



Chelmsford Amateur Radio Society

Established 1936

Affiliated to the RSGB Club Call Sign: G0MWT
President: Harry Heap G5HF Chairman: John Bowen G8DET
Treasurer: Brian Thwaites G3CVI Vice Chairman Martyn Medcalf G1EFL



Newsletter No 523

Web Address: www.g0mwt.org.uk

October 2009

This Month's Meeting – Tuesday, 6th October 7.30pm at the Marconi Club.

"Annual General Meeting" By CARS Members, For CARS Members!

It is amazing - it is time for the AGM again - is it that as one grows older the year goes quicker? This is the time for YOU to come and hear how we did during the year and for YOU to say what YOU would like to do and hear during the next year.

2008 to 2009 has been a very busy year, partly because we were allotted money from the Lottery "Awards for All" and partly because CARS Members have been so active promoting the hobby of Radio Amateurs.

CARS existing Committee try and make the AGM Meeting a pleasant affair and we hope this October Meeting will be so. The "Amateur of the Year" and the "M1FDE Trophy" will be awarded.

CARS will have its now famous Raffle with at least 10 prizes.

With the agreement of HM Government and an Essex Charity we are hoping to give all who book in a box containing an 11 and a 14Watt Economy Light Bulb manufactured by Osram for FREE.

CARS now famous Raffle will have its usual table top of Raffle Prizes - only £1 per Ticket.

After the AGM it is proposed to have a film show of a few photographs from the many events CARS attended during 2009. See yourself on the screen?

Dates for your Diary

Sunday, 27 th Sept	CARS Operating HF & VHF from Sandford Mill for Science & Discovery Day. Open to the Public 10am-5pm. Light refreshments available – Free to enter & Park.
Wednesday 30 th Sept	Retune all your Freeview boxes/TVs!! – See http://www.tvretune.co.uk/
Saturday, 3 rd October	BAE Systems Family Open Day 10am-2pm with CARS running GB70GB , by invitation.
Wednesday, 14 th Oct	CARS Committee Meeting – Danbury Village Hall – 7.30pm. All welcome.
Thursday, 15 th Oct	ERG AGM – Danbury Village Hall 7:30 for 8pm – Raffle, Refreshments, Surplus Items
Saturday 17 th Oct	CARS promoting Amateur Radio, 10 to 5pm at Great Baddow Library, near Chelmsford.
Tuesday, 3 rd Nov	CARS Meeting – The FLEX-5000A Software Defined Radio" by Gwyn Williams G4FKH.

To become 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 2nd 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 call-sign, postal or E-Mail address, etc. E-Mail him on 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) 145.375: (3rd) 28.375: (4th) 1.947: (5th) 145.375. All +/- QRM.

Net Controller for October - Harry, G5HF Thanks to Colin, G0TRM & Geoff, G3EDM for doing it in Sept.

Last Months Meeting:- "D-Star" by Murray G6JYB & Clive G1EUC.

Prior to the main event, votes for the "Amateur of the Year" were cast - the result to be announced at the AGM, next month. Norman, M0FZW then advised that the South Essex ARS has relocated to the Primary School, High Road, South Benfleet and the 25th SEARS Canvey Radio & Electronics Rally will be held Sunday 7th February 2010 at "The Paddocks Community Centre", Long Road, Canvey. And - CARS came 13th out of 26 in the last NFD Contest; and Martyn, showed CARS T-shirts.

Murray G6JYB gave a talk on D-STAR, (Digital Smart Technologies for Amateur Radio), which was originally developed by the Japanese Amateur Radio League. JARL. This covers two new modes - DV, (Digital Voice), VHF/UHF and DD - Digital Data on 23cm (upto 128kbs/s). In contrast older slow data modes such as Packet are quickly fading from use. Digital Voice uses less bandwidth than FM and is now well supported by Icom. The voice is coded with the Ambe codec, in a small hardware chip. Its detection threshold is lower than FM and reported ranges are greater; Also embedded are additional data including your callsign, repeater linking information, a user text message and even GPS coordinates!

Goals: JARL created DStar to Advance the hobby, use spectrum more effectively, and benefit from modest data being put under the voice signal, for programmable cross-banding of single repeaters, integration of GPS coordinates, voice quality preservation, internet linking and routing. A fully configured system with linked repeaters can identify a target area and route a QSO to a specific amateur anywhere in the World. Icom grasped this and has come up with hardware and software inc its own enhancements. Repeater and application software is evolving so we should see further developments. Other systems can integrate: A DV Dongle which allows encodes your voice one's computer to participate, for example. Amateur Radio: Emergency Communication software, texting etc. is becoming available.

Gaussian Minimum Shift Keying - GMSK is the modulation used and enables the narrowest possible bandwidth with barely any sidebands. 2,400bits/s is used for digital voice, plus 1,200b/s for error correction and the same for serial data, callsign, routing, text info. The small BW makes 12.5kHz spacing much easier in the 2m band. The system has a 3 to 6 dB advantage over FM. In the case of 23cm 128kb/s half duplex data services are a possibility inc graphics/webcams, though this

needs the UK 23cm bandplan to be modified to avoid the Primary Users.

Applications: Even without internet linking, normal local repeater chat is enhanced, as call/text data is displayed instantly. Emergency and tunnel comms (23cms) has led to Raynet interest. In the USA the system is being actively pursued for disaster comms: Watch this Space, as they say.

On show was the new Gateway for GB7ZP at Danbury. Internet linking will use Centos Linux, with Icom's G2 software, tnx to K5TIT, (yes really!) - a real self-training exercise for Murray! Configuration will allow caching of other users/repeater(s) depending in a database. A sort of local 'Yellow Pages' will thus build up in the system. Your radio call-sign will need to be registered on (preferably) your local repeater so Internet linking can be done consistently.

Gear available: Cheapest are hand-helds. The IC-91 FM set has an optional plug-in D-Star module; the IC-92D has it as standard. A DV dongle will allow participation via a PC/internet. Japanese Satoshi modules allow DIY experiments, notably GB7MH - a totally non-Icom repeater which uses a converted Tait 800. Note: '7' in the GB callsign means Data - '3' means FM analogue. D-STAR radios have 400 memories to store repeaters and routing settings. CARS has a larger Icom 2820 mobile, now used for training (courtesy of the Lottery) which is dual-band FM/DStar with dual diversity antennas to counter multipath fading and internal GPS receiver. Murray also has a DV Dongle - they need USB 2 ports.

The Bandplan! At the start of 2009 the 6, 2, 70 and 23cm bandplans had all their FM channels made DUAL MODE, ie FM/DV. Du to lack of space new 2m Repeaters need to be dual mode or switched over to DV, although making Repeaters reliably sense GMSK separate from FM is awkward. In 2m, the 600kHz split remains, but not the CTCSS. 70cm has a new 9MHz split, whilst 23 cm varies.

Calling Frequencies? Whilst the UK uses 144.6125, all Europe use 145.375. CARS kindly note! Around the UK some 50+ DStar Repeaters (some funded by Lottery Grants!) are functioning.

Local Repeaters:-

GB7ZP Danbury	430.4875 In / 439.4875 Out
GB7SS Hockley	430.7375 In / 439.7375 Out

Relevant websites:

<http://www.ukrepeater.net>

<http://dstar.rsgb.org>

<http://www.essexrepeatergroup.org.uk>

After the break and the Raffle was drawn the meeting hear a live demo of the audio quality of a DStar QSO between Clive G1EUC and G4ZPE (Zipy). A bit metallic but clearly R5. – Meanwhile a CARS netbook could see their callsigns appearing on the Internet status webpage of the UK DStar Reflector - which enables QSOs to be linked to several repeaters at once

Finally an SDR akin to that used very recently at Sandford Mill was also demonstrated...

Patrick, M0XAP and Murray, G6JYB.

WebSDR on 20m, 40m and 80m

As shown at the September CARS Meeting:-

The Amateur Radio Club, ETGD at the University of Twente (Holland) provide a WebSDR HF receiver for use by Radio Amateurs and listeners around the World to use freely. In contrast to other web-controlled receivers, this can be tuned by multiple users simultaneously, thanks to the use of a Software-Defined Radio.

Tuning is done either by clicking or dragging with the mouse on the waterfall display, by typing a frequency, or by using the up/down buttons. The bandwidth can be changed by clicking the appropriate buttons, and by "dragging" the edges of the yellow pass-band indicator.

To use the WebSDR HF radio receiver go to: - <http://websdr.ewi.utwente.nl:8901/>

More WebSDRs at <http://www.websdr.org/>

PA3FWM's Software Defined Radio page: - <http://wwwhome.cs.utwente.nl/~ptdeboer/ham/sdr/>

Murray, G6JYB and Trevor, M5AKA

CARS Operating and Promoting Amateur Radio.

Sandford Mill: Sunday 27th Sept, 10am-5pm. Science & Discovery Day which is open to the public is the last Open Day at Sandford Mill for 2009.

The Marconi Hut will be used for HF with computer logging, whilst Mark, MOIEO will have his white caravan parked near the Barn for VHF & UHF.

As on the 9th August there will be a SDR demonstration in the Marconi Hut provided by Murray, G6JYB & John, G8DET using the new Lottery acquisitions.

Please take part with this event – give your name to Brian, G3CVI at the September Meeting.

Sandford Mill Pictures:

<http://www.g0mwt.org.uk/sandfordmill/sandford-2009-08/sandford-2009-08.htm>

CARS Operating A Very Special Event Station: BAE Systems Great Baddow, 3rd October.

GB70GB is a Special Special-Event callsign issued by Ofcom-UK for the 70th anniversary of the opening of the Research Centre at Great Baddow - home to what was originally Marconi's Research Laboratories; and also later on home to famous staff including Spycatcher author (Peter Wright) and Chris Cockrell (Hovercraft inventor). A special amateur station will be operating on Saturday October 3rd

Opened just before the outbreak of WWII its 47 acres were immediately camouflaged by nets and painted roads to protect it against air raids (unlike the Marconi factory at New St in central Chelmsford which did get bombed) where it was home to strategic wartime magnetron and quartz crystal production.

Baddow is also home to the last surviving fully-intact 360ft Chain Home radar mast from the Battle of Britain - itself coming up to its own anniversary on 26th Feb 2010 (75th anniversary of the Daventry Experiment by Watson-Watt)

Pre-registered Visitors on Oct-3 will see a series of exhibits on Baddow's history and technology from turn of the century Marconi heritage right up to present day innovations at what is now known as BAE Systems Advanced Technology Centre.

More details of HF operation/frequencies will be confirmed nearer the time

More about the Great Baddow Mast:- http://www.chelmsford.gov.uk/media/pdf/7/m/Great_Baddow_Mast_A4.pdf

Murray, G6JYB

October Radio Sport (Contests)

Oct-3: 1.2-2.3GHz Trophy - 14:00 to 22:00hrs
Oct-3/4: 432MHz to 248GHz IARU - 24hrs
Oct-4: RSGB 21/28MHz - 07:00 to 19:00 hrs
Oct-4: Oceania DX - SSB - 24hrs
Oct-8: 80m Club Sprint - CW - 19:00 to 20:30 hrs
Oct-10/11: Oceania DX - CW - 24hrs
Oct-11: Second 50MHz - 09:00 to 12:00
Oct-21: 80m Club Sprint - SSB - 19:00-20:30 hrs
Oct-24/25: CQWDX - SSB - 24 hours
For further information please email Steve G4ZUL contests2009@g0mwt.org.uk

Contest Results

We did well in the CW Sprint! - We came 8th!!

