



Radio Society of Great Britain



## City of Bristol RSGB Group - G6YB

At the Bristol Lawn Tennis & Squash Club, Redland Green, Redland, Bristol BS6 7HF

Monday 28th September 1930hrs

Prof Andrew Nix: BEng, PhD (Bristol) Bristol University

5G and beyond - A Bristol Perspective

Professor Nix's talk will focus on 5G communications and beyond. The University are partners in 2 of the 19 recently announced EU projects working to define Europe's 5G radio standard. This technology is planned for roll-out between 2020 and 2025.

The talk will cover new radio technologies such as Massive MIMO and mmWave communications and explain how these will be integrated with existing radio standards such as LTE-A and Wi-Fi. Andrew will give examples of technology demonstrators and projected 5G data rates.



The talk will also cover the Internet of Things with practical examples drawn from the automotive and healthcare industries. The University has built a test house in Bristol to evaluate "assisted living" technologies (radios, cameras, body worn sensors etc). The University is also a partner in Bristol Is Open (BIO), a smart city test-bed in collaboration with Bristol City Council. The talk will explain how the University is developing a "living lab" in the centre of Bristol!

*Not to be missed !*

## Harry Grindell Matthews 17<sup>th</sup> March 1880 – 11<sup>th</sup> September 1941

**Harry Grindell Matthews** may not be a familiar name to many - certainly not to me. However, whilst taking a walk along Bristol Road in Winterbourne a few years ago, I noticed a blue plaque on the wall of the Grove Nursing Home. The plaque related the fact that this was the birthplace and childhood home of ‘inventor and wireless pioneer’ Harry Grindell Matthews.



Eccentricity, I thought, would not be too hard to find. I was right. Amongst Harry Grindell Matthews’ claimed inventions are ...

**1911** The ‘Aerophone’, which was some sort of radio telephone device with a range of a few miles and could send messages from the ground to aircraft. This followed his earlier claim to have been the first person to transmit speech in 1907.

**1914** Invented a device for the destruction of Zeppelins and other hindrances. For this, the government gave him £25,000, which was a very large sum of money in that day, even though he had only demonstrated the incapacitation of a remotely controlled boat on a park pond in London. However, nothing more came of the invention.

**1921** Matthews claimed to have invented the talking motion picture – though others had made similar claims before him. Though this device ‘apparently’ worked, his invention received very little interest.

**1923** Perhaps his biggest claim to fame was the ultra violet ‘Death-Ray’, which, although rather feeble in reality, Matthews claimed could eventually be developed to shoot down enemy aircraft and seriously curtail many other forms of troublesome enemy action. This particular invention caused a huge sensation. Matthews was the hero of the moment. The press went into a wild hype-overload and the government forbade him to sell his idea to anyone else. Despite offers of large sums of money by would-be UK investors, Matthews, did not hang around to actually demonstrate it but immediately went abroad to gather interest (and eventually failed).



**1930** Invented a device for projecting images onto clouds.

Harry Grindell Matthews was extremely cagey about his inventions – the majority of which he refused to let prospective investors and ‘experts’ look at closely or inquire about any technicalities relating to their workings. He subsequently would also find any number of excuses to relieve himself of any possibility of providing a convincing demonstration, despite being offered much publicity, serious government interest and large sums of money toward development.

It is easy to make the comparison with the case of Bath businessman James McCormick who was recently found guilty for selling £13 golf ball detectors to the British Military as Bomb detectors for £27,000 each. But Matthews' reluctance to give any technical explanations and few, far from convincing, demonstrations, draws similar questions toward the legitimacy of his inventions. Since none of his inventions seem to have gone into commercial development – and coupled with the fact that he was prickly and hopeless in business, becoming bankrupt on two occasions, Matthews has long been rendered to the obscurity of history. Though nearly all of his 'inventions' would be classed as dismal failures, there is the possibility that some of his work had some substance. There is still an open verdict toward the two indictments that can be made against him – namely...



That he was a man of great vision who developed ideas and inventions which were way ahead of the time.

That he was a man with fraudulent tendencies toward imaginative confidence tricks.

Bob G4BWB.

*Thanks — more from Bob next month*



**Where and What ??**

Do you know where these are in the city — and WHAT they are ?

Last month's winner, Martin G4EIA also won the first prize in the raffle draw ... so don't forget to have a go this month!

Drop me an email—results next month

[secretary@g3tkf.co.uk](mailto:secretary@g3tkf.co.uk)

## New Microwave record by Bristol group members

In July, as well as some HF kit for IOTA , Keith GW3TKH , Pete G4HQX, and Robin G3TKF, took gear for 5.7,10, 24 and 47GHz to Jersey .

On Friday 24th July Pete took a trip to Guernsey,IN89RK ,from where he worked Robin and Keith on 10 and 47Ghz a 37Km line of sight path back to Jersey. On 10Ghz they worked G4LDR,G4NNS,F6DKW. On 24Ghz they worked G4LDR/P at 154Km.They believe this was the first G - GJ contact on 24Ghz and probably the first 47Ghz GU - GJ contacts . It was also noted that this was a first for Robin G3TKF, operating anywhere near this part of the frequency spectrum !



Keith and Pete try their hand at IOTA



Keith more at home on 47Ghz



### Railways On the Air 26/27th September

**SBARC** are still looking for additional help to operate a station using the call GB0SDR (Somerset and Dorset Railway) from Midsomer Norton .

Please contact **Andy Jenner G7KNA** BEng CEng MICE [secretary@sbarc.co.uk](mailto:secretary@sbarc.co.uk)



Yaesu FT897D



## For Sale

HF 160 -10m 100watts

Plus 50/144/432Mhz

Includes the LDG Auto ATU

Built in PSU . A great radio !

**£550 or very near offer**

**Contact Shaun G0BKU : 07736 540071**

### Coming soon to the Bristol Group

Oct 26th : Chat night - by popular demand

Nov 30th : Stuart Robinson GW7HPW The \$50 satellite

December : No Meeting "On Air Night"

Bath and District ARC <http://badarc.webs.com/>

Chepstow and District ARC <http://www.gw4lwz.org.uk/>

Chippenham & DARC <http://www.g3vre.org.uk/archive.asp>

MidSARC [www.midsarc.org.uk/](http://www.midsarc.org.uk/)

North Bristol ARC <http://www.nbarc.org.uk/>

Shirehampton <http://www.shirehampton-arc.org.uk>

South Bristol ARC <http://www.sbarc.co.uk/calendar/>

Thornbury and South Gloucs ARC <http://tsgarc.uk/>

Trowbridge and District ARC <http://www.radioclubs.net/trowbridgedarc/events.php>

Any "Wanted" or "For Sales" ?

[Robin G3TKF](#)

RSGB Bristol Group Sec.

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