



## Chelmsford Amateur Radio Society Newsletter

### May Meeting

Tue 7-May-2024, 7:30pm  
Danbury Village Hall

### Multimode Digital Voice

By Oscar Wood 2E1HWE

Join us for our May Talk by Oscar Wood 2E1HWE on MMDVM – Multimode Digital Voice Modems.

A wide variety of these are available as either standalone or Raspberry-Pi add-ons.

The evening will include a demonstration, as well as an update on Oscar's new multimode repeater GB7IX near Southend, which is one of the first under the new Ofcom 5W ERP licence clause.

All welcome – refreshments on offer and our famous raffle too.



# CARS

## 7th May 7:30PM

Taking a look at

# MMDVM

MULTIMODE DIGITAL VOICE MODEM

A Talk by

## Oscar

## 2E1HWE

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## Club Diary

Tue 7-May-2024	CARS Meeting – Multimode Digital Voice – Oscar Wood 2E1HWE	Danbury Village Hall
Tue 4-Jun-2024	CARS Meeting – Brickworks practical & Social night	Danbury Village Hall
Tue 2-Jul-2024	CARS Meeting – Vintage/Military Radio talk – Iain Moffatt G0OZS	Danbury Village Hall

## Club Nets

CARS meets for talks/events on the first Tuesday of the month. The subsequent Tuesdays have club radio nets as follows below and dates listed on our calendar at [www.g0mwt.org.uk/main/events/categories/net/](http://www.g0mwt.org.uk/main/events/categories/net/) :-

- 2<sup>nd</sup> Tuesday in the Month – VHF**  
 The CARS VHF FM Net uses GB3DA from Danbury starting at 8pm (local).  
 GB3DA is 145.125MHz Input and 145.725MHz Output - and CTCSS-only (110.9Hz), 2min timeout  
 If for any reason GB3DA is not available then 145.375 Simplex will be used. Vertical aerials are best for this
- 3<sup>rd</sup> Tuesday in the Month - UHF**  
 The CARS UHF FM Net uses GB3ER from Danbury and starting at 8pm (local).  
 GB3ER is 434.675MHz Input and 433.075MHz Output - and is CTCSS-only  
 Vertical aerials are best.
- 4<sup>th</sup> Tuesday in the Month - HF**  
 The CARS 80m Net on "3756kHz" Night, SSB and starting at 8pm (local).  
 Horizontal aerials are best. The idea is to enable distant CARS Members to join the Net.
- 5<sup>th</sup> Tuesday in the Month (when there is one!) - MF**  
 This is the CARS Top Band Net on 1947/1950 kHz +/-QRM, LSB and starting at 8pm (local).  
 Horizontal aerials are usually used for this Net. A reminder - limit your power to a max of 30 Watts, please.

## Training & Morse Classes

If you are interested in these or other opportunities in 2024, please contact **John O'Connell M0JOC** our training coordinator and Exam Secretary. Please also spread the word to potential candidates!

**We can also accommodate exam-only sessions, or other fast-track courses at Danbury**

John can be contacted via [training2024@g0mwt.org.uk](mailto:training2024@g0mwt.org.uk) or 07868-004380

More info and other updates are at: [www.g0mwt.org.uk/training](http://www.g0mwt.org.uk/training) - and the updated RSGB Course Finder

**Online Morse Classes:** Thursday evenings at 7pm. Coordinated by Andy G0IBN who has on-air practice sessions and via Skype too... <https://join.skype.com/clsfKXKmlNvf>

- "Beginners" class will be starting on Thursday 4th April,
- Other courses available are an "Improvers" class, 10 to 15wpm:
- "Morse Development Group" 15wpm+ : "Advanced" class for the techniques of "Head copying"

- contact Andy via [morse2024@g0mwt.org.uk](mailto:morse2024@g0mwt.org.uk) - or feel free to enquire about the Essex CW Boot Camp

 Follow @TrainWithCARS

## April Meeting: Constructors Competition

The April meeting was our annual constructors competition – complete with generous cash prizes. The only entry rule is that it must be safe. Electronics metalwork or software are all valid entries.

