

# CHELMSFORD AMATEUR RADIO SOCIETY

NEWSLETTER No.222

August 1984

## NEXT MEETING

This month we have a guest speaker, Ron Bradbrook, who will talk about QRO! The illustrated talk will review the developments in HF Broadcasting Transmitters since World War 2. Ron has a fund of stories to tell - this should prove a very informative and entertaining evening. Don't miss it! Venue as usual, Marconi College, Arbour Lane, Springfield, Tuesday, 7th August at 7.30 p.m.

## COMMITTEE MEETING

Wednesday, August 15th, 7.30 p.m. in the bar of Marconi Residence.

## MEETINGS TO COME

September - Junk Sale.  
October - A.G.M.  
November - "RTTY, Amtor and Packet Radio".

## VISIT TO ESSEX RADIO

On Tuesday, 21st August at 7.30 p.m., a visit to the Essex Radio Studios, Clifftown Road, Southend for a special technical tour arranged by one of the Engineers. Max. of 10 in party. Anybody interested contact Bill Cole G4JUW at the Club Meeting on the 7th August or Telephone Danbury 5748.

## REGIONAL REPRESENTATIVE - ELECTION RESULTS

The results of the recent RR16 ballot have been announced as follows:-

A.Owen G4MHF	150 votes	T.D.Howe G3PLF	37 votes
I.T.Coleman G4GBT	48 votes	L.V.G.Turner G4CUT	25 votes
M.J.Musgrave G4NVT	41 votes	Invalid votes	7

Our new Regional Representative is therefore A.Owen G4MHF who resides in Ipswich.

The Committee of Chelmsford A.R.S. are very disappointed at the lack of support for our local candidate, our Vice President, Les G4CUT. Considering the size of the Society, 62 members and the density of the Amateur Radio population in the Chelmsford area, the support for a local candidate was pretty dismal. However, Les has expressed his willingness to continue as Area Representative of the RSGB and will continue to keep the club fully informed of RSGB matters, so please support him in this role.

## DF NEWS JULY EVENT - DICK G3WHR

The 1st prize for the "confuse a competitor" award must surely go to Richard DeLaRue and Jeff Herbert. Together they established G4FJC/P near Alresford - familiar ground to most of us - then provided such a strong signal at Tiptree that some teams believed they were within 2 miles of the start. Some mysterious directional properties of the aerial, plus the location near the Colne river, then resulted in almost total bewilderment of competitors. Bearings from the North bank indicated South and the converse; and the nearer to Alresford - the weaker the signal. By 9 p.m. less than half the teams had located the station and some were still on the wrong side of the river. The contest was extended to allow more teams to "finish" but some found it easier to find the pub than the transmitter. Results:- (arrival times BST p.m.)

Ian Butson	8.25
Alan Williams	8.57
Roy Emeny	8.57.5
Pat Cranmer	9.00
Mike Hawkins	9.04
Frank Pearson	9.25
Dick Brocks	9.33 via Fingringhoe-Wivenhoe-Fingringhoe-Alresford
Paul Clark	--
Peter Larbalestier	!!

Future events 3rd and 31st August - Colchester. There is no Chelmsford event in August.

## JACKPOT RAFFLE

As announced in last months newsletter, the Jackpot raffle was drawn last month and won by Ian Maslen G4BYR. Ian has chosen the ARRL handbook as his prize.

## OTHER NEWS

Peter G4DAN has written a short article for the Writtle Parish magazine about Amateur Radio. It is a very interesting article and gives Amateur Radio some extra publicity. Well done Peter.

Gwyn G4FKH has regrettably had to give up his slow morse transmissions due to pressure of work. This is a shame, but thank you Gwyn for your time to do the slow morse over the past months.

#### C.A.R.S. NEWSLETTER FIRST - Eric G8ADX

This item has been assembled on my BBC micro-computer fitted with the Wordwise word processor and then transmitted over the air on 2 metres to Roy, G3PMX for our Newsletter compiler, Ela, G6HKM.

