THE SOCIETY'S AWARDS

The Society offers a number of valuable awards, most of them annually. Full particulars of the conditions attaching to these awards may be obtained on application to the Secretary.

Society's Gold Medal

This is the highest honour which the Society can confer for work of an outstanding or fundamental nature in aeronautics.

British Gold Medal for Aeronautics

The British Gold Medal for Aeronautics is awarded for an achievement leading to advancement in aeronautical science.

Simms Gold Medal

The Simms Gold Medal is awarded annually for the best paper read in any year before the Society on any science allied to aeronautics, e.g., meteorology, wireless telegraphy, instruments.

The George Taylor (of Australia) Gold Medal

The Taylor Gold Medal is awarded annually, at the discretion of the Council, for the most valuable paper submitted or read during the previous session.

Wakefield Gold Medal

The Wakefield Gold Medal is awarded annually to the designer of any invention or apparatus tending towards safety in flying, and is open to members or non-members.

Society's Silver Medal

The Society's Silver Medal is awarded, at the discretion of the Council, for some advance in aeronautical design.

British Silver Medal for Aeronautics

The British Silver Medal for Aeronautics is awarded for an achievement leading to advancement in aeronautical science.

Society's Bronze Medal

The Society's Bronze Medal is awarded, at the discretion of the Council, under the same conditions as those for the Silver Medal, but for some less important advance in aeronautical design.

Wilbur Wright Memorial Premium

The Wilbur Wright Memorial Lecture is held annually, a premium of seventy-five pounds being awarded to the lecturer invited by the Council to deliver the lecture. The lecture is usually given alternately by an American and an Englishman, and is the most important aeronautical lecture of the year. It is delivered, whenever possible, on the last Thursday in May of each year.

British Commonwealth and Empire Lecture

The Council of the Royal Aeronautical Society have completed the arrangements for the founding of a British Commonwealth and Empire Lecture.

The lecture, on any aeronautical subject approved by the Council, will be delivered annually in September in London, by a lecturer chosen in alternate years from the British Dominions and Colonies and Great Britain.

THE SOCIETY'S AWARDS

The Council, by founding this British Commonwealth and Empire Lecture, are anxious to encourage new ideas and new points of view from all parts of the British Commonwealth and Empire, and to make the Lecture second only in importance to the Wilbur Wright Memorial Lecture.

The British Commonwealth and Empire Lecture will have a premium of £50 attached to it, and in the case of lecturers coming from the Dominions and Colonies an allowance will be paid towards the Lecturer's expenses.

R.38 Memorial Prize

The R.38 Memorial Prize is offered annually for the best paper received by the Society on some subject of a technical nature in the science of aeronautics, preference being given to papers which relate to airships. The prize is twenty-five guineas.

The Herbert Akroyd Stuart Lectures

Under the will of the late Mr. Herbert Akroyd Stuart a sum of £700 is held in trust by the Society for the offer of a prize every two years, for the best paper or lecture read or given before the Society dealing with the Origin and Development of Heavy-oil Aero-Engines. The prize is open to members and non-members.

Edward Busk Memorial Prize

The Edward Busk Memorial Prize is offered annually for the best paper received by the Society on some subject of a technical nature in connection with aeroplanes (including seaplanes). Its value is twenty guineas.

Pilcher Memorial Prize

The Pilcher Memorial Prize is offered annually, at the discretion of the Council, for the best paper by a Student on heavierthan-air craft or any analogous subject. Its value is five guineas.

Usborne Prize

The Usborne Prize is offered annually, at the discretion of the Council, for the best paper by a Student on some subject in connection with Aero Engines. Its value is five pounds.

Major Baden-Powell Memorial Prize

The Major Baden-Powell Memorial Prize is awarded in May and December of each year to the Student who is considered the best student by the examiners in the Society's Association Fellowship examinations. Its value is three guineas.

Elliott Memorial Prize

The Elliott Memorial Prize is awarded twice yearly to the apprentice at Halton who has the highest percentage of marks in the passing-out examination. Its value is two and a half guineas for each award.

R. P. Alston Memorial Prize

The R. P. Alston Memorial Prize is awarded to any Graduate or Student of the Society for work done leading to improvement in the safety of aircraft, and particularly for improvement in stability and control. Its value is approximately five pounds

Branch Prize

The Council offer an annual prize of twenty guineas for the best paper read before the Branches during the previous lecture Session. The prize is open to any member of the Society or of any Branch.

Journal Premium Awards

The Council has set aside an annual sum of £250 to be given as premium awards to authors of papers published in the Journal.

- AN APPRECIATION -

The Council of the Royal Aeronautical Society wish to thank those Companies who, by their generous co-operation, have done so much to help in the production of the Journal

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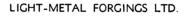
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CHLORIDE ELECTRICAL STORAGE CO. LTD., THE	Exide Works, Clifton Junction, near Manchester Highbury Grove, N.5 Hatfield Aerodrome, Herts. 1-3 Brixton Road, S.W.9	Swinton 2011 Canonbury 1234 Hatfield 2345 Reliance 3311 Victoria 6242 Cheltenham 53471 Sheffield 41121-4 Erdington 2121 Sheffield 41071 Hayes 3800 Sheffield 4071 Hayes 3800 Sheffield 41193 Hamble 3191 Feltham 3636 Gloucester 6294 Gladstone 8000 Kingston 1044 Abbey 2672 Stratford-on-Avon 3265 Southall 2321 Fordhouses 2266 Welbeck 2332-6 Hainault 2601 Broadwell 1351 Caernarvon 580
CHLORIDE ELECTRICAL STORAGE CO. LTD., THE	Exide Works, Clifton Junction, near Manchester Highbury Grove, N.5	Swinton 2011 Canonbury 1234 Hatfield 2345 Reliance 3311 Victoria 6242 Cheltenham 53471 Sheffield 41121-4 Erdington 2121 Sheffield 41071 Hayes 3800 Sheffield 20031, 26491 Sheffield 41193 Hamble 3191 Feltham 3636 Gloucester 6294 Gladstone 8000 Kingston 1044 Abbey 2672 Stratford-on-Avon 3265 Southall 2321 Fordhouses 2266 Welbeck 2332-6 Hainault 2601 Broadwell 1361

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THE ROYAL AERONAUTICAL SOCIETY

4 HAMILTON PLACE, PICCADILLY, LONDON, W.1

AUGUST

NOTICES

1947

JOURNAL PREMIUM AWARDS

The Council have set aside an annual sum of £250 for the award of premiums for papers published in the *Journal* and the Council hope that members (or non-members) will contribute papers on their own special subjects.

CONTENTS OF THE AUGUST JOURNAL

The Development of the Goblin Engine, by E. S. Moult, B.Sc., M.I.Mech.E., A.F.R.Ae.S.

Useful Load Ratio with Jet and Airscrew Propulsion of Aircraft, by Bo K. O. Lundberg, A.F.R.Ae.S.

Stability of an Aircraft Structure in a Strength Test Frame, by P. B. Walker, M.A., Ph.D., F.R.Ae.S.

ANGLO-AMERICAN AERONAUTICAL CONFERENCE

Members are reminded that application forms for membership of the Anglo-American Aeronautical Conference, 3rd-6th September, were enclosed with the JUNE Journal and Monthly Notices. Eighteen papers will be read and discussed during the Conference. These papers will not be published in the *Journal*, but will be published separately.

GARDEN PARTY AND GUILDHALL DINNER

Members are reminded that application forms for tickets for the Garden Party (Radlett, 14th September, 1947) and for the Dinner at Guildhall (9th September, 1947) were enclosed with the JULY Journal and Monthly Notices. Early application is advised for both functions as the numbers to either will be strictly limited and cannot be exceeded in any circumstances.

ELLIOTT MEMORIAL PRIZE

The Elliott Memorial Prize has been awarded to Corporal Air Apprentice A. E. Dyer for the highest marks obtained by the August 1944 Entry in the General Studies Examination.

CLOSING OF THE LIBRARY DURING AUGUST

The Library will be closed for stocktaking from 11th to 23rd August inclusive. Members are requested to return all books which they have on loan from the Library not later than Saturday, 9th August.

MEETINGS HELD IN THE OFFICES OF THE SOCIETY

Meetings have been held during the month in the offices of the Society by the Aeronautical Research Council, Aerodrome Owners' Association, Society of British Aircraft Constructors, Meteorological Research Committee, R.A.E. J.A.C. Materials Committee, Air League of the British Empire, Graduates' and Students' Section.

