



# Chelmsford Amateur Radio Society

Established 1936

Affiliated to the RSGB Club Call Sign: G0MWT  
President: Carl Thomson, G3PEM Chairman: John Bowen G8DET  
Treasurer: Brian Thwaites G3CVI Vice Chairman Martyn Medcalf G1EFL



Newsletter No 544

Web Address: [www.g0mwt.org.uk](http://www.g0mwt.org.uk)

July 2011

## This Month's Meeting – Tuesday, 5<sup>th</sup> July, 7.30pm at the Marconi Club "Quality Table Top Sale by Colin Page, G0TRM"

CARS are holding their Quality Annual Table Top Sale in July this year.

It will be held at our normal meeting place, the Marconi Club in Beehive Lane, Chelmsford.

Sellers may arrive at 6.30pm to set up their Table(s) or after; but Buyers may only enter at 7.30pm. Raffle Tickets will be on sale before in the Hall where you can obtain a drink of coffee; tea etc from the machine or from the Licenced Bar. Entry is free (but please buy a Raffle ticket or two). Parking is free.

Tables are £3 each for CARS Non-Members (Free for CARS Members). If anyone wishes to book a table or two please contact me on 01245 223835 or by Email: [colinpage @ ukgateway.net](mailto:colinpage@ukgateway.net) before the above date.

CARS will have its now Famous Raffle with over 10 Prizes – only £1.00 per Ticket.

If you attend and you do not buy the great equipment on offer - enjoy the Social Aspects of the evening - have a good natter!

### Dates for your Diary

<b>Wed 6<sup>th</sup> July</b>	<b>Anglia TV Switchover Stage-1: BBC-2 Closes – RESCAN YOUR Freeview Receiver</b>
Tues 12, 19 & 26 July	CARS CW Net starts at 8pm on Tues 12 <sup>th</sup> ; FM & SSB Nets start at 8.30pm (Local)
Wed 13 <sup>th</sup> July	CARS Committee Meeting – Danbury Village Hall – 7.30pm. All welcome.
<b>Wed 20<sup>th</sup> July</b>	<b>Anglia TV Switchover Stage-2: Analogue closes - RESCAN YOUR Freeview Receiver</b>
Tues 2 <sup>nd</sup> August	CARS Meeting – Constructors Competition by CARS President Carl, G3PEM
Sunday Afternoons in August	CARS Operating from the Marconi Hut, Sandford Mill – GB100MWT, CW & SSB. Open to the Public, 2 to 5pm, Free to Enter and to Park.

To be/remain a Member of CARS, send a Cheque for £12 – Adult Membership (16s and under are FREE) to:- Mr Brian Thwaites, 118 Baddow Hall Crescent, Great Baddow, CHELMSFORD, CM2 7BU.  
If you would like a receipt, please enclose a stamped addressed envelope with a 2<sup>nd</sup> class stamp.

Thanks to Geoff, G7KLV for sending the postal Newsletters – could it go by E-Mail?  
Please inform Geoff, G7KLV by E-Mail of any changes to your callsign, postal or eMail address, etc. Email him on [g7klv@g0mwt.org.uk](mailto:g7klv@g0mwt.org.uk) Only by you sending Geoff your E-Mail address, can we ensure **WE** get it right!

Club Nets: Tuesdays 8.30pm: (2nd) GB3DA: (3rd) GB3ER: (4th) 1.947/50: (5th) 28.375. All MHz +/- QRM.  
**Net Controller for July is Colin, G0TRM. Thanks to Patrick, M0XAP who did it for June.**

## Last Month's Meeting:- "G5RV Evening" by CARS Members and Guests

Chairman John, G8DET opened the meeting by welcoming Members and Visitors. He played the introduction of a lecture Louis Varney, G5RV gave to the Norfolk Amateur Radio Society as a DVD which was obtained by Trevor, M5AKA from G4DYC and turned into a DVD by Robert.

CARS Life Fellow, Harry Heap, G5HF presented a personal story of Louis - both their Sons grew up together; both called Peter. He was born on 9th June 1911. He made his first Crystal Set when he was 11, obtained his "Artificial Aerial" Licence in 1922 as "ARV and his Full Amateur Licence in 1929. He joined Marconi's in Chelmsford in 1936 and founded the Chelmsford RSGB Group; now call the Chelmsford Amateur Radio Society in the same year.

He joined the Army in 1942 as a 2Lt in the Royal Signals, associated with MI6, SCU3 DF where he was responsible for setting up, maintenance and calibration of the DF network - soon promoted to Captain. Two years before he died he confided in Harry that he was a Secret Listener and that he held an Amateur Radio Callsign during the War – but he could say no more. Years later through Kew, Harry found out it was *Plan Flypaper* – they were looking for German stations or emergency transmissions from the Prisoner of War Camps – nothing is recorded that anything of significance was heard.

Harry played a taped account by John McCafferty of what it was like staffing a DF Hut and his involvement with Louis. Brian, G3CVI then described how with Jack Ridley he assisted Louis with the development of his famous aerial - before it was a published design. In 1946 Louis produced his famous "G5RV Aerial" and in 1952 designed the "Elizabethan Transmitter".

Louis held Amateur Radio Transmitting Licences in 55 Countries and visited 75 different Countries. Both David White from Bletchley and CARS Vice President, Charles, G0GJS met Louis when he was in South America.

Harry showed a photograph taken by Louis's Wife, Nelida in Louis's back garden in 1990. He was holding his 1927 Colpitts Oscillator TX, which gave out 4Watts CW. The valve is mounted upside-down at the rear without a valve base. This TX was used post-WWII by Louis on Field Days with a HRO Receiver in Chelmsford. In his 1980s he fell out of the tree behind him while pruning it. He was a Member of the Radio Society of Great Britain for 74 years - a personal record. He was also a Council Members for a number of years.

Louis died on 28th June 2000, aged 89 with Harry being one of the last persons to work him. On that same day the halyard of his G5RV Aerial at his house in Burgess Hill parted and the distant end of the aerial fell down to rest at half-mast.

Andy Tyler, G1GKN then projected a number of computer produced aerial plots of the G5RV Aerial. It basically radiates – but is never used by professionals!

After the Break the Raffle was drawn by Tanya, with Andy winning the Tim Wander "2MT Book".

CARS Aerial Expert, Tony G4YTG then echoed the results Andy had produced. Gwyn, G4FKH & Patrick, M0XAP gave their experience using G5RV Aerials at home.

CARS President projected beautiful diagrams of the Elizabethan Transmitter that Louis designed. Louis published the design in RSGB Bulletin in December 1951/January 1952 for a 75 watt TVI proof transmitter. The July 1953 bulletin contained the 150 watt transmitter; this was an upgrade to the previous 75 watt TX and was CW ONLY. Examination of the circuit showed that Louis had considered the transmission of Amplitude Modulation AM by bringing out a set of terminals so that a modulator of at least 60 watts audio power could be connected. This was the version made by David, G3JCM:-

The circuit changes to aid TVI suppression were;

- 1) Keying in cathode and control grid of V2 buffer amp.
- 2) Space wave reduced by good screening.
- 3) Improved inter stage coupling.
- 4) PA to antenna loading changed. Gave better harmonic suppression. Earlier version had link coupling.
- 5) Design of RF choke improved. Moved self-resonance.
- 6) Power control added.
- 7) Change bias voltage on clamp valve changes PA screen current.
- 8) Anti-parasitic resistors added to anode top caps. Similar to ferrite beads on base or drain leads on semiconductors. These circuit changes were used by other amateurs on their homebuilt equipment.

One built in 1952 by CARS Member Dave Bolwell as G3JCM was on display together with his Log Book from those days.

To finish off the evening Colin, G0TRM produced a PowerPoint Presentation of his G5RV Aerial and a squirrel who inspected it by climbing the tall support mast. Colin also showed a number of excellent photographs of Louis including one of him riding a horse. Somewhere there is a photograph of him Mobile while on a horse - do YOU have it? He showed Louis's Vibraplex Morse Key and Microphone (on loan from Sandford Mill Museum).

To sum up the Evening Harry recited a rhyme he wrote for Louis's meeting at Arbour Lane on 1995:-  
*They said to a Fellow called Louis; An All-Band Antenna is screwy; So he climbed up a tree; With a G5RV; And worked the World saying "Phooey".* A superb evening - pity the RSGB did not promote any of these events.

## John G8DET

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### GB5RVA Event - Sandford Mill, Science & Industry Museum

CARS operated GB5RVA (Anniversary) from The Marconi Hut at Sandford Mill on Thursday, 9th June 2011.

CARS Aerial expert constructed a 14MHz Aerial which he erected over Dr Bowles's office and fed with 100m of RG213 to the room adjacent to the SSB Station in the Marconi Hut. Gwyn operated this aerial using CW with Steve, G4ZUL & Andrew, G0IBN as operators. A total of 172 contacts were made throughout the World including the UAE.

The SSB station worked 100 Contacts mainly in the UK but also in Canada. Brian, G3CVI was the organiser of this station with operators which included Norman, M0FZW, John Yates, G1UZD, Patrick, M0XAP and Adrian from Wheathampstead while support was provided by Martyn, G1EFL, Colin, G0TRM, John G8DET and of course Dr Geoff Bowles, Keeper of the Museum.

Thanks to all who attended to make this another successful CARS event.

QSL Cards are already flooding in. Photographs are on the Net at: -

<http://www.g0mwt.org.uk/sandfordmill/gb5rvafold/gb5rva.htm>

The Mid Sussex Amateur Radio Society operated using CW and SSB from Louis's house with kind permission of Nelida with the famous callsign, G5RV. Even though both stations listened out for each other, conditions made it impossible for a QSO.

## John G8DET

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### This Month's Radio Sport (Contests) - All in BST (Local times)

<b>2/3 July</b>	VHF NFD – 24 Hours	<b>4 July</b>	RSGB Club – CW– 20:00 to 21:30hrs
<b>9/10 July</b>	IARU HF Championships – 24 hrs	<b>13 July</b>	RSGB Club – SSB – 20:00 to 21:30hrs
<b>17 July</b>	70MHz Trophy - 10:00 to 16:00 hrs Z.	<b>21 July</b>	RSGB Club – DATA – 20:00 to 21:30hrs
<b>30/31 July</b>	RSGB IOTA – 24 hrs		

For further information please email Steve G4ZUL [contests2011@g0mwt.org.uk](mailto:contests2011@g0mwt.org.uk)

## Steve, G4ZUL

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### CARS Propagation Forecast for July – Just for CARS

Prediction engines rely upon smoothed Sunspot Numbers and not day-to-day variations. That is why predictions carry the caveat that they are only correct for 50% of days! Gwyn tries to make his better!

<b>Asia: Dhahran</b>	around 20:00 on 18.1MHz for 84 percent of days, with poor signals.
<b>Oceania: Sydney</b>	around 20:00 on 7.0 MHz for 61 percent of days, with poor signals.
<b>Africa: Johannesburg</b>	around 18:00 on 10.1MHz for 85 percent of days, with poor signals.
<b>S. America: Rio de Janeiro</b>	around 22:00 on 10.1MHz for 84 percent of days, with poor signals.
<b>N. America: Saskatoon</b>	around 22:00 on 14.0MHz for 71 percent of days, with poor signals.

## Gwyn, G4FKH

## **The 22<sup>nd</sup> World Scout Jamboree**

The 22<sup>nd</sup> World Scout Jamboree will take place from 27<sup>th</sup> July to 7<sup>th</sup> August from Sweden. There is expected to be around 38,000 Scouts and a Service Team of 8,000.

The Scout radio frequencies vary but you can try the following:- 3.740 , 14.290, 21.360, 14.290.MHz. Echo Link will also be in use. **Node number 131124.**

The World Scout Net is on the 1<sup>st</sup> Saturday of the month.

## **Martyn. G1EFL**

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### **Fred Wright, G6FXM – Silent Key.**

Fred Wright, G6FXM's Celebration of Life and Funeral was held at Chelmsford Crematorium on Saturday, the 11<sup>th</sup> June. It was very well attended by family, friends and members of The Jazz Club, the Art Club and CARS; with the Chapel full and many left standing.

The entry music was Jazz; the Beethoven Piano Concerto after the tribute; and the exit music was by Chet Atkins and Mark Knopfler 'I'll see you in my Dreams' - all chosen by Fred himself for the ceremony.

The order of service contained three poems, two of which were read out and the third one, a very amusing one, written by Fred some years ago, was printed on the back. Fred's daughters Jane, Gillie and Katharine to the Miami Hotel invited all attendees for a Buffet and drinks.

We will, I am sure, miss his presence and his distinctive, infectious laugh.

## **Tony Gilbey G4YTG**

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### **CARS Training – Advance Course**

CARS is now taking names for Intermediate licensees wishing to take the Advance exam on Monday 5<sup>th</sup> December at Danbury. Starting on Thursday 27<sup>th</sup> October until December 1<sup>st</sup> there will be a 'fast-track' six-week revision course at Danbury. This does assume you are largely prepared and have also been studying at home. Fear not though! The course is intended to clarify, guide and prepare you.

