



Chelmsford Amateur Radio Society Newsletter

July Meeting

Tue 2-Jul-2019, 7:30-10:00pm
Oaklands Museum, Moulsham Street

Three Short Talks

By CARS Members

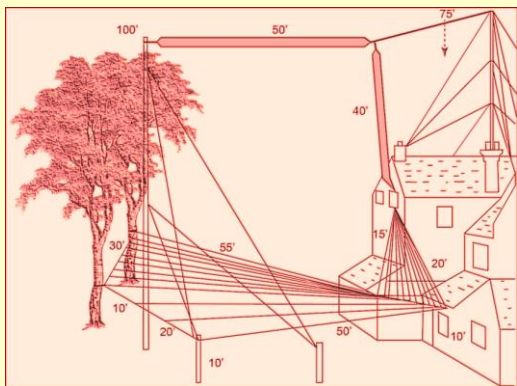
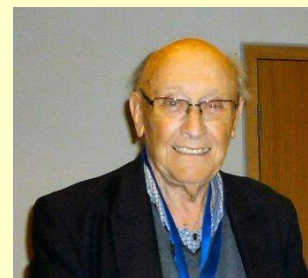
The July meeting features the CARS 'Three Short Talks' format for a real variety:-

- OFDM and All That – Phil Pearson G0UIB
- Wire Aerial Construction – Tony Gilbert G4YTG
- 100 Years of Amateur Antennas – Elaine Richards G4LFM

What is OFDM? We start with the basis for most modern datamodes (as well as LTE/DVB/DAB).

We then start an antenna tour with Tony G4YTG –

Finally we go back in time courtesy of a fascinating RSGB Archive presentation created by Elaine Richards, RadCom's editor G4LFM that Colin G0TRM has to hand.



Do pop along for what promises to be some entertaining and hands-on talks.

Note that another event at Oaklands runs till 7pm, so bear that in mind if arriving early.

The famous CARS Raffle and refreshments will feature too!

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Club Diary

Tue 2-Jul-2019	Three Short Talks	Chelmsford – Oaklands Museum, 7:30pm
Tue 6-Aug-2019	Constructors Competition – with cash prizes!	Danbury Village Hall, 7:30pm – not Oaklands!
Tue 3-Sep-2019	Life as a Radio Officer, Dave Ellis G4AJY	Chelmsford – Oaklands Museum, 7:30pm
Tue 1-Oct-2019	CARS AGM	Chelmsford – Oaklands Museum, 7:30pm

Club Nets

CARS meets for talks/events on the first Tuesday of the month. The subsequent Tuesdays have club radio nets as follows:-

- 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 & Exam Dates

Our training pages have sessions listed for Foundation, Intermediate and Advance.

The first half of 2019 has busy for Foundation and Intermediate training – see more info and dates online

Remember that the syllabus changes in Autumn 2019, so contact asap if you want an exam before that!

Our training manager Peter M0PSD is keen to hear from candidates for the courses, as well as any needing practicals or other help. We also have other Exam slots available

Course	Dates	Comment
Advance-23R	Thu Jul-11 th	Advance - with opportunities of mocks and others before

Contact: Peter Davies M0PSD, training2019@g0mwt.org.uk Web: www.g0mwt.org.uk/training

 Follow @TrainWithCARS

June Meeting: Beam Building

Dave Cutts M0TAZ who gave us the Datamodes talk in February, returned to CARS for something different - DIY Antennas. Dave will give a presentation and some small hardware demos on Beam Building.

Whilst full size HF beams did not fit in the room or his garden, Dave enjoys field day work and was keen to try something that wasn't possible at home.

He started with a 14 MHz Quad as it was easy to transport and low noise floor. Based on roach poles and a central plate (see pics).



His next project was a rather substantial 4-element Yagi on 21 MHz, as well as a 3-ele on 18 MHz— quite a handful. As discussed with the audience – some attention to detail is needed to get the right tube sizes that telescope snugly inside each other.

