACE/P and G8KQW/P who were on Cleeve Common in IO81XW.

24GHz Trophy Contest						
Pos	Callsign	Locator	QSOs	Score	ODX Call	ODX km
1	GW3TKH/P	IO81LS	6	524	G4NNS/P	119
2	G8ACE/P	IO81XW	6	350	G4NNS/P	77
3	G8KQW/P	IO81XW	6	350	G4NNS/P	77
4	G3ZME/P	IO82QL	3	230	GW3TKH/P	84
5	G8CUB/P	IO91CL	4	228	GW3TKH/P	93

On 47GHz Roger G8CUB/P operating from IO91CL came out ahead of Keith GW3TKH/P.

47GHz Trophy Contest 2014						
Pos	Callsign	Locator	QSOs	Score	ODX Call	ODX km
1	G8CUB/P	IO91CL	3	201	GW3TKH/P	93
2	GW3TKH/P	IO81LS	2	165	G8CUB/P	93
3	G8ACE/P	IO81XW	3	127	GW3TKH/P	72
4	G8KQW/P	IO81XW	3	127	GW3TKH/P	72

76GHz saw a close finish with G8KQW/P winning by a small margin thanks to his contact with G8ACE/P as well as G8CUB/P. G8CUB/P was runner up.

G8CUB/P takes the honours on 134GHz with a contact with G0FDZ/P.

The 24GHz Trophy goes to GW3TKH/P and the 47GHz Trophy to G8CUB/P. G8CUB/P also takes the certificate for the overall leadership on the 76GHz – 248GHz bands. The runners-up will also receive certificates.

The 76GHz and 134GHz results are not published online due to some unresolved data issues.



<b>76GHz</b>						
<b>Pos</b>	<b>Callsign</b>	<b>Locator</b>	<b>QSOs</b>	<b>Score</b>	<b>ODX Call</b>	<b>ODX km</b>
1	G8KQW/P	IO81XW	2	55	G8CUB/P	54
2	G8CUB/P	IO91CL	1	54	G8KQW/P	54
3	GW3TKH/P	IO81LS	1	5	GW4HQX/P	5
4	GW4HQX/P	IO81LT	1	5	GW3TKH/P	5
5	G8ACE/P	IO81XW	1	1	G8KQW/P	1
<b>134GHz</b>						
<b>Pos</b>	<b>Callsign</b>	<b>Locator</b>	<b>QSOs</b>	<b>Score</b>	<b>ODX Call</b>	<b>ODX km</b>
1	G8CUB/P	JO01EP	1	1	G0FDZ/P	1
<b>Overall Table</b>						
<b>Pos</b>	<b>Callsign</b>	<b>76GHz</b>	<b>134GHz</b>	<b>Overall</b>		
1	G8CUB/P	982	1000	1982		
2	G8KQW/P	1000	0	1000		
3=	GW3TKH/P	91	0	91		
3=	GW4HQX/P	91	0	91		
5	G8ACE/P	18	0	18		

73

John G3XDY, UKuG Contest Manager

## For Sale

For Sale: A DF9LN oven controlled crystal oscillator on 106.500MHz, suitable for a high stability LO for 10GHz. It is in a tinplate box 55x55x40mm, with an SMC output connector (matching plug can be supplied). The crystal is well aged (run for 14 years) and the stability once warmed up is very good. It is for sale as I have replaced it with a new VCXO locked to a 10MHz reference. Price £30 to include post and packing. Please contact [g3xdy@btinternet.com](mailto:g3xdy@btinternet.com) if interested.

73

John G3XDY

# UKuG Microwave Contest Calendar 2014

Dates	Time UTC	Contest name	Low Band#	Certificates
23 -Nov	1000 - 1400	Low band 1.3/2.3/3.4GHz	5	F, P,L,R
Key:	F	Fixed / home station		
	P	Portable		
	L	Low-power (<10W on 1.3-3.4GHz, <1W on 5.7/10GHz)		
	R	Radio Talkback only		

## Events calendar

### 2014

Oct 6-9	European Microwave Week, Rome	<a href="http://www.eumweek.com/">www.eumweek.com/</a>
Oct 10-12	RSGB Convention	<a href="http://www.rsgb.org/rsgbconvention/">www.rsgb.org/rsgbconvention/</a>
Oct 24-25	Microwave Update, Rochester, New York	<a href="http://www.rvhfg.org/mud2014/">www.rvhfg.org/mud2014/</a>
Nov 1	Scottish Round Table	<a href="http://www.gmroundtable.org.uk/">www.gmroundtable.org.uk/</a>

### 2015

Jan 17	Heelweg Microwave, Westendorp Netherlands	<a href="http://www.pamicrowaves.nl/website/">www.pamicrowaves.nl/website/</a>
Apr 11	CJ-2015, Seigy	<a href="http://cj.ref-union.org/">cj.ref-union.org/</a>
April 25 – 26	Martlesham Round Table	<a href="http://mmrt.homedns.org/">mmrt.homedns.org/</a>
May 15 – 17	Hamvention, Dayton	<a href="http://www.hamvention.org/">www.hamvention.org/</a>
June 26 – 28	Ham Radio, Friedrichshafen	<a href="http://www.hamradio-friedrichshafen.de/">www.hamradio-friedrichshafen.de/</a>
July 11 – 12	Finningley Round Table	<a href="http://www.g0ghk.co.uk/">www.g0ghk.co.uk/</a>
Sep 28 – Oct 2	European Microwave Week, Paris	<a href="http://www.eumweek.com/">www.eumweek.com/</a>

### 2016

May 20 – 22	Hamvention, Dayton	<a href="http://www.hamvention.org/">http://www.hamvention.org/</a>
Jun 24 – 26	Ham Radio, Friedrichshafen	<a href="http://www.hamradio-friedrichshafen.de/">www.hamradio-friedrichshafen.de/</a>
Oct 4 – 7	European Microwave Week, London	<a href="http://www.eumweek.com/">http://www.eumweek.com/</a>