More information at: <http://www.g0mwt.org.uk/training/> . Please register your interest with Clive G1EUC

### **RadCom in Electronic Format**

The RSGB magazine RadCom is now available to members in a convenient electronic format. It can be read on laptops and desktops but not iPads or mobile phones.

A link to the current issue can be found at <http://www.rsgb.org/radcom>

Previous issues (from July 2010) can be seen by changing the month and year in this URL:  
<http://www.rsgb.org/membersonly/radcom/view/2011/June>

## **Trevor M5AKA**

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### **RSGB Feedback Requested from All Radio Amateurs**

Do you want to comment on any aspect of the RSGB's policies or activities?

Write to the President and the Acting General Manager at [haveyoursay@rsgb.org.uk](mailto:haveyoursay@rsgb.org.uk)

Or complete the web form at <http://www.rsgb.org/haveyoursay/>

The Society looks forward to hearing from you.

## **Trevor M5AKA**

## President Jottings - July

The next major event will be the Constructors Competition scheduled for August – get your soldering irons out and finish that project.

Congratulations and our thanks to all the Club Members who made our last meeting such a success. There is such a range of talent in our Society and to celebrate one of the Clubs Founders in such fashion was absolutely fabulous.

I must remind you all that in September we will vote for our “Amateur of the Year”, and in order that I can prepare the ballot paper I require some nominations by close of our August meeting. Please put your thinking caps on, the nominee should have promoted the image of CARS with some activity or helped its members in some way. I live in hope that the nominee will not be a Committee Member; that is not to degrade the Committee who do an excellent job but to widen the choices on the ballot paper.

As I compose my input to the newsletter I am thinking about all of the changes that I have seen to our wonderful hobby since I was licenced fifty years ago on 14th August 1961. Certainly the transmission of the various modes has been made easier from what I shall call the mechanical generation of signals to the use of computer software to produce the signals. On voice transmissions from a 75/25 percentage split in AM to SSB it is now with a few exceptions all SSB. At least with the AM transmission a lot of people were introduced to Amateur Radio by listening to those funny voice transmissions on the bottom end of the medium wave band. I also would never imagined whilst operating CW on my homebuilt transmitter and BC348 receiver that 50 years later the RSGB RadCom would carry an article on optical communication such as that which appeared a couple of months ago. I wonder if anyone is brave enough to predict what article will appear in Rad Com August 2061, maybe a report on a 70 cm Earth to Mars QSO or Moon Base to Earth QSO!

I do hope that all our newly licensed members obtain as much enjoyment from our hobby as I have done.

## Carl, G3PEM. President

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### For Sale – John Dodson G0LSY - Silent Key Sale

Proceeds to Farleigh Hospice.

SGC Synthesised Low Power Transceiver SG2020	£250	Kenwood HF Transceiver TS-940S	£300
TRIO Station Monitor SM-200	£150	All above items boxed with handbooks	
YAESU External Speaker SP 767	£15		

Two Morse keys	£10 each.	DAIWA Electronic Keyer DK210	£15
Kent Morse Practice Oscillator	£15	Solartron Oscilloscope CX1441/3	£10

Apply to Geoff G7KLV at 01245 473822 or geoffrey.lovegrove @sky.com

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### For Sale – Fred, G2HNF Sale

ICOM IC275E 2m All Mode T/R with HB (home built) Power/VSWR Meter & desk mic. £120  
KENWOOD TS430S HF T/R with HB ATU & HB PSU with fist & ICOM desk mics. & earphones. £230  
MFJ HF/VHF Analyser MFJ-259B in leather case and PSU £60 HUSTLER Vertical Ant. 4BVT £100  
Handbooks & data for all above

WELZ SWR Meter £20, Kenwood LP Filter LF-130A £10, AE. Switch £5, DATONG Morse Tutor £10,  
YAESU Desk Mic. YD148 £10.

### For these bargains contact Fred [Monday –Thursday] on 01245- 265676

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#### And Finally:-

John G8DET edited this edition. Material by Trevor, M5AKA; Steve, G4ZUL; Gwyn, G4FKH; Carl G3PEM; Geoff, G7KLV, Murray G6JYB and Fred, G2HNF.

Closing date for the next Newsletter – Sat 23<sup>rd</sup> July.