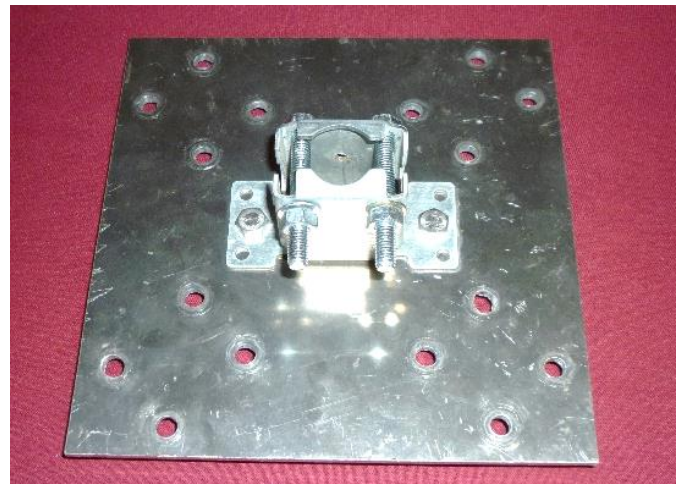


CONSTRUCTION HIGHLIGHTS

- 38MM BOOM SELECTED ONCE AGAIN
- STANDARD ELEMENT SUPPORTS
- BOOM BRACED WITH PAXOLIN
- RIGID CONSTRUCTION
- 5M

	30x2mm	25x2.00mm	20x1.5mm	16x1.5mm	Position
Ref	0.50m	1.35m	1.25m	1.165m	0m
Rad	0.50m	1.35m	1.25m	0.945m	2.19m
Dir	0.50m	1.35m	1.25m	0.675m	4.95m

Dave with one of his modest size Yagi's – and some tubing detail



3D Printed insulators and DIY brackets

David's approach for lightweight portable designs for field work did not need permanent guy ropes and heavy duty all-weather construction – so it was a little different – but the results on air were pretty good.

Dave has given a few links below for the design info.

Our thanks again for a well presented and entertaining talk!



Bob G4MDB with Chairman Elliot 2E0JSE drawing the raffle (Photo: John G8DET)

Useful Links

- DK7ZB antenna website: <https://www.qsl.net/dk7zb/start1.htm>
- YU7EF antenna page: <https://www.yu7ef.com/>
- Dave M0TAZ beam building projects: <http://m0taz.co.uk/antenna-projects/>

CARS Tabletop Sale

The annual CARS Table Top Sale returned to Danbury Village Hall on Monday June-17th. Following a lot of organising by Colin G0TRM and helpers, after the setup time, doors opened in the main hall at 7.30pm. Refreshments next door included the excellent tea and cakes from the kitchen team, whilst towards the end Bob G4MDB ran the prize raffle. Everything from collectible classics to real radios were on offer as well as some 'junk recycling'!



David M1DOZ on the ERG table – Chris G4BMW & Graham G7JYD looking at the G0IPU table



Cake!



More bargains

– Our thanks to all !

Training

Whilst the main courses have concluded CARS continue to take people thru practicals and exams up to the summer break.

Amongst the latest passes have been Jack M7JWH and James M7JDH who took their Intermediate on Thursday June-20th as they would have been away for the main exam session that will be on July 11th.



Jack and James – pleased with their Intermediate result!

Latest Pass!

Our latest success: Peter M0PSD was very pleased when on Wednesday June 26th we successfully used the online exam system at Advanced level for the first time

I feel very proud to tell you, we did our first on-line Advanced exam tonight. - Kevin 2E0FEQ. Passed!

Next up...

- Mock Exam – Thu July 4th
- Advance Exam – Thu Jul 11th

Clearance Items

Lorraine, John G8DET's daughter has been assisting with a clearout:-

I can now give away 30 x A4, 4 Ring folders between 1" and 2" with the odd larger one. All good condition – have binned all the tatty ones.

I also have two crates of mains electric light bulbs I do not want - to give away.

I also have a crate of RS Catalogues from 1975/5, 1988 and all Transistor & IC info about that time – is there any interest in them?



Yesteryear

The following was taken (in August 1995?) outside the former Marconi College site in Arbour Lane where CARS met for many years until 1997- after a lecture by Louis Varney G5RV of antenna fame.

John G8DET is in the middle: *"I feel a little funny - being the only one still alive!"* – John G8DET



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Newsletter and Archive: <http://www.g0mwt.org.uk/newsletter>