

# *The Journal of*

## THE HELICOPTER ASSOCIATION OF GREAT BRITAIN



LONDON  
LONDONDERRY HOUSE,  
19 PARK LANE, LONDON, W.1  
Vol. 4. No. 3. OCT.-NOV.-DEC., 1950.

*The Journal of*

# THE HELICOPTER ASSOCIATION OF GREAT BRITAIN

Editorial Offices; Londonderry House, 19 Park Lane, London W.1. Tel.; Grosvenor 1771

VOL. 4. No. 3.

October—November—December, 1950.

PRICE : 10/6.

*President :*  
J. G. Weir, C.M.G., C.B.E.,  
F.R.Ae.S.

*THE COUNCIL :*  
*Chairman :*  
N. J. G. Hill, A.M.I.Mech.E.,  
A.R.Ae.S.

*Vice-Chairman :*  
R. N. Liptrot, C.B.E., B.A.

J. A. J. Bennett, D.Sc., M.A.,  
Ph.D., D.I.C., F.R.Ae.S.  
F. F. Crocombe, B.Sc., D.I.C.,  
A.C.G.I., F.R.Ae.S.  
O. L. L. Fitzwilliams, B.A.  
H. Grinsted, C.B.E., B.Sc.,  
F.C.G.I., F.R.Ae.S.  
R. Hafner,  
A. McClements, A.R.T.C.,  
A.M.I.Mech.E.  
H. Roberts, Ph.D., B.Sc., D.I.C.,  
A.F.R.Ae.S., A.M.I.Mech.E.  
N. E. Rowe, C.B.E., F.R.Ae.S.,  
D.I.C., B.Sc., A.C.G.I.  
J. S. Shapiro, Dipl. Ing.,  
A.F.R.Ae.S.  
W. Stewart, B.Sc.  
G. C. Turner, A.F.C.  
L. S. Wigdortchik, A.F.R.Ae.S.

*Hon. Secretary :*  
Major J. W. Richardson.

*Hon. Treasurer*  
G. C. Turner, A.F.C.

*Hon. Editor :*  
H. Roberts, Ph.D., B.Sc., D.I.C.,  
A.F.R.Ae.S., A.M.I.Mech.E.

*Hon. Assist. Editor :*  
C. C. Cooper.

*Assist. Secretary*  
Miss Sheila MacPhee.

*Auditors :*  
Messrs. W. B. Keen & Co.

*Offices :*  
Londonderry House,  
19 Park Lane, London, W.1.  
Tel.: Grosvenor 1771.

*Publications:*  
*Advertisement Manager:*  
S. H. Pilton  
Tel.: Croydon 5970.

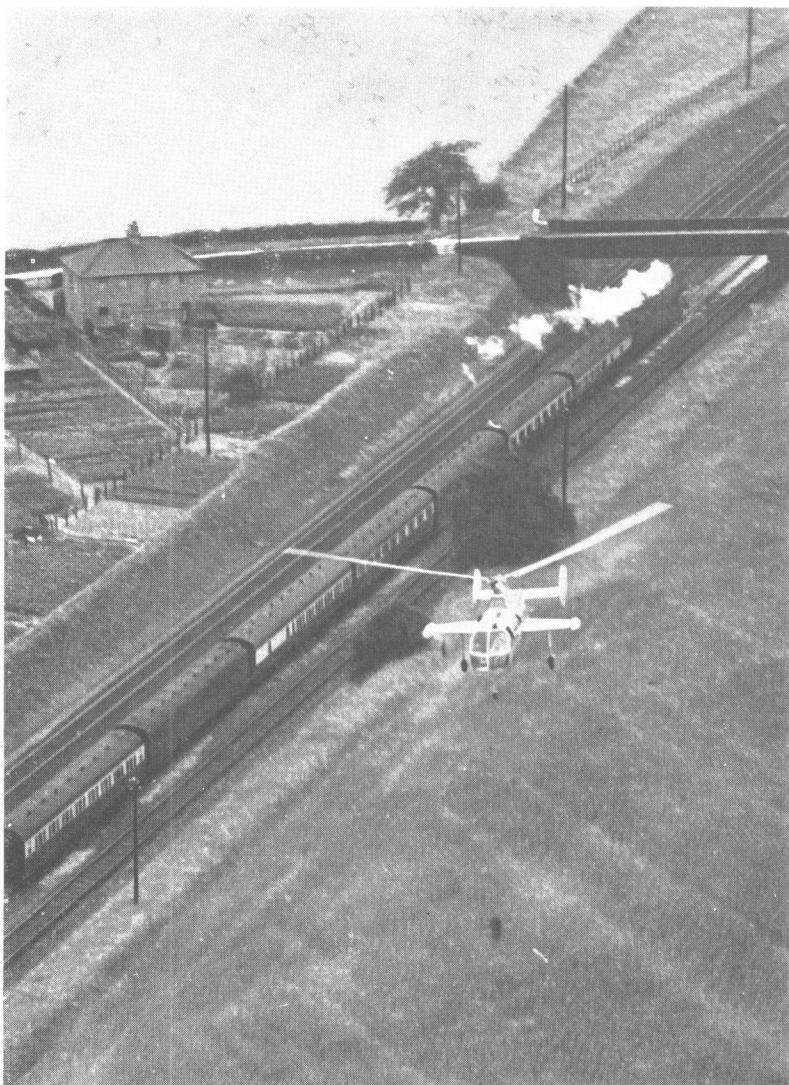
## CONTENTS

	<i>Page</i>	
EDITORIAL ... ... ... ...	83	
THE FULL DAY DISCUSSION ON HELICOPTER MAINTENANCE (AFTERNOON AND EVENING SESSIONS) ...		84
PAPERS :		
ACCESSIBILITY, SERVICING AND TESTING OF COMPONENTS		
By G. E. WALKER, A.M.I.Mech.E.	85	
AN ANALYSIS OF PRESENT-DAY HELICOPTER MAINTENANCE		
By F. L. SWAIN	91	
MATERIALS AND THE FATIGUE ASPECT		
By W. E. COOPER	97	
DISCUSSION ... ... ... ...	104	
A BIBLIOGRAPHY OF ROTATING WING AIRCRAFT		
COMPILED BY		
DR. J. A. J. BENNETT AND CAPT. R. N. LIPTROT ... ... ... ...	118	
LECTURE PROGRAMME ... ...	134	

## OBJECTS OF THE ASSOCIATION

The objects of the Association are to collect, compile, and disseminate information of a technical and semi-technical nature pertaining to Helicopters, and all other types of Rotating Wing Aircraft.

The Association aims to work in close co-operation with existing Aeronautical Bodies on matters affecting its objects, and it may act as an Advisory Body in the promotion of legislation calculated to be of benefit to the development of Rotating Wing Aircraft.



*FAIREY GYRODYNE on its International  
Record Speed Run at White Waltham  
28th June, 1948*

THE FAIREY AVIATION CO LTD HAYES MIDDLESEX