If you haven't tried it you should. Confusing at first, with the help of SD it becomes quite easy. It has the equal opportunities feeling because the boys with the big aereals cannot dominate the one frequency, they have to move after every contact. Where were you all on the SSB sprint, as far as I can see (and I still haven't put my log of 38 in yet) we have no one from the Club??? CW I can understand, but SSB??? There must be someone who can give us a few points??

Andy, G0IBN

CARS Operating GB2TAM from Thorpe Abbots Museum, Diss, Sept 11-13

Thanks to Mark Sanderson, M0IEO, CARS was operating GB2TAM from the Thorpe Abbots 100th Bomb Group Memorial Museum, Common Road, Dickleburgh, Diss, Norfolk, IP21 4PH. Tel: 01379 740708. It is about one hour from Chelmsford, off the A140 to Norwich.

An advanced party headed by Mark, M0IEO and John, 2E0NNQ arrived on Friday, Sept-11 and was shown the operating position by Carol Batley.

Saturday 12th September.

After a breakfast consisting of a good old English fry up, John and I were in the field at the back of the caravan to begin setting up the antennas for the weekend. We were going to be using a G5RV for 20, 40, 80m and a long wire for the remaining HF bands, our usual co-linear antenna at the top of the 12m mast for 2m FM and a 5-element beam for 2m SSB. It was forecast to be a scorcher of a day and we were not disappointed. Carol Batley arrived at 08:30 and chatted with us about what we had set up.

At 09:30 Brian, G3CVI arrived. We connected my Kenwood TS480 SAT to the G5RV via a linear amplifier which was kindly loaned to us by Clive (G1EUC). With radio and amp tuned to the G5RV, Brian was up and running and with a 400 Watt signal was working into Malta to the station of 9H3YM with a 5/9+ 10db signal on 20m. Unfortunately it was the weekend of the CQ Europe Contest and getting contacts on 20m was going to be hard work as the Contesters were only interested in getting a signal report and Contest number before moving on. With that in mind we decided to concentrate on the 40 and 80m bands where we were working mostly UK stations and

“Churches on the Air” day. These proved to be a wealth of contacts and Brian was in his element.

By 10:30 we had the 2m stations up and running and with John working 2m SSB we had a contact with the station of PA5MS in Holland using 25W. John then worked a combination of 2m FM and SSB for the day contacting stations all over Norfolk and Suffolk. Brian left us for the day at 15:30 having worked just about everything there was to work on 80 and 40m.

At 16:00 (15:00 UTC) it was time to try for the station of K5DD in New Mexico to see if we could make contact with the 100th Bomb Group reunion, the whole point of the weekend, after an hour of calling out it was obvious that we were not going to be able to make contact at that time. It was to be the only disappointment of the weekend though.

Saturday evening was to prove to be the radio equivalent heaven, after we had eaten, we went back to the radios, HF was not worth working as the Contesters had migrated down to 40 and 80m as 20 had closed down for the night so John and I concentrated on 2m FM. We came on the band just as the back end of a lift on 2m and we were able to work stations as far away as Manchester, Derby, Milton Keynes, Stratford on Avon and central Kent with plenty of stations in between. We even managed a QSO with M0GWS in Braintree, Essex and an old friend of mine in Kent, M0RAY in Sittingbourne. John and I finally shut the radios down at midnight and wandered outside for a stretch and to take the night air and were greeted with one of the best views of the stars I have ever seen. A cloudless sky with the nearest light pollution at least 5 miles away, you could see the ISS passing over and even see the Milky Way. We spent about half an hour looking at the stars before turning in for the night having had one of the best days of radio I have had in a long time.

Sunday 13th September.