GLOUCESTER AND CHELTENHAM BRANCH

A visit has been arranged to the Bristol Aeroplane Co. Ltd. to inspect the Brabazon I on Saturday, 23rd August, at 2.30 p.m. The party is limited to 100. Applications should be made to the Hon. Secretary, J. F. Cuss, A.M.I.Mech.E., A.F.R.Ae.S., c/o Gloster Aircraft Co. Ltd., Witcombe, Glos., or to a Committee member.

READING BRANCH—GARDEN PARTY

The Reading Branch Garden Party will be held on Saturday, 6th September, 1947, from 2.30 p.m. until about 6 p.m. There will be a Grand Fly Past at about 5 p.m.

A limited number of tickets will be available at 5/- per head to all members of the Society and to the Branches of the Society. The tickets will include tea and car park and/or Aircraft park. There will be no landing fees for aircraft which arrive before 2 o'clock. Service will be available for such aircraft.

Applications for tickets should be made, with remittance, to the Secretary, Reading Branch:—B. Buck, Esq., A.F.R.Ae.S., Miles Aircraft Ltd., The Aerodrome, Reading, Berks.

GRADUATES' AND STUDENTS' SECTION

Discussion

A discussion on the "Structural Design of Wings" will be held at 7.30 p.m. on Tuesday, 23rd September at the Society, 4 Hamilton Place, W.1. The Discussion will be introduced by Mr. F. Tyson, A.F.R.Ae.S., Assistant Chief Stressman, Handley Page Ltd.

Visits

30th August, 1947 (Saturday)—A visit has been arranged to the works of Miles Aircraft Ltd., Reading, at 2.30 p.m.

17th September, 1947 (Wednesday)—A visit has been arranged to the works of the de Havilland Aircraft Co. Ltd. at 2.30 p.m.

Dance

The committee have pleasure in announcing that the Section's Annual Dance, open to members and their friends, will be held on Friday, 17th October at the Royal Hotel, Woburn Place, W.C.1. Further details will be published in the September issue of the Journal.

CHANGES OF ADDRESS

To assist in keeping the records of members correct and up to date the Secretary will be glad if all members will notify him as soon as possible of changes of address.

When notifying changes please give the following particulars:—

Name (in block letters).

Grade of membership.

New address (in block letters).

Old address.

Changes of address must be received before the 15th of the month in order to be effective for the Journal for the following month.

ASSOCIATE FELLOWSHIP EXAMINATION RESULTS

The following were the successful candidates in the Associate Fellowship Examination held in May, 1947:—

