

Meetings

The next meeting of the Society will be held on Tuesday, the 3rd May 1960, at the Marconi College, Arbour Lane, Chelmsford commencing at 7.30 p.m.

The guest speaker this month is Mr J.C. Graham, G3TR, who has kindly agreed to talk on 'Air Traffic Control'.

Forthcoming Event

National Field Day takes place this year on June 4th and 5th - see attached sheet for further information.

News Items

With the election of two new members at the last meeting the Committee now consists as follows:-

President - R. Ferguson, G4VF  
Vice-Presidents - J.R.D. Martyr, G3PMX. W.A. Dix, G5IX  
Committee - P.K. Blair, G3LTF (Chairman)  
A. Butcher, G3KPJ (Hon. Secretary)  
J. Keyes  
P.J. Naish, G3EIX  
B.J. Reichman, G6RM  
M.W. Rignall, G3OYX  
G.J. Newnham G3PDK (Hon. Treasurer)

D.F. Hunt - Results

The first Direction Finding contest this year was well supported and appears to have been enjoyed by those taking part. The Hidden Station under the call of G5IX/P was located on the edge of a wood near Bushy which proved excellent for putting signals into the starting point at Marconi College. The first to arrive was Arthur Butcher, G3KPJ, with a clear lead at 1518 hours to be followed by G3PKD at 1605 hours. Roy Martyr, G3PMX, was next to appear at 1609 hours by which time Peter Blair, G3LTF, had commenced to put in a cyclic appearance to interrupt the forest music of pheasants and woodpecker but finally managed to check in by 1615 hours. During the last half hour the area seemed full of receivers tending to produce feed back and the station operators found it extremely difficult to avoid being walked on, however from overheard conversations it was possible to learn how things were going. The station was fairly well hidden and no further competitors were successful in locating the exact position before the closing down time at 1630 hours. Those taking part included G3LTF, 3PMX, 3OYX, 3OCM, 3RLQ, 3KPJ, 3PKD, 3RMI, and Jack Keyes. Many thanks must be expressed to John Alderton for his assistance in setting up the station and most of the operating, to G4VF who covered the task of the base station, and to Roy Martyr who once again made the event possible by providing most of the equipment.

News Items from our Members

Our first note comes from Harry Collin G2DQ who enquires whether anyone has a suggestion for curing ignition interference on a Rover 2000.

G4VF has been busy with transistors and built a Field Strength measuring unit. The diode circuit is situated in the greenhouse at the bottom of the garden with 2 feet wire for antenna. Two bell wires take the rectified signal up to the unit in the shack. The 500 micro-amp meter gives a critical indication and has apparently proved very useful.

Next call sign that is in a way somewhat of a rarity on the air G6RM, work is proceeding on a CR.300 Receiver with some distraction by repairs to TV sets. However, it is hoped that transmitter will be running again on top band before long.

## Technical Note

Roy Martyr G3PMX gives details of his ferrite aerial for 160 metre D.F. hunting.

Many shapes and sizes of ferrite rod have been tried but the best results are obtained with large diameter rods.

Using a Q meter, optimum results were found on a rod 5/8" diameter by 7-1/4" long (Mullard Ferroxcube type FX1268); the measured Q is 300 at 1900 Kc/s with tuning capacitor 120 P.F.

winding details - make start at 2-3/4" from one end and wind 24 turns of 22 swg enameled copper wire, very evenly spaced to finish 1/2" from other end; make a tap at 2 1/2 turns from start.

Connecting details. the start is 'earthy' end, this should be connected to the 'earthy' side of the tuning capacitor and the outer of a small co-ax cable; the inner of the cable should be connected to the tap at 2 1/2 turns; the finish of the winding should be connected to the 'hot' side of the tuning capacitor.

The co-ax cable carries the R.F. signal at low impedance to the base circuit of the mixer transistor with the outer earthed to chassis of receiver; its length is not critical.

Bandsread is necessary with this high Q and the tuning capacitor should be made using a 3-40 PF variable in parallel with a 100 PF fixed polystyrene capacitor.

It has been found by experiment that this type of aerial has sensing; the finish end of the winding points towards the signal source.

## Exchange and Mart

1. For sale "Viceroy" Transmitter, no cabinet suitable for rack mounting, complete with later type power supply with control unit, as used in recent contest. £45, or exchange for commercially built portable/mobile equipment for top band or V.H.F.

A.W. Butcher G3KPJ,  
Rectory Cottage,  
West Hanningfield. (phone Hanningfield 238)

2. Wanted. - Multi-range Test Meter, also two gang condenser, maximum 150 pf suitable for A.T.U. with spacing for 150 watts or alternatively a complete A.T.U. from 80 through to 10 for use with G5RV aerial system.

R. Tunstill, G3OET  
(phone Chelmsford 4957 home) or  
(phone Chelmsford 3650 business)

3. Wanted. - 465 Kc/s crystal for HRO I.F. Filter

P. Blair, G3LTF  
26 Chaplin Close,  
Galleywood.  
(phone Chelmsford 58439)

## Note

Please note it is necessary to remind those members who have not paid their subscription, if payment is not made by the next meeting no further copies of the News Letter will be sent to them.

NATIONALS FIELD DAY 1966 - JUNE 4TH & 5TH

Location:      Beddells End Marconi Site, Writtle.

Timings :      4.0.66 1030BST arrive at site  
                  1200BST lunch for helpers on site (please see below)  
                  1300BST erect stations  
                  1800BST operating commences

                  5.6.66 1800BST finish operating and pack up site.

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You will all remember, I am sure that last year the Society won the 3.5mc/s shield for the leading station and were placed 16th overall. Whilst this was a very good effort we intend that this year we shall do much better. To this end we shall require YOUR support please.

An entry has been submitted to operate two stations and plans are well advanced to get these two stations on the air on time.

WANTED!      WANTED!

Helpers      to erect the stations on Saturday and to take it down again on Sunday. A free lunch will be provided for all those who turn up to help on Saturday - For timings please see above.

Operators   (a) To act as first operators - brush up your morse, it's not as rusty as all that.  
                  (b) To act as second operators - what, you don't know any morse? That doesn't matter, come along you will be very useful.

Names of volunteers, as soon as possible please, to any member of either the NFD or Society Committee. Please remember that the May meeting is the last before NFD.

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