The day dawned cloudy and cold which was a total contrast to the previous day, there was talk of rain coming in the afternoon. GB2TAM was on the air by 09:00 and little did we know that it would be such a busy day. Brian returned at 09:30 to work his magic on the HF set and we were soon joined by Norman, M0FZW; Peter, G4OAD and Anne, M6ATE. Next to arrive was John, G8DET, talked in on 2m mobile by John, 2E0NNQ. Between them they worked tirelessly on the radios to make as many contacts as they could. We were still faced with the Contest in Europe on 20m so again worked on mainly 80, 40 and 2m.

At 10:30 I was phoned by Bob, G0BXP at Rougham airfield who asked for a sked on 80m at 11:30. Rougham is another WWII airfield, which is still used as a centre for light aircraft and gliders and is also home to the call sign GB0RTM. We made contact with Bob and spent 15 minutes chatting and telling him about our station and finding out about the station they were running. We also chatted to Terry under his own call sign of G1UGH who was with Bob at Rougham. After the sked Bob and Terry came down to Thorpe Abbots to meet us and spent about two hours looking round the site and chatting with us. Another visitor to the station was Ian, G0YAP who lives locally. Ian was pleased to see us operating at Thorpe Abbots as he had tried to set up a station there himself but due to lack of support had found that it was too demanding on his time, and having young children had to give up. Ian asked that if we were to operate from Thorpe Abbots again next year that we let him know, as he would love to work along side us. Ian, you can consider that a date and we will be in touch.

Contacts were harder fought but we worked into Orkney in Scotland, OE8PCK in Austria, G14CBG in Northern Ireland just to name a few. On VHF we worked ON4ATA in Belgium, M0TTB in Watford. Peter (G4OAD) tried working CW for a while on 20m but to be honest, the band was full with Contesters who were showing little interest in our little station but it was a valiant effort and well worth trying.

All too soon it was 16:00hrs and we had to think about closing down the station, but there was one last treat in store for us, just as we were beginning to break the kit down we were treated to a flypast by a Mustang fighter. The pilot brought her in low and fast over the control tower for the first pass and then banked round and came back at treetop height over the car park and directly over our heads at no more than 60 feet for the second pass. The sound of the Rolls Merlin engine and the sight of the Mustang fully resplendent in authentic livery was a sight I will never forget. As is always the case my camera was in its case in the caravan but Norman, M0FZW and John, G8DET managed to get some photos and I am sure these will find their way onto the CARS web page in due course.

With help from Norman and John, G8DET we soon had the antennas down and ready to stow. By 18:30, John, 2E0NNQ and I had the rest of the kit packed and ready to roll.

All too soon we were rolling down the perimeter track heading for home but I did stop for a minute on the way to wonder what must have gone

through the minds of those brave men of the 100th Bomb Group as they taxied their B17 bombers down that same concrete strip 65 years ago, and to thank the 753 men who gave their lives so that we could enjoy the freedom we have today.

As always there are a lot of "Thank You's" to be made to the people who made GB2TAM possible and without whose help I would have had a much harder job. To Carol and Ron Batley of Thorpe Abbots and their Staff for making us feel welcome, and for allowing the event to take place. To John, G8DET and Patrick M0XAP for all the help and guidance in setting up the event and to Trevor M5AKA for the help with publicising the event in the press. To Martin G1EFL, Chris G0IPU, John 2E0NNQ and Clive G1EUC for the loan of equipment for the station. To my wife Belinda for the endless hours at the computer designing and printing literature and QSL cards and for supporting the venture from the start.

That just leaves the operating team, without them the whole weekend would have come to a sticky end without a mic being keyed. To John 2E0NNQ who was behind me all the way and was there from the time I left home to the time we returned, Brian G3CVI who was there for both days to help operate and set up on the Saturday, to Norman M0FZW who was there all day on Sunday and provided transport for two of the team, to Peter G4OAD and Anne M6ATE who came on Sunday and operated and to John G8DET who spent Sunday on station and met and greeted visitors.

