



# Chelmsford Amateur Radio Society Newsletter

## October Meeting

Tue 2-Oct-2018, 7:00-9:00pm  
Oaklands Museum, Moulsham Street

## Annual General Meeting

By CARS Members

October is AGM time!

There will be the annual reports from the Club's officers, the opportunity to hear about our progress over the year and the activities in which CARS took part. Voting will take place for members to choose both new and standing members of the Committee. Peter Davies M0PSD will be standing down as Chairman. Pauline Davies 2E0EUH will also be standing down as Membership Secretary. So please step forward!

**Presentations:** for 'The Amateur of the Year Award', certificates for the Construction Competition and the M1FDE Shield will be awarded to the winners during the meeting. In addition to reports and elections, there will be an opportunity for members to voice their suggestions for future events and overall running of the Society.

**Quiz:** After the break there will of course the usual much renowned CARS raffle, followed by a special quiz by Murray G6JYB! - where the Q+A will reveal some interesting stuff...

Thinking of joining the CARS committee? Would you like to help in planning the Club's future activities?

Are you good at helping organise public events? Do you have a 'special interest' you would like to introduce to CARS?

At the next meeting members will have the opportunity to stand for election and put their ideas into practice. Please contact any committee member or Secretary Colin G0TRM (before the day). original G3 call holders in the UK!



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**Club Diary**

Tue 2-Oct-2018	CARS AGM and after-break Quiz	Chelmsford – Oaklands Museum, 7:30pm
Mon 15-Oct-2018	Skills Night	Danbury 7:00pm
Thu 18-Oct-2018	Essex Repeater Group AGM	Danbury 7:30pm for 8pm start
Tue 6-Nov-2018	HF Propagation talk by Gwyn Williams G4FKH	Chelmsford – Oaklands Museum, 7:30pm
Mon 19-Nov-2018	Skills Night	Danbury 7:00pm

**Club Nets**

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

- 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 & Exam Dates**

Our training pages have the 2018 sessions listed for Foundation, Intermediate and Advance.

Our training manager Peter M0PSD is keen to hear from candidates for the 2018 courses, as well as any needing practicals or other help.

After the summer break In September we have our 38<sup>th</sup> Foundation course and Morse Classes will restart. A 6-wk fast track course will also cover Advance (with an exam slot on Dec-6).

Course	Dates	Comment
<b>Foundation-38</b>	Thu Sep-6 <sup>th</sup> – Oct-11 <sup>th</sup>	Concludes with Exam on Thu Oct 11 <sup>th</sup>
<b>EX-2, EX-3</b>	Oct-15, Nov-19	Extra Exam Sessions - Monday evenings
<b>Advance-22R</b>	Thu Oct-25 <sup>th</sup> – Dec 6 <sup>th</sup>	Advance course – other exams also available on Dec-6

