



APPLETON LABORATORY NEWSLETTER

No. 179

June 1976

Our Role in W.A.R.C.

A major event in world telecommunications is to take place in early 1977 when a World Administrative Radio Conference will be held to plan for a Broadcasting Satellite Service to operate at frequencies in the 12 GHz band. This will involve planning for the broadcasting of radio and television programmes from satellites directly into domestic receiver installations or into community reception centres for subsequent domestic redistribution.

It is the first time that the problems of such a broadcasting service will have been tackled and the problems of planning will be accentuated because the Broadcasting Service will have to share the 12 GHz band with other Services such as the Fixed and Mobile Services in addition also to terrestrial broadcasting in the same band. In one region of the world - the Americas - there is the additional complication of the Fixed Satellite Services (space to earth) also sharing the band.

Prior to embarking on the planning exercise it was clearly prudent that all national administrations concerned with telecommunications should seek to start from the best possible technical bases. Accordingly, a group of the appropriate Study Groups of C.C.I.R. met in May this year in Geneva as a Joint Working Party to prepare a report to provide the required technical information in a form suitable for the use of the W.A.R.C.

The Director was the Chairman of this Joint Working Party and it is expected that he will be invited to present the report of the J.W.P. to the W.A.R.C. for the Broadcasting Satellite Service when it convenes next year. Dr. Lane also assisted in the preparation of the J.W.P. report.

It is gratifying that the Laboratory's long experience of radiowave propagation research in relation to communications continues to be accorded such favourable international recognition.

WILMINGTON CARBONADO

NEWSLETTER



Staff News

Congratulations to:-

Norma Morales and Frank Hawkes on their marriage on 19th June.

Trevor Dimbylow and Trish Radwell who were married on 12th June.

Chris. Chaloner on his being awarded a D.Phil. in Atmospheric Physics.

J. Halley	now	Stores Officer 'C'
M. Sandford	"	P.S.O.
R. Holdaway	"	S.S.O.
P. McPherson	"	S.S.O.
J. Crawford	"	H.S.O.
R. Hayes	"	H.S.O.
D. John	"	H.S.O.
P. Neirinck	"	H.S.O.
C. Nelson	"	H.S.O.
J. Urquhart	"	H.S.O.
P. Jordan	"	S.O.
P. Springate	"	S.O.
B. Warburton	"	S.O.
R. Young	"	S.O.

Welcome to:

H. H. Elliott Cfn. I

Resignations etc.:

J. Bell S.S.O.

Other Changes

D. B. Shenton returned to Culham as Head of Div. VII
Mrs. G. M. Clark transferred to G.T.S. Group.

John Dudeney

Friends at Appleton are glad to learn that John Dudeney (B.A.S.) has been appointed P.S.O. From information in the current Polar Record we learn also that last February he was among those awarded the Polar Medal 'For outstanding services as members of the British Antarctic Survey'. May we offer our congratulations on both counts.

S.R.C. Sports Day

The Sports Day of the S.R.C. Sports and Social Association will be held at the Civil Service Sports Ground, Chiswick on Tuesday 13th July.

Which? Subscriptions

The Which? bulk subscription is due for renewal in July. If you are already receiving Which? and wish to continue, or if you would like to start taking the magazine, could you let me have your subscription as soon as possible.

The subscription rates are as follows:-

Which? only £6.00 per annum.

Motoring, Money and Handyman Which? are each an extra £2.00, and

Holiday Which? is an extra £3.00 per annum.

Mike James
Spur C

Letter to the Outstations

Dear Colleagues

Agility on the part of your correspondent is, as was once said of the refusal of coined money, a sight seldom seen in a Christian land. Be that as it may, the phenomenon might have been noticed the other lunch time when I outshone my two companions in taking swift evasive action from a touchy bull. The taurine message was clear and distinct - 'move off' (or near offer). I moved, gaining a handy enclosure with a view to conducting a more orderly withdrawal using the protective bulk of Hut 15.

The hut was not there. A panic induced hallucination? No. It had stood from time immemorial - now it truly was not. A sense of disorientation seemed to invade the bull as well, for it stopped short then wandered off, a kind of blood-shot brooding look in its eye.

Thus triumphs time over that building which has seen so many of our researches, from hairy breadboards seeking short-term asylum, to the majestic merry-go-round of the backscatter equipment, visited and viewed with interest by Prince Philip himself. Not even Royal approval could stay decay. Bits and pieces of the structure have doubtless been saved for useful service elsewhere, the price of wood being what it is. Perhaps some of the decades of scientific enthusiasm - and frustration - have, like a kind of philosophical creosote, seeped into their fibres, protecting them from over-frivolous use. Too bad there is nothing suitable left to make a Newsletter writing desk, it might help improve these offerings from,

Yours sincerely

The Editor

Reprint List June

- A1149 Atmospheric absorption in the range 12 cm^{-1} to 32 cm^{-1} measured in a horizontal path.
G. G. Gimmestad and H. A. Gebbie. J.A.T.P. 1976, Vol. 38, pp 325-328.
- A1164 The power spectrum of temperatures in central England.
W. C. Bain. Quart. Journ. of Royal Meteor. Soc. 1976, Vol. 102, pp 464-466.
- A1207 A multisatellite study of auroral-zone phenomena,
II Observations during a substorm period on 11 November 1969.
G. R. Thomas et al. ESA Scientific Report 1976, SR25, 1-64.

Internal Memoranda

NIL