To all of you I offer my heartfelt thanks for the work and support you have given. Thanks also must go to the many amateur radio visitors who took the time to come and visit us at Thorpe Abbots and to all the stations that worked the station.

73 de Mark, M0IEO.

CARS Web Site for photos: -
<http://www.g0mwt.org.uk/events/thorpe-abbotts-2009/>

100th Bomb Group:
<http://100thbg.com/>

100th Bomb Group Thorpe Abbots Museum
<http://www.100bgmus.org.uk/>

100th Bomb Group Memorial Museum
<http://www.aeroflight.co.uk/mus/uk/1-b/100thmus.htm>

Mark, M0IEO & Trevor, M5AKA

Speed up your Broadband (2nd Mention)

The BT i-Plate has great potential for improving your broadband speed, typically by 1.5Mbps

Ivan Rush, G4VAD reports

"I note that in the newsletter you advise people who wish to fit an i-Plate to improve broadband performance to get BT to change the main BT socket if they do not have the modern one. My BT socket is an old type that will not take the i-plate so I picked up the information via Google that all you need to do is to buy a new BT type socket for about £7 on the internet. The only difference being that it does not have the BT logo on it. I think that is a much cheaper solution to the problem.

The information warns of the dreadful consequences of disconnecting the old BT socket and replacing it with the new one, so it suggests wiring it up with a lead using just pins 2 and 5 and plugging into the old BT socket. The i-Plate then will plug into the new socket which you then treat as though it was the BT socket.

My internet speed has gone up from about 2.5MPS to over 4 MPS". - Thank you - Ivan.

Brian Andrews, G4CTS reports that his "New BT Openreach sockets has this built in and gave him a considerable speed increase".

Pictures and more info on the BT Shop site at: <http://www.shop.bt.com/products/BT-I-Plate-58LT.html>

You can buy one for about £7 inc postage.

A video showing one being fitted is at <http://www.thinkbroadband.com/videos/iplate-installation.html>

Ivan, G4VAD & Brian, G4CTS

Development of Mobile Phone by Chelmsford Radio Amateurs

The vintage BBC TV Tomorrows World clips now available on the web contains one that shows the results of the pioneering work of Chelmsford Radio Amateurs who developed one of the early mobile phones 30 years ago this year.

The base station for a mobile telephone system was developed by Chelmsford Radio Amateur, Lew Schnurr, K0BUO/G5AAN (now Prof Lew and G0AAN). The late Arthur Butcher, G3KPJ worked on the project in 1979 at the Chelmer Institute, formerly the Mid-Essex Technical College, Victoria Road South, Chelmsford.

CARS Vice President, Geoff Mills, G3EDM was also involved, but in modesty he now says "I did not do a lot but knew all about it as I was in charge of the Department at that time". Geoff used to work in the Design Group of British Post Office, Headquarters, London on Telephony.

The mobile part of the system used a modified Amateur Radio 2m portable FM transceiver running half-duplex on channels in the 140 and 153 MHz bands using an experimental licence. From the portable FM transceiver it was possible to both make and receive telephone calls. In those days the telephone network used a pulse dialling system, so when a number was dialled the carrier of the transceiver was pulsed on and off.

This system was developed many years before the mobile (cell) phone networks were created and it was featured on the BBC TV programme "Tomorrows World" broadcast on 13th Sept, 1979.

Watch the Tomorrows World Video, partly recorded in Danbury Park near Chelmsford, at

<http://www.bbc.co.uk/archive/tomorrowsworld/8018.shtml?all=2&id=8018>

The picture on the CARS Web Site shows the late Arthur Butcher, G3KPJ at the Chelmer Institute (Mid-Essex Technical College, now Anglia Ruskin University) with the base station for mobile telephone system.

"Mobile Phone" Memories

The Chelmsford Mobile phone clip brought back memories for Ken Parkes, G18AIR who enjoyed using that rig back in the '70's. He writes:

"Just to say how much I enjoy seeing the clip thanks for the link. The set that they had the dial-up hand-set attached to was the Yaesu FT202 which was a 1 watt FM handheld with 6 switchable crystal controlled channels. I do remember it well as that was my first portable rig which I bought to go on a walking weekend in Wales".

Thanks to Trevor, M5AKA for reminding us of this event

PS If you scroll down the listings for Tomorrow's World, there is an interesting article about "The Man Who Speaks Morse", well worth a look, and I wish I had his memory for Morse!

Mark, M0IEO

Simon Dee, First Voice of Caroline Dies.

Legendary Radio Caroline DJ Simon Dee has passed away on August 29th from bone cancer at the age of 74. His real name was Cyril Nicholas Henty-Dodd, and he was the first voice to be heard on the successfully offshore station Radio Caroline in 1964. There are many Simon Dee videos on YouTube among them are: -

Simon Dee (1935-2009)

<http://www.youtube.com/watch?v=2uWcKy8L5Zo>

Simon Dee Interview with Joan Bakewell

<http://www.youtube.com/watch?v=TrZdDBSc4TQ>

The Simon Dee story Channel 4 TV

<http://www.youtube.com/watch?v=aaWI-aHBpE0>

BBC News - TV chat show star Simon Dee dies

<http://news.bbc.co.uk/1/hi/entertainment/8229429.stm>

Radio Caroline

<http://www.radiocaroline.co.uk/Mobile>

Offshore Radio

<http://www.offshoreradio.co.uk/>

Trevor, M5AKA

3G Phone Signal Strength (2nd Time)

Thanks to the Pirate Radio Station there is a very good reference to the Signal Strengths one can expect with your Mobile Telephone and Dongle for your computer. Click on

http://www.radiocaroline.co.uk/#mobile_listening.html

Cursor down to the bottom of the page to cut the chase but the article is also worth reading.

John G8DET.

Training – Foundation Course: Sept-Oct

CARS run courses for all three levels. A fast-track Revision Course starts on November 12th for the "Advanced" exam coming up on 7th December.

The next Foundation Course (CARS 21st !) starts after Xmas on 14th January 2010.

If you would like to attend either, please contact Clive G1EUC below.

More details are on our Training page: -

<http://www.g0mwt.org.uk/training>

Tel: 01245-224577 Mob: 07860-418835

E-mail: training2009@g0mwt.org.uk

Essex Repeater Group AGM – Oct-15th

Thursday 15th October at 7:30 for 8pm start is this years Repeater Group AGM at Danbury Village Hall. As usual the meeting is an excellent opportunity to renew yours Subs, support the repeaters and hear more about how both the FM and the new DStar systems are progressing. Free refreshments, surplus kit and a raffle are all in prospect, as well as the chance to socialise.

Do come along!

Murray G6JYB, ERG Secretary

CARS Net – 70cm Proposal

Following a comment by Peter Chadwick re 'Use or Loose', may I suggest that the Club run a 70cm Net on the 5th Tuesday of each Month when it occurs, bearing in mind some Members do not have 70cm. The Braintree Club does the same but on Mondays using their local Repeater. Ideas, comments, criticisms etc, please re 'Simplex' versus the 'Danbury GB3ER Repeater'. One obvious point is that using the Repeater means Vertical Polarisation; I think though that this would apply to most participants anyway.

Patrick, M0XAP.

Sponsorship Results – James, 2E1GUA

I did the "Cycle for Life" for Farleigh Hospice on Sunday, 13th September and rode 50km on my bike - I raised £86.

Thanks to all CARS Members who sponsored me.

James, 2E1GUA.

For Sale – Radio Equipment.

Kenwood, Trio TS130S 100w. 12volt HF Transceiver with matching 240v. PS30 power supply. £105.

The latest RadCom shows one for sale for £195. Ivan's must be a bargain, so reports Mark, M0IEO.

The Buyers Guide to Amateur Radio 1986 on p283 by Angus McKenzie G3OSS:-

Main shortcoming is lack of 1.8MHz band.

"Although not a particularly good performer it works well in the context of mobile operation, for which it was primarily designed. A good rig in its day showing some excellent ergonomic design."

Quote by Geoff, G7KLV.

Azden PCS-6000 25 watt 2m. transceiver complete with 7/8 mobile antenna. £45.

Two new Sprague type 36DX Capacitors 48000uF 50v. DC. Free to a good home.

Ivan Rush 01277 226437

E-Mail ivan@ir.eclipse.co.uk

For Sale – Transceiver by a SWL & CBer.

I live in Rainham, Kent and have a Kenwood TS-850S HF Transceiver for sell. It is in good condition and receives and transmits perfectly.

Comes in original box, with large, heavy power supply, Microphone and extra filters, etc. £350.

Ben Gransden bengransden@yahoo.co.uk

For Sale – Estate Car

Volvo V40, registered 2003, one careful owner. Automatic, 1.8 litre engine, MOT until end of May 2010. Winter pack, that is to say heated front seats, headlamp wipers and fog lamps.

- Metallic gold paint.
- Carpets as new.
- Only 36,000 miles in six years.
- Serviced by Volvo each year.

Offers in region of £4,000. (Cost £18,000 new)

Geoff, G3EDM. Tel 01245 223494.

gmillsg3edm@onetel.com

For Sale – Radio Transceiver.

American TenTec Omni VI HF Transceiver (160 through to 10m), FM, FSK, SSB, CW.

Offers in the region of £600

Geoff, G3EDM. Tel 01245 223494.

gmillsg3edm@onetel.com

For Sale – Norton Anti-Virus

Due to a mix-up on the Internet I ended up buying TWO copies of Norton!

I now have a Brand New (not opened) copy of Norton AntiVirus 2009 with Antispyware for ONE computer for Sale.

Its been advertised for £45 but mine is only £20.

Dave Bolwell, G3JCM.

Tel 01245 223591. (Danbury).

For Sale – PSU.

Alinco DM-330MW 25-30A Power Supply Unit. Immac condx, manual, boxed, lead. £50

Contact Dick - g4djc@yahoo.co.uk

Compact Fluorescent Light Bulbs.

As last month CARS will be giving away a box of 11 and a 14 Watt GLS (Bayonet) Compact Bulb – For FREE!

These are manufactured by Osram and are brand new. They are quite robust and are rated with a Colour Temperature of the traditional 2,700 degrees. Some people describe this as being “a little yellow” compared with the traditional hot wire bulb. They cannot be “dimmed”.

A brighter Compact Bulb has been imported by John, G8DET from Germany by “Androv” and come in a range of sizes. 23 and 32 Watt have been purchased and are rated with a Colour Temperature of 6,000 degrees. This is described a “Daylight at mid-day” – very bright and white.

They have a number of drawbacks. They are very expensive. They are very brittle. They are a spiral tube which cannot be held to insert the bulb into its fitting – the fragile glass cracks! I know! They cannot be “dimmed”.

<http://www.androv.com>” but it is in English. They are delivered by UPS.

Norman, M0FZW and John G8DET.

CARS Web Site – Counters.

Who has noticed the Web Site has two new “hit” Counters. The “normal” one now seems more reliable than the original one and this has recently been joined by a “Flag Counter”.

John, G8DET

And Finally:-

John G8DET edited this edition.

Material by; Murray G6JYB, Trevor M5AKA, Steve G4ZUL, Clive, G1EUC & Ivan, G4VAD; Brain, G4CTS; Geoff, G3EDM, Mark, M0IEO, Patrick, M0XAP, Norman, M0FZW, Andy, G0IBN David, G3JCM & Ben, SWL.

Items for the next Newsletter, including your experiences with your latest rig or antenna, tips on working DX or your latest project, to be sent to the editor@g0mwt.org.uk by Saturday, October 24th.