

THE CITY UNIVERSITY

DEPARTMENT OF MECHANICAL
ENGINEERING

M.Sc. course in Applied
Thermodynamics
and Fluid Mechanics

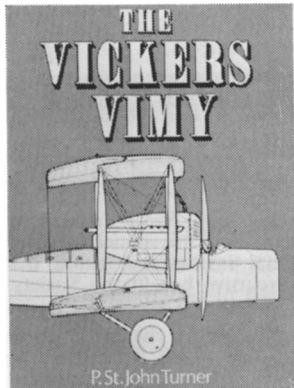
(A two year course of part-time study)

This course is designed for professional technologists who wish to enhance their knowledge of fundamental thermodynamics and fluid mechanics and who may be concerned with new devices and developments in power engineering.

It is a two year course of part-time study together with two short periods of full-time attendance in the University.

Application forms and further details are available from the Secretary, Department of Mechanical Engineering, The City University, St. John Street, London, E.C.1.

Commemorating the 50th Anniversary of
the first non-stop crossing by air of
the Atlantic Ocean by Alcock and Brown



THE VICKERS VIMY
by P. St. John Turner

A comprehensive work on the Vickers FB27 "Vimy" aircraft. Besides a detailed description of the basic RAF bomber version from its inception and design in 1917 and its commercial development, the author gives graphic accounts of the famous Transatlantic flight, the Ross Smith flight to Australia and the pioneering of the air route to South Africa. Also includes a chapter on the reconstruction of the Vimy replica by VAFA. Over 80 illustrations, many never before published, 8 pages of scale drawings and plans, and appendices giving details of performances, weights and dimensions, etc., of the main Vimy versions. 128 pages, 8½" x 5½". Choose from 2 editions. **STANDARD**—hard bound with laminated jacket. 30s. **SPECIAL COMMEMORATIVE 1st EDITION FOR COLLECTORS**—luxuriously hand bound in leather with gold embellishments and limited to only 500 numbered copies. 84s. Published by Patrick Stephens Ltd, 9 Ely Place, London EC1

To: Patrick Stephens Ltd,
9 Ely Place, London EC1

Or: YOUR BOOKSELLER

Please send me one copy of the standard/limited* edition of THE VICKERS VIMY. I enclose my remittance of 30s./84s.* (plus 2s. 6d. post and packing).

NAME

ADDRESS
(Block caps please) (AJ)

*Delete as necessary

Aeronautical Books from Pitman

Thrust for Flight

Wing Commander W. Thomson. 30s. net.

The essentially non-mathematical treatment of this book will make it an invaluable work of interest to aircraft apprentices and all who are interested in the methods of flight propulsion.

The Aeroplane Structure

A. C. Kermode 25s. net.

Second Edition.

The Helicopter and how it flies

John Fay. Second Edition. 20s. net.

Paperback 12s. 6d. net.

Hydrofoils

G. Hook & A. C. Kermode. 32s. 6d. net.

Paperback 25s. net.

Flight without Formulae

A. C. Kermode. Third Edition. 27s. 6d. net.

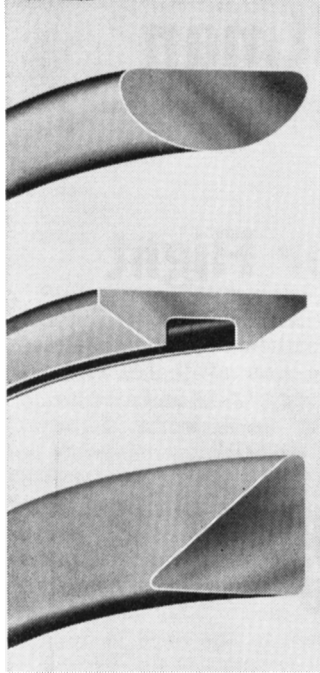
Paperback 17s. 6d.

**SIR ISAAC PITMAN
& SONS LTD.**

The Pitman Publishing Group

Specialists in Specials

Sealing Rings



Call on Cross the specialists in design and manufacture of sealing rings for normal and high temperature application from $\frac{1}{8}$ " to 5' or even larger.

Moving or static.

Materials include Alloy Steels, Nimonic Alloys, Stellite, Aluminium and Plastics.

Outspringers and inspringers.

For further information and advice contact:

CROSS

A.I.D. and A.R.B. approved

CROSS Mfg Co (1938) Ltd
Combe Down Bath BA2 5RR

Phone: COMBE DOWN, 2355/8
 Grams: 'CIRCLE' BATH.

SOUTHALL COLLEGE OF TECHNOLOGY

Beaconsfield Road,
Southall, Middlesex.

MECHANICAL AND PRODUCTION ENGINEERING DEPARTMENT
 Division of Aeronautical Engineering and Air Transport

Suitably qualified men and women with good teaching or industrial experience required from September 1969 for the following additional posts in this expanding Division:

SENIOR LECTURER

graduate/professional engineer to teach to HNC/FTC level, responsible for developing specialised aircraft electrical courses and laboratories.

LECTURER II

professional (aeronautical) electrical engineer to teach to FTC level; recent industrial experience in Aeronautical Electrical Practice (Maintenance and Overhaul) essential.

LECTURER II

professional aeronautical engineer, to teach to FTC level; recent industrial experience in Aeronautical Engineering (Airframe or Power Plant Maintenance) essential. Ability to lecture on Air Legislation or Operational Technology, an advantage.

LECTURERS I (4)

to teach to FTC level in:

- Mechanics of Flight, Aeronautical Engineering Science.
- Aircraft Maintenance and Overhaul, in Airframes and Power Plant.
- Aircraft Production Methods; or Aircraft Materials and Testing Methods.
- Air Legislation; Airfield Organisation.

Salary scale: Senior Lecturer £2365 - £2680 pa
 Lecturer II £1810 - £2365 pa
 Lecturer I £1120 - £1820 pa

Further particulars and application forms (quoting Ref. AJ), returnable within 14 days, from Registrar.



University Life Assurance Society

Established 1825

Incorporated by Royal Charter

The Society offers unique advantages for life assurance to past and present members of Universities, Public Schools, and similar educational institutions within the United Kingdom, for whose exclusive benefit the Society was established.

The Society does not pay commission for the introduction of new business.

Special plans for Students or Young Graduates

The 'Minimