



Chelmsford Amateur Radio Society Newsletter

June Meeting

Tue 6-Jun-2023, 7:30pm
Danbury Village Hall

Essex Air Ambulance

By EHAAT

Coming up is our Tuesday June 6th meeting. This features a presentation on the work of the Essex & Herts Air Ambulance Trust (EHAAT – www.ehaat.org)

Expect a great insight into the work, operations and communications involved

Please do pop along and support this worthy cause.

CARS will also have a special presentation to EHAAT.

All welcome
– free raffle and refreshments.

Donations to Essex Air Ambulance



NB: Physical meeting – no Zoom

Volunteers Urgently Needed: For 'Do & Discover' Event on June 17/18th at Anglia Ruskin – See p4

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Club Diary

Tue 6-Jun-2023	Club Meeting: Essex Air Ambulance talk / presentation	Danbury Village Hall
Sat/Sun 17/18-June	Do & Discover at ARU – Volunteer Now!	Anglia Ruskin University

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/ :-

- **2nd 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
- **3rd 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.
- **4th 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.
- **5th 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

NEW - 2023 CARS Training 'fast-track' classes at Danbury:

- **Foundation** - Thu 20th, 27th July & 3rd Aug-2023 – Enquiries welcome
- **Intermediate/Full** - Thu 28th-Sept, 5th & 12th October 2023 – Enquiries welcome

If you are interested in these or other opportunities in 2023, 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, or fast-track courses at Danbury to assist with the Intermediate, Full and the new Direct-to-Full (D2F) exams that started in January-2023

John can be contacted via training2023@g0mwt.org.uk or 07868-004380

More info and other updates are at: www.g0mwt.org.uk/training

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>

- contact Andy via morse2023@g0mwt.org.uk - or feel free to enquire about the Essex CW Boot Camp

 Follow @TrainWithCARS

May Meeting: Practical Night #2

The May meeting was the second event based on CARS registration as a RSGB Brickworks club. The occasion proved to be popular for socialising etc whilst the practical topics included:-

- CW Software Demo (RufzXP, Morse Runner)
- On-line software define radio by Jim 2E0RMI
- Refreshments & Raffle

Jim Salmon 2E0RMI gave a demo on the on-line web software defined radio at the University of Twente in the Netherlands (<http://websdr.ewi.utwente.nl:8901/>). The system is currently composed of a "Mini-Whip" antenna, a homebuilt SDR board which samples the entire shortwave spectrum and sends all of this via a gigabit ethernet link to a PC, where a special version of the WebSDR server software processes it.



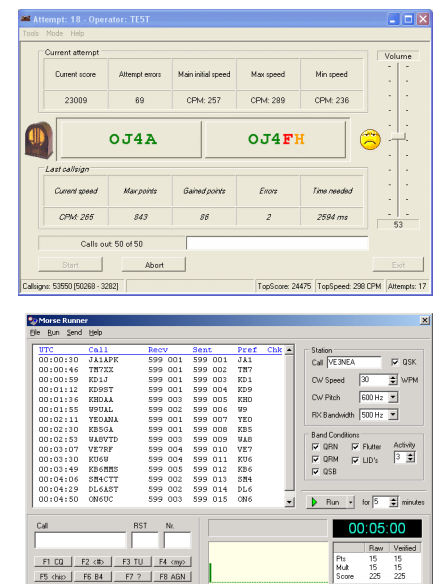
Jim tuned in to a variety of stations to show what the system could do including Radio Caroline on medium wave from Orford Ness, and the Russian "Buzzer" (UVB-76) on 4625 kHz. There followed an interesting debate about the "number stations" from the Cold War, which can still be found on the air today.

Paul G4PVM demo'd two free software programs which can be downloaded and used for CW practice:-

- **Rufzxp** was written by DL4MM. "Rufz" is the abbreviation of the German word "Rufzeichen-Hören", which means "listening to callsigns". The software sends 50 callsigns which you log on your computer. You choose the starting speed and, if you get the callsign correct it gets faster and, if you get it wrong it goes slower, until you find a comfortable speed. The software can be downloaded here: <https://www.rufzxp.net/> .
- **Morse Runner** was written by VE3NEA. It simulates a contest where you call CQ and log stations who respond. You can select what speed you want, and you can even add QRM, QRN and QSB, as well as "lids" (bad operators) causing interference. It can be downloaded from here: <http://www.dxatlas.com/MorseRunner/> .

Unfortunately, the web SDR prompted so much discussion we ran out of time for the quiz!

Never mind - we'll save it for next time.



