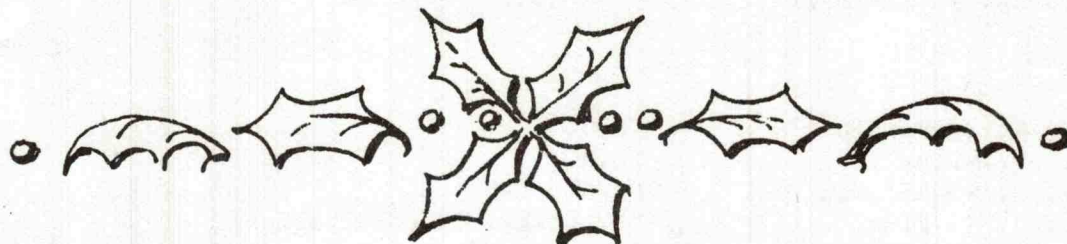




APPLETON LABORATORY NEWSLETTER

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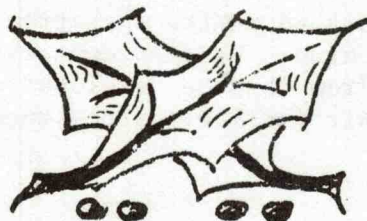


1978 will be long-remembered as a year of anxiety about the future of the Laboratory and about the work, careers and domestic situations of individual members of staff. There is some consolation in the widespread endorsement, by the scientific community, of the past and present contributions of the Laboratory to the advance of science and to the support of research in universities and elsewhere, and in the many complimentary comments received from individuals familiar with the work of the Laboratory. However the problems remain, and will need to be faced and solved in 1979 and subsequent years.

Despite the energy which has necessarily been dissipated on consideration of organizational matters, the year has been one of solid achievement. The IUE satellite was launched and is being successfully exploited, two of the three remaining approved Skylark rounds have been flown, the X-ray polychromator has been completed, much of the radio-propagation work of the past few years has come to fruition and has been embodied in a major contribution by the Laboratory to international deliberations in preparation for the 1979 World Administrative Conference, the re-designed stabilised balloon platform has had two successful trial flights, arrangements have been made for a major involvement by the Laboratory in image processing. This is not intended to be a synopsis of the annual report, but is perhaps sufficient to indicate that the programme of work at least has a good basis for a promising future.

According to present plans, this will be my last Christmas message as Director, but there will be later opportunities to express my thanks to the staff for their support. For the moment, I offer you all my best wishes for Christmas and hope that the euphoria which will no doubt be generated by good-living during the break will remain with you through 1979.

F. Horner



Staff News

Congratulations to :

Mrs. M. Robinson	now C.O.
Mrs. E. W. Scammell	" C.O.

Welcome to :

Mr. S. J. Martin	S.O.
Mr. R. Miles	C.A.
Mr. H. W. Coleman	S/Sk. Lab.
Mr. J. T. King	Exp. Wkr. II (Chilbolton)
Mr. D. P. Mathur	S.O. (ARD Culham)
Mr. M. E. Daniels	S.O.
Mr. A. W. Maidens	Cfn. I
Miss P. A. Pargiter	Cleaner P/T

Resignations, etc.

Mr. B. Warburton	S.O.
Mrs. A. Hammel	Typist
Mrs. G. R. Kingston	Asst. Cook
Mr. A. C. Morris	Cfn. I
Mr. R. Pickard	Lab. P/T
Mrs. N. Jupp	C.O.
Mrs. A. Watson	Typist P/T
Mrs. J. Ryder	C.O.

Other Changes

Dr. P. C. Barber	S.S.O. from Div. 6 to Div. 2
Mr. J. W. Errington	S.E.O. to S.R.C. Central Office
Mrs. M. Robinson	To Assets

Award to Mr. L. Mitchell

We are very pleased indeed to report that the World Scout Conference has presented Les Mitchell with the Bronze Wolf Award. This, the only award given by the World Scout Committee upon the recommendation of the World Honours and Awards Committee is given solely for outstanding services given by the individual to scouting in his own country and internationally.