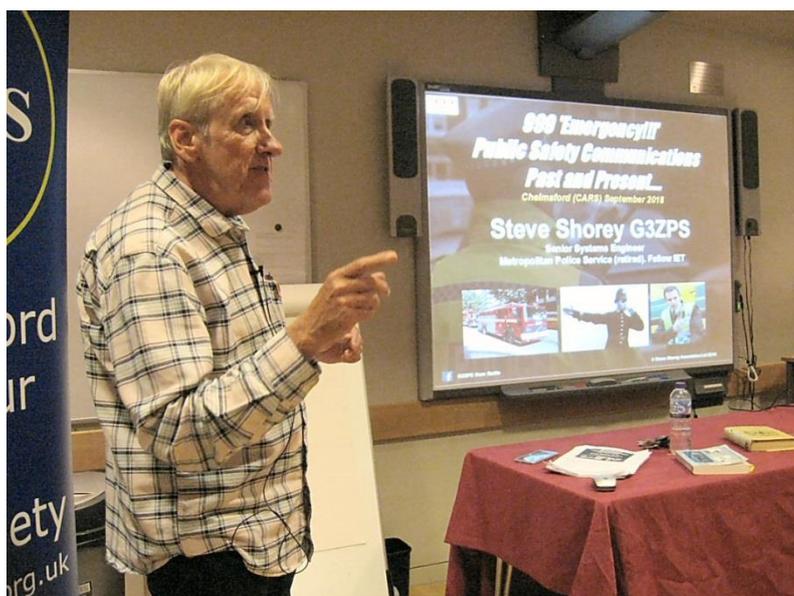
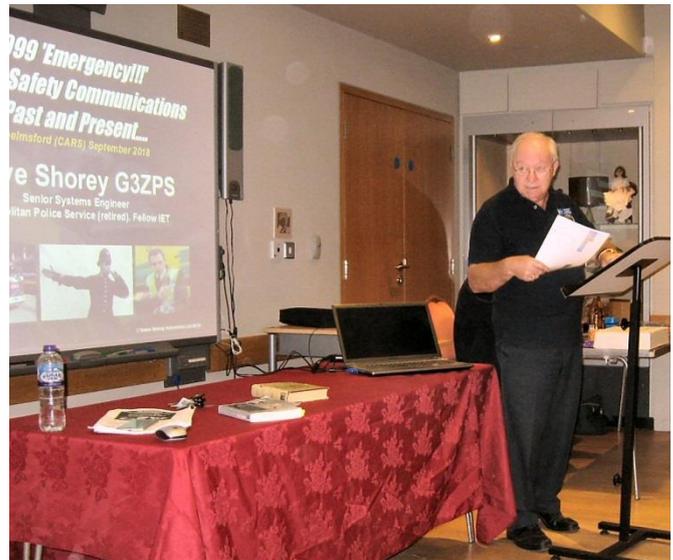
**Contact:** Peter Davies M0PSD, [training2018@g0mwt.org.uk](mailto:training2018@g0mwt.org.uk) Web: [www.g0mwt.org.uk/training](http://www.g0mwt.org.uk/training)

## September Meeting: Steve Shorey - 999 Comms

Steve introduced himself by telling us he was the youngest G3 when he obtained his licence at the early age of 16. He started his presentation by giving us an insight to the methods of communication needed if you needed to call for help of any kind.

Where did it start? Shouting HELP!! was a short range start off before electricity was involved. Then the ancients had Runners, Horse Riders, Drums, Beacons and Smoke. Next came flags and semaphore arms on prominent locations (line of sight), followed by homing pigeons.

He related all this to the police and how they could communicate with each other to give or get assistance, reminding us of Robert Peel, introducing Bobbies, Peelers, The Old Bill, and other popular names which lasted even to the present day. He asked how many of us remembered 'Dixon of Dock Green' on television, saying he did not think many of us were old enough!



Steve then described "The Beat System" where Policemen (Police Officers now) patrol a "Beat" being at set places at set time so that when you needed a Policeman you could wait till one came along. Before telephone boxes, the policeman would carry a rattle to call assistance and later a Whistle which was a standard issue and has been carried until 1969.

He had a nice picture of whistles through the ages and up to date. Certain members of other organisations also carried Police Whistles - Postmen, Bank couriers and any one carrying Money or valuables likely to need a policeman if attacked.

When the telephone was introduced police boxes were stationed at places on the beats with a flashing light on the top to be able to contact and communicate with the officer. These later became communication centres and some even as tiny police stations with temporary lockups for prisoners. These boxes were later able to be used by the public for emergency calls, free, as were the 999 calls from public Post Office telephone boxes (– or Whitehall 1212 for Scotland Yard).