I have produced an interface between the BEEB and my transceiver, in this case a Kenwood 9130. Basically this remotes the microphone and its controls together with the loudspeaker feed so that these facilities can be selected and switched for various modes of computer/transceiver operation.

These modes of operation include:

1. Direct recording of received signals to a cassette recorder.
2. Remote transmit/receive facilities from the computer location.
3. Direct programming of the computer by received signals.
4. Transmission of programs (non copyright of course!) either direct from the computer or from the recorder.
5. RTTY.

In mode 3 it was vital to include a limiter to restrict the received signal to less than 5 volts to safeguard against accidental overload of the computer input when tuning the receiver.

In mode 4 it is convenient that the "cassette" output of the computer is at mic level, 200mV approximately.

In mode 5, RTTY, the G3LIV interface board is used for receiving together with the G3WHO program. The transmit waveform generated by the BEEB is a squarewave which is far too fierce for direct modulation so I have reduced it to a sinewave by two simple active filters. The RTTY system was suprisingly easy to build and align.

One of the first stations received on HF using my FRG7 communications receiver was in the Canary Islands.

A future club meeting will include RTTY so there is no need to go into detail now.

Future plans for expansion include an interface to receive slow scan television. The printed circuit board and program are available from G3LIV.

In addition to the above, several other programs related to amateur radio are in use at this station including QRA locator and morse training.

One problem yet to be tackled is radiated interference by the computer. Fortunately this has not caused too much inconvenience so far but will certainly have to be solved if and when I start to chase those DX HF QSOs.

#### ESSEX REPEATER GROUP

As reported last month, the club has donated £10 to ERG, to go towards the purchase of new equipment. If anyone else would like to pay Repeater subscriptions, please contact me in the first instance and I will give you details of where to send your money.

73, Andrew.

Witham S12316 (Day)  
Silver End B3094 (any other time)

9, Abraham Drive,  
Silver End, Witham.

#### FOR SALE

Bernard G6RM is shortly moving to a bungalow in Suffolk and due to lack of space has reluctantly to dispose of the following items of equipment. The majority include the manufacturers technical handbooks giving specification, technical descriptions, operating instructions, servicing information, spares list, circuits, etc. All working, no reasonable offer will be refused.

Marconi Instruments Dual Trace Oscilloscope Type TF1331 £60.

Mullard Single Trace Oscilloscope type E800 £5.

Solartron Digital Voltmeter Type LM1440.3, 5 ranges 13V-2000V £50.

Furzehill Sensitive Valve Voltmeter Type V200 £20.

Marconi Instruments Valve Voltmeter Type TF428B - 5 ranges 1.5V-150V £5.

Hallicrafters Ultra High Frequency Receiver Type S-27 in cabinet 28MHz-144MHz in 3 ranges. AM or FM £10.

S.T.C. equipment made for GPO Type 74590-B in two units. Oscillator type 16LXU-38B, 5 ranges 300KHz-20MHz metered output and internal calibrator. Power unit type 14-LXU-39B, Stabilized power unit for Oscillator plus additional equipment £45.

Power unit type 3.10K/11517 manufactured by Ekco. Part of RAF VHF equipment. 200-250VAC input 250VDC @ 100mA output plus 6.3VAC @ 3A. 19" rack mounting unit £1.

Labgear Eliminator type B2027. Input 200-250VAC, 50Hz. Output controlled by Variac, rating 0-20VAC, 10A also bridge rectifier into 6000uF capacitor to provide rough 0-20VDC output up to 10A or via a choke plus additional 2000uF to provide smooth output. Output voltmeter fitted. Useful item, will also charge accumulators £10.

Double wound isolation transformer 250VAC input, 250VAC output @ 1.1A, Parmeko type 5081/1 £2.

Selection of speaker units, Mains transformers, chokes, all types and sizes, Parmeko, Gresham, EE, Partridge etc, impregnated and oil filled, Offers?

Contact B.Reichman Tel.No. Chelmsford 352500.