To quote from the citation :

"Les Mitchell started Scouting as a Sea-Scout during 1936-42. During wartime service with the Royal Navy he was an Assistant Scoutmaster for one year in USA and one in Australia. In 1957 he assisted in the operation of the first amateur radio station at a World Jamboree. He then conceived the idea of an annual worldwide Scout radio link. From this he developed and personally organized the first Jamboree on the Air in 1958. Since then he has been the

British organizer for this event. In 1964-65 he served as Assistant District Commissioner. He organized special stations at several international camps during 1967-72. He was Co-Chairman of the first JOTA Conference during the World Jamboree of 1975.

Over the period of 21 years the Jamboree on the Air has annually brought a closer participation in the worldwide brotherhood of Scouting to several hundred thousand Scouts. The success of these events owes an enormous amount to the initiative and untiring contribution of Leslie Mitchell."

We offer our congratulations to Les on this honour (only 132 have been given since Scouting began). He, in turn, wishes to thank colleagues here for help and advice given over the years.

Is this how the idea originated?

'I always thought Swindon was rather near London. But perhaps I'm mixing it up with Slough.'

Iris Murdoch, 'The Bell'.

D. Long

Letter to the Outstations

Dear Colleagues,

This offering, slimmer than usual, denotes no lack of material. In an attempt to lessen demands on those much occupied with weightier matters of publication about science and the other, other thing, most articles are being held over. I offer you, then, a seasonable gift, a letter mercifully short, yet sufficiently long, to wish you all a Merry Christmas and a Happy New Year from,

Yours sincerely

THE EDITOR

Reprints

IUE papers published in Nature, 5 October 1978

- 1310 *Boggess, A. and 32 others including Barker, P. J., Dunford, E., Gondhalekar, P. M., Hall, J. E., Harrison, V. A. W., Oliver, M. B., Sandford, M. C. W., Vaughan, P. A. and Ward, A. K.
The IUE spacecraft and instrumentation, Nature, 1978, 275, 372-377.
- 1306 *Boggess, A. and 33 others including Dunford, E., Gondhalekar, P. Oliver, M.B., Sandford, M. C. W. and Stickland, D.,
The in-flight performance of the International Ultraviolet Explorer, Nature, 1978, 275, 377-385.
- 1325 *Heap, S. R. and 17 others including Stickland, D., IUE observations of hot stars : HZ43, BD+75^o325, NGC6826, SS Cygni, η Carinae, Nature, 1978, 275, 385-388.
- 1326 *Linsky, J. L. and 15 others including Stickland, D., IUE observations of cool stars α Aurigae, HR1099, λ Andromedae, and ϵ Eridani, Nature, 1978, 275, 389-394.
- 1327 *Grewing, M. and 15 others including Gondhalekar, P. M., IUE observations of the interstellar medium, Nature, 1978, 275, 394-400.
- 1308 *Dupree, A. K. and 19 others including Sandford, M. C. W., IUE observations of X-ray sources : HD153919 (4U1700-37), HDE226868 (Cyg X-1), HZ Her (Her X-1), Nature, 1978, 275, 400-403.
- 1320 *Boksenberg, A. and 25 others including Burton, W. M. Gondhalekar, P. IUE observations of extragalactic objects, Nature 1978, 275, 404-414.
- 1329 *Lane, A. L. and 18 others including Gondhalekar, P. M., IUE observations of Solar System objects, Nature, 1978, 275, 414-415.

A.L. Reports*

- AL-R-1 Acton, E. W. V. and Burrows, C. J., A study of the thermal balance of an artificial earth satellite, Appleton Laboratory Report No. AL-R-1, 1978, 19p.
- AL-R-2 Rishbeth, H., Forthcoming lunar occultations of the X-ray source Sco X-1, Ionospheric Events or Non-events?, Appleton Laboratory Report No. AL-R-2, 1978, 4p.

*The Appleton Laboratory intends in these Reports to supplement the regular literature by publishing experimental and theoretical data, descriptions of techniques and computations, or other material that may be of use outside the Laboratory but is more detailed or more specialised than appropriate for publication in scientific and technical journals.

Internal Memoranda

IM 377 Radar Studies of Rain in the U.S.A.
Notes on a visit in June 1978

M. P. M. Hall
& S. M. Cherry