Police cars were fitted with Radios using AM in the 1930s on 2MHz. but were very short range due to RF noises produced by vehicle ignition and all other electrical interference sources. John showed a picture of the ubiquitous EF50 valve, later used in comms equipment and helped to win the war for us. These valves were used by the police in car and base equipment in a VHF simplex system at the top of the broadcast FM band (90 -100 MHz). In the 1960s Pye produced a range of personal radios, at first separate Tx and Rx, but later combined (Pye pocket phone). At this time the Met were running 30 systems with three or four

channels and repeaters. This lasted in to the 1980's when it was moved out of the 100 MHz Band and used 5 repeaters on the same frequency.

In 1989 the Hillsborough disaster caused almost total failure of their systems with everyone trying to get through - public and police. The system went into overload, jamming all the channels. At this time Ambulance, Police and Fire were all sharing the same system. The problem was that traffic levels were different in different areas and the usage capacity was not known. Steve undertook the first traffic survey for the Met dividing the area into 500m blocks and recording usage over a period. For the first time the capacity required in each area was known, allowing the planning of channels to be allocated where the demand was. By 1995 the Met had 85 UHF working sites.

In 1999 systems started to go digital, allowing data and video to be transmitted over many of the networks. The Police took up TETRA (Trans-European Trunked Radio), also known as Airwave, uses TDMA which allows multiple users to share one time slot. Some 600 stations were used for the London Olympics. However in July-2005 the Tube and Bus Bomb Attack still overloaded the Met system for a while with hundreds of users in one small area attempting to get through.

More recently, contracts were placed for a 4G Emergency Service Network (ESN) with comprehensive data and voice services with EE using their Mobile Phone network separate from the Public use. In 2017 a £200M contract was given to Samsung which is still progressing.

Thanks Steve I am sure we all learned a lot about the difficulties and the solutions of the network of Emergency Services.

**Write up by Tony G4YTG, and Photos by John G8DET**



**Steve receiving his speaker's mug from Tony G4YTG**

## Skills Night Returns

Following our break for the summer, Skills Night returned on the 17<sup>th</sup> September with 42 attending. The evening featured DMR with Perry 2E0XPD, D-Star with Chris 2E0CUU, Jim Salmon 2E0RMI was demonstrating Echolink, Pauline 2E0EUH was manning the Table-top sale and CARS Membership renewals, and the EssexCW Team was their making contacts both home and abroad.

The evening also saw the first of our new Exam Sessions (EX1), where two Intermediate candidates took their exams and I am pleased to say passed. Well done to Jamie M6LZI and Craig M6OZC, and we all look forward to knowing what their new call signs are.

Intermediate Practical's were also taking place in the Hawkins Room for two visitors from Colchester. These are booked in for the next Exam Session (EX2) on the 15<sup>th</sup> October

To finish off we had a very entertaining Fun Quiz by Murray G6JYB

Also our many thanks goes to Ann and Myra for manning the refreshments

It was a really Interesting, Educational & Social Evening.



**Attendees at September skills**



**Rob M0KCP from EssexCW - and Jim 2E0RMI with Echolink**

cont'd..



**Practicals in the Hawkins Room**



**Some of the goodies on offer**

Why not join us on the next one on 15<sup>th</sup> October with another twist to the evening. We will keep the popular mini table top sale, but also have a Bring and Buy sale (10% of your sale price, maximum cost £3). Those little radio related items that stay on the shack shelf or kicking around the house, garage or shed that the wife is always moaning to get rid of. We will be happy to see them and also yourselves!

73s everybody

**Peter M0PSD and the Training Team**

## Training News

September brought the start of CARS Foundation Course-38 and the new extra monthly exam sessions