J. M. Allwright, Design (Aero-Engines); G. E. Archdale, Strength of Aeronautical Materials and Structures (First Place), Design (Aircraft); P. W. Baker, Applied Mathematics, Theory of Internal Combustion Engines, Design (Aero-Engines) (First Place); D. F. Barnes, Applied Mathematics, Strength of Aeronautical Materials and Structures; P. B. Benham, Applied Mathematics; A. Berrington, Pure Mathematics; G. B. Bhide, Aerodynamics; G. Boyce, Theory of Machines; P. A. Budden, Aerodynamics; J. J. Bukovsky, Air Transport; H. Busen-Schmidt, Theory of Internal Combustion Engines (First Place); S. A. Caplan, Pure Mathematics; H. K. Cartwright, Pure Mathematics; L. J. Chantler, Pure Mathematics, Theory of Machines; W. G. Clennett, Pure Mathematics (First Place), Strength of Aeronautical Materials and Structures; Aircraft Materials; J. R. Combley, Aerodynamics, Design (Aircraft); H. Cook, Design (Aero-Engines); T. N. Corkhill, Applied Mathematics, Strength of Aeronautical Materials and Structures, Aerodynamics; E. Coton, Applied Mathematics, Aerodynamics, Meteorology; B. G. Cour-Palais, Theory of Internal Combustion Engines; E. N. Crabbe, Aerodynamics; K. D. Crisp, Pure Mathematics, Theory of Machines (First Place); N. S. Currey, Strength of Aeronautical Materials and Structures; Miss J. L. Davis, Pure Mathematics, Strength of Aeronautical Materials and Structures; E. D. Dixon, Pure Mathematics; J. Dolezal, Aerodynamics (First Place), Air Transport (First Place); J. Dorsey, Aircraft Materials; A. A. Down, Applied Mathematics; F. A. Drayton, Aircraft Materials; Miss J. R. Duncan, Pure Mathematics; G. D. Evans, Theory of Machines; A. Fairbrother, Aerodynamics; P. L. E. Gallimore, Aerodynamics; F. R. Gibb, Applied Mathematics, Strength of Aeronautical Materials and Structures, Aerodynamics; Miss D. Gwynne, Pure Mathematics; N. T. W. Harper, Theory of Internal Combustion Engines; L. H. W. Harris, Applied Mathematics; P. A. Hatswell, Theory of Internal Combustion Engines; J. M. Johnston, Applied Mathematics, Strength of Aeronautical Materials and Structures, Design (Aircraft); J. G. Jones, Applied Mathematics (First Place); J. B. E. Keeble, Pure Mathematics; E. D. King, Theory of Machines; R. E. Lambert, Theory of Machines; R. A. Langley, Pure Mathematics, Aerodynamics, Theory of Internal Combustion Engines; M. P. Le Lohe, Applied Mathematics; A. Lewandowski, Design (Aero-Engines); K. Macewicz, Design (Aero-Engines), Theory of Machines; S. H. Masters, Aircraft Materials; R. L. McCallum, Design (Aero-Engines); M. P. McHeffey, Applied Mathematics, Strength of Aeronautical Materials and Structures, Design (Aircraft); G. McIntosh, Strength of Aeronautical Materials and Structures, Aerodynamics; A. Measures, Strength of Aeronautical Materials and Structures; J. A. S. Moir, Pure Mathematics; E. Mucha, Theory of Internal Combustion Engines, Design (Aero-Engines); U. N. Nayak, Theory of Internal Combustion Engines; G. F. Perry, Strength of Aeronautical Materials and Structures; J. W. Piggott, Meteorology and its Application to Aeronautics; K. G. Rendle, Strength of Aeronautical Materials and Structures; G. C. Ricketts, Aerodynamics; J. H. Risdon, Theory of Machines; G. I. Robinson, Applied Mathematics, Strength of Aeronautical Materials and Structures, Design (Aircraft); R. R. Robinson, Pure Mathematics, Strength of Aeronautical Materials and Structures, Aircraft Materials; R. C. Rogers, Theory of Internal Combustion Engines, Aircraft Materials, Applied Mathematics; J. G. Romeril, Theory of Internal Combustion Engines, Design (Aero-Engines); D. N. Scard, Applied Mathematics, Aerodynamics; L. J. A. Sice, Applied Mathematics; L. Stern, Theory of Internal Combustion Engines, Theory of Machines; C. G. A. Stillaman, Aircraft Materials;

R. Szymanski, Applied Mathematics, Design (Aero-Engines); D. L. Taylor, Pure Mathematics; J. B. Thompson, Pure Mathematics; Titmuss, H., Strength of Aeronautical Materials and Structures; J. A. Tupman, Applied Mathematics, Design (Aircraft); R. A. Vair, Pure Mathematics, Strength of Aeronautical Materials and Structures, Aircraft Materials; J. H. Walmsley, Design (Aircraft); J. Walmsley, Pure Mathematics.

ELECTION OF MEMBERS

Fellows

Henry Paterson Fraser (from Associate Fellow), Stanley George Hooker (from Associate Fellow).