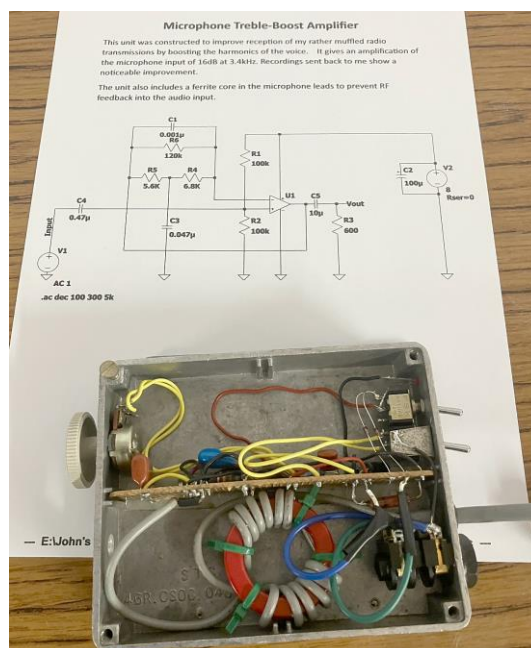
This year's entries are below and covered a wide variety from Raspberry-Pi SDR, to four pieces of wood!

Each entrant presented their creation, followed by preference voting that was collated by Paul G4PVM during the refreshment break – see next page for the results.

Fancy a prize? – get building now for next year! We also have a newcomers prize – to give you a chance.



**Integrated Monitor, Sound, Raspberry-Pi and RTL Dongle (all attached at the rear) – by Andy Tyler G1GKN**



**Microphone Treble Boost Amplifier by John Roe G4IMS**



**GB7ZP Duplexer/Filter re-build in a 1U screened 19" case - by Murray G6JYB**



**Four pieces of wood (two pairs laminated and varnished) for radio desk stands - by Martin Final G4TOO**

*And the winners were...*



**Winners:-**1<sup>st</sup> Andy G1GKN - £302<sup>nd</sup> John G4IMS - £203<sup>rd</sup> Martin G4TOO - £101<sup>st</sup> - Andy G1GKN (left)

– presented by Treasurer John G4IMS

2<sup>nd</sup> John G4IMS (right) – presented by Paul G4PVM3<sup>rd</sup> Martin G4TOO (right)

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**Congratulations !! – to Carlos & Murray**

The CARS training team were pleased to hear that **Carlos Conghos** had passed the RSGB Full Exam and is now M0WCE, Carlos expressed his gratitude for the Fast-track training we hold at Danbury to help candidates revise the more challenging aspect of the syllabus as well as exam style/technique.

WE can offer face-to-face revision for all three levels – contact John M0JOC – [training2024@g0mwt.org.uk](mailto:training2024@g0mwt.org.uk)

At the RSGB AGM it was announced that **Murray G6JYB** had been awarded the prestigious award of RSGB Life President for his spectrum and licensing work. Looking back, recipients have included Marconi's chief engineer Captain Peter Eckersley and a couple of previous Chelmsford members too!

<https://rsgb.org/main/about-us/rsgb-presidents/rsgb-life-vice-presidents/>

## Marconi Day Report – Saturday 27<sup>th</sup> April

CARS club call GX0MWT was registered as an official award station and operated with the kind permission of BAE Systems at Great Baddow, formerly the Marconi Research Centre.

**Operators:** Paul G4PVM, Andy G0IBN, John JOC and Gwyn G4FKH, supported by Andy G1GKN, Steve M0LCF and Murray G6JYB.

**Stations:** Three were in use, two on HF and one on VHF/UHF. HF contacts used four bands - 40, 20, 17, and 15m

Propagation conditions for this year's IMD were not good for transatlantic contacts, but a great effort still led to a significant QSO increase on last year.

In summary:

- **HF:** 165 total – 90 SSB and 75 CW
- **Countries:** 32 total (mainly European - Germany, Italy, France, Ukraine, Finland etc)
- **Best DX:** Japan and KM1CC (Cape Cod award station)
- **Antennas:** Hexbeam multiband for 10-20m, Dipole for 40m and Diamond X30 VHF/UHF
- **Radios:** Flex 6600 SDR and Icom 756  
- and FT7900 for local VHF/UHF

The Hexbeam antenna used on 10-20m →



**150<sup>th</sup> Birthday:** Guglielmo Marconi was born on 25th April 1874. International Marconi Day is celebrated every year on the Saturday closest to his birthday – and this year is the 150<sup>th</sup> anniversary! (1874-2024). A number of special event stations are marking the 150 anniversary...

You can still work CARS Special Event call for this, **GB9MWT**, until 20<sup>th</sup> May.

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