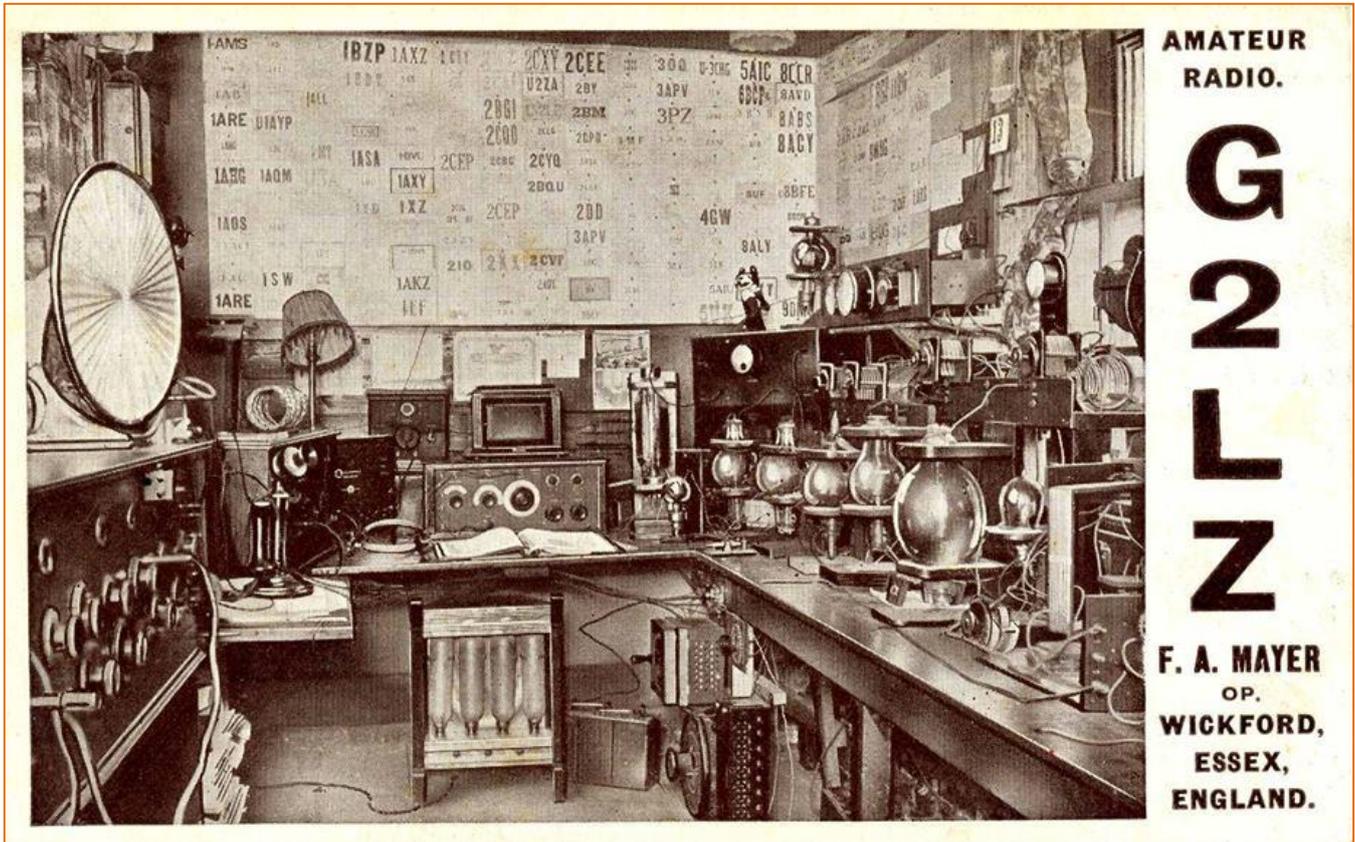
Jamie M6LZI and Craig M6OZC – with Peter - following the CARS-EX1 Intermediate exam session



Perry 2E0XPD giving the EMC talk to the Foundation Course

**From Yesteryear – G2LZ**

The RSGB has a weekly photo completion on its Facebook feed to help identify pictures they have in their archive. A recent one had a local Wickford, Essex connection...



How shacks have changed!...

...and if you do know anything about G2LZ above, then do let RSGB know

**Help Wanted !!...**

Remember the AGM is a key time where your help would be appreciated...



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