Associate Fellows

Rowland William Angell, Leslie George Bednell, William Norman Blacklock, Frederick Wiliam Robert Bird (from Associate), Francis Charles Bradley (from Associate), Geoffrey Frank Briginshaw (from Graduate), Richard Henry Corthorn Brousson (from Graduate), Cyril Douglas Brown, Cecil John Carter, Horace William Clarke, Athol Henry Fear, Albert Henry Figg (from Graduate), Arthur Ernest Fishlock (from Associate), Frank Leslie Garton, Maurice Alfred Glasspole (from Associate), Leonard Edgar Good, Douglas Gerald Seafield Grant (from Associate), Frederick Rowland Grey, Frederick John Hamilton, Saleh Helmy, Victor Alexander Higgs, Martin Owen Hook, Eric Stanley How (from Graduate), Stanley Peerman Hutton, Thomas Albert Knight, Alfred Stanley Knowles, Mark Dawson Knowles, Peter Stevens MacGregor, Bernard Walter Martin (from Graduate), Harry Maynard (from Graduate), Mahadeo Vinayak Namjoshi, Christopher Bernard Vere Neilson, Sidney Joseph Paine (from Associate), John Joseph Parkes, Cyril Henry Penn, Courtland Davis Perkins. Frederick Noel Pierce, Gordon Powell, Arthur Alfred Puttick, Norman Ring (from Student), Philip Lawton Sumner, Ronald Tatham, Roy Albert Tier (from Student), Frank Lionel Tollow, Cyril Frederick Turner (from Associate), Raymond Hedley Vernon (from Graduate), Reginald Thomas Weatherstone (from Graduate), Francis James Prince Whiting.

Associates

Frederick George Banting, Robert William Warren Buckley, Cyril George Butler, Frank Dixon, Denis Edward Hastwell, Alec Henry Jones, John Gordon Lacey, James Bertram Linton, George Alfred Bertram Lord, Patrick J. McEnery, Ralph Wardle Moore, Michael Pierre Perrelet, Theodore Grimmer Raynham (from Student), Frederick Victor Rehill (from Student), William Robb, Gerard Claughton Roberts, Eric William Saben (from Student), Albert Ernest Trevelyan, Denis Frederick Woor, Geoffrey David Puget Worthington.

Graduates

Derek George Ashwell, William Andrew Baker, Harold Charles Beasley, Alan Edmund Clarke, Douglas Ronald James Colpus (from Student), James Arnot Hamilton, Alfred Dennis Jackson (from Student), Aubrey Frederick Walter Langford, John Rutter Lloyd, Lawrence Halford Warren, Ellis Luckraft 'from Student), Donald Pratt, John Anthony Staunton, Peter John Vinson (from Student).

Students

Charles Crawford Aitkenhead, Denzil Arthur Ashover, Arthur Francis Becker, Frank Blamire, John Lawrence Budd, Roland Frederick Burgers, Anthony Lambert Cole, Eric Lewis Eavis, William M. Giffen, Derek Michael Gladstone, Harold Frederick Hawkins,

NOTICES

Reginald Arthur Hinkley, William Donald Horsfield, Denis Lawrence Lofts, David Muir Mackie, James Parker, David Windsor Parry, Julien Podolski, Peter Robinson, Christopher John Rogers, Ronald Leon Samuels, Kenneth Robin Warren.

Companion

John Michael Storer Keen.

ACKNOWLEDGMENT

The Council acknowledge with grateful thanks the gift of Aeronautica by Monck Mason and a collection of lantern slides from G. W. Simmons, Esq.

ADDITIONS TO THE LIBRARY

Pamphlets in italics with location reference following in brackets. Books marked * or ** may not be taken out on loan.

- A.a.333—Theory of Flight. Richard von Mises. McGraw Hill. 1945.
- B.b.73—Principles of the Helicopter. Dr. Alexander Klemin. Reprint from Aero Digest. Y.3.ivi.
- BB.c.105—Aircraft Propeller Design, F. T. Meacock. Spon. 1947.
- E.d.31—British Standards for Workshop Practice. B. S. Handbook No. 2. British Standards Institute. 1946.
- G.f.33—The story of electric welding. Published by "Sheet Metal Industries" for British Electric & Allied Manufacturers' Association. 1947.
- G.e.E.65—Symposium on the Hardenability of Steel. The Iron & Steel Institute. 1946. G.e.E.66—Crucible Cast Steel. John Vessey & Sons. Sheffield. 1947.
- H.b.92.—The adequacy of the passenger liability limits of the Warsaw convention of 1929. J. Brooks, B. Parker. Reprint from Journal of Air Law & Commerce. Vol. 14. No. 1. 1947. (P.H.1.).
- L.d.116—Notices to Airmen. Nos. 156, 157, 158, 159, 160, 161, 162, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 189.
- *Q.a.173—Catalogue Générale du Centre de Documentation Aéronautique Internationale. Aero Club de France. 1944.
- *Q.a.174—Library Catalogue. 1946. The Bristol Aeroplane Co. 1947.
- UC.5/33—C.S.I.R. Division of Aeronautics. Report S.M.82. The strength of machine parts under fluctuating loads. 1946. M. S. Paterson and H. A. Wills. Aeronautical Laboratory, Melbourne.
- UC.5/34—C.S.I.R. Division of Aeronautics. Report S.M.86. On a method of increasing the rate of convergence of some iteration processes. J.P.O. Silberstein. Aeronautical Laboratory Melbourne. 1947.
- *WB.17/18--Nickel Bulletin. Vol. 18, 1945 Mond Nickel Co. London.

A.R.C. Reports and Memoranda—

- 2104—A mathematical method of cascade design. M. J. Lighthill.
- 2097—A note on the interpretation of V.g. records. P. E. Montagnon, A. Robinson and S. V. Fagg.
- 2126—The "china clay" method of indicating transition. E. J. Richard and F. H. Burstall.

NOTICES

2131-N. P. L. Mach number gauge. D. Giles.

2044-Velocities and speeds through a shock wave. A. Thom and P. R. Owen.

2114—The representation of aerodynamic derivatives. G. Temple.

2075—A theoretical analysis of longitudinal dynamic stability in gliding flight. H. M. Lyon, P. M. Truscott, E. I. Auterson and J. Whatham.

2101—Examples of the application of Busemann's formula to evaluate the aerodynamic force coefficients on supersonic aerofoils. C. N. H. Lock.

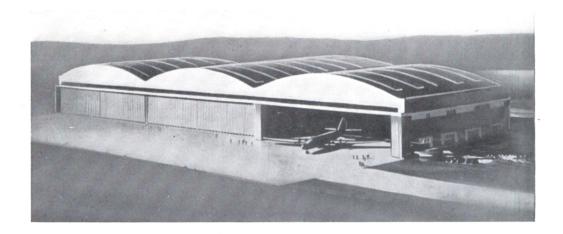
The following reports have also been received: -

Publications Scientifiques et Techniques du Ministère de l'Air.

Bulletins des Services Techniques. No. 109. Notes Techniques. No. 24.

J. Laurence Pritchard,
Secretary.

The World's largest AIRCRAFT ASSEMBLY HALL



The largest aircraft assembly hall in the World is now being built at Filton for the erection of 125 ton giant "Bristol" Brabazon Aircraft. This immense structure, 1,052 feet wide and 420 feet deep, is wider than the length of the QUEEN MARY or the Houses of Parliament and covers 7½ acres. More than 5,000 yards of high and low tension cables for the complex electric power system and 450 main lighting groups are being supplied and installed by B.I.Callender's.

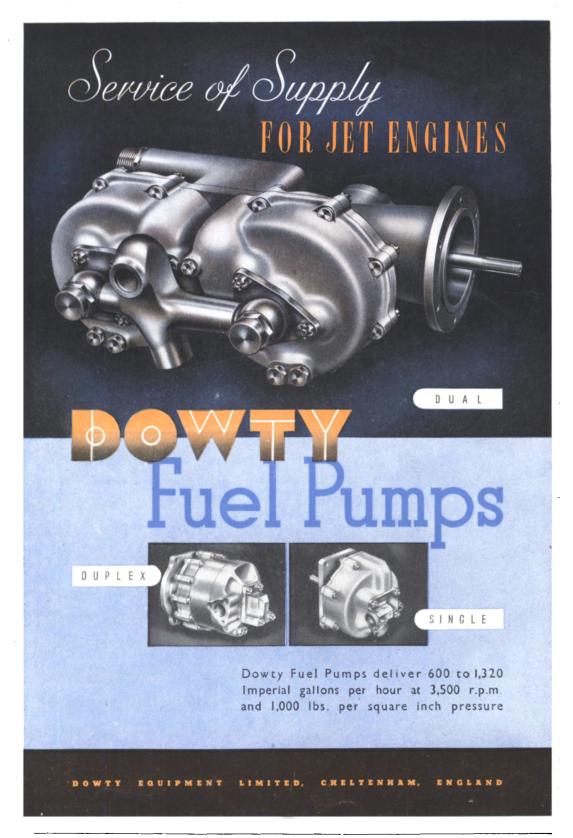
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