Coronation Calls inc GR0MWT

During the first three weeks of the special call we made 767 QSOs (inc DUPEs) with 647 unique stations in 64 countries, from 80 to 6m, all CW. The call was also used for this month's club nets.

Conditions on the bands were "average". The higher bands were quiet with some Sporadic-E. Most activity was during the day so not many QSOs on the



lower bands. 86% of QSOs were with Europe. There was a steady stream of calls from prefix hunters chasing a rare new prefix.

DX worked Indonesia, Japan, Georgia, Azerbaijan, Uzbekistan, USA, Canada, Puerto Rico, India, Australia, Uruguay & Brazil.

We have made most QSOs with Italy (85), followed by Germany, Russia, Poland, Ukraine, Japan, Hungary, Spain, Croatia and Czech Rep.

One of the more interesting ones was: RI41POL on a research ship on an expedition to the north pole. Currently in grid LR46. Worked 20m CW. Op is RK1M.

Do & Discover Volunteers Required

Help visitors build/experience radio kits ! - on Saturday/Sunday June 17/18th at Anglia Ruskin – see below
Contact David De La Haye M0MBD rr12@rsgb.org.uk, or Murray G6JYB

cses
Chelmsford Science and Engineering Society

DO & DISCOVER
A weekend of fun experimental activities for all the family!

CITY CENTRE CHELMSFORD | 17 & 18 JUNE | 10AM – 4PM

a.r.u. Anglia Ruskin University

Anglia Ruskin University (ARU)
10-4 Sat 17th • 10-4 Sun 18th

Connecting Chelmsford
Discover how Chelmsford connected and changed the world • Hack the Meadows!

Make Your Own Radio
Crystal sets • FM receivers • Circuit labs
(PRE-BOOK VIA WEBSITE)

Brain Hub (Saturday only)
Dementia-friendly games • Neurofeedback technology (PRE-BOOK VIA WEBSITE)

Radio Drama Festival (Saturday evening – after event)
The finale of the Chelmsford Radio Drama Festival follows at 7:30pm on Saturday 17 June (PRE-BOOK VIA WEBSITE)

Meadows
Meadows Shopping Centre
11-4 Sat 17th • 11-3 Sun 18th

Raspberry Jam
Interactive demos • Live projections • AI music • Robots • Coding • Retro games

Hands-on Family Fun
Experiments • Challenges • Craft activities

Brain Hub (Sunday only)
Dementia-friendly games

Hearing Lab (Sunday only)
Hearing aid simulator • Create ear impressions

cses.org.uk/do-and-discover

CHELMSFORD CIVIC SOCIETY ESSEX CREATIVES REMAP STEM LEARNING Chelmsford Amateur Radio Society Neuro-Informed CHELMSFORD FESTIVAL

Online & Paper Exams at Danbury

CARS Intermediate/Full Fast-track Course-19F for a couple of candidates ran for three weeks over 16th, 23rd & 30th March with Murray G6JYB as lead trainer.

An exam session at Danbury (John M0JOC & David M0HBV) was then held on 18th May for our Intermediate trainee Carlos Conghos (who used the Testreach online system) along with a Foundation candidate (who preferred a real paper exam) - both were successful.

All four Exams - Foundation, Intermediate, Full and Direct-to-Full can be taken online with Remote Invigilators from the RSGB, using the Testreach system, or at Danbury Village Hall.

CARS can offer both online and paper exams at Danbury. Please contact John M0JOC for further details

Carlos after his Intermediate exam with John M0JOC (right)



Latest Course Dates - see full details at www.g0mwt.org.uk/training

- Foundation - Thu 20th, 27th July & 3rd Aug-2023
- Intermediate/Full - Thu 28th Sept, 5th & 12th October 2023

Sale/Free Items

We still have a few items left in our G3CVI-SK Sale. Pop along to a CARS meeting to pick them up!

Accessories

- BNOS low pass filter 6m filter. Part no. F50-L/U.
- CDE Model AR-30/AR-40 Solid state Direction Module Indicator (rotator controller).

Books (paper back unless stated) – free, but a donation would still be appreciated.

- Theory and Practice of Model Radio Control
- Handbook of Wireless Telegraphy
- Microwave Handbook Volumes 1 to 3 by MW Dixon G3PFR, RSGB 1994.
- Radio Communication Handbook volumes 1 & 2, RSGB 1976 (hard back)

Also Available

- Annual Sets of RadCom

General terms: CARS Members get first preference if demand is high; sold as seen; Buyer to collect
Enquiries to Paul G4PVM: g4pvm@g0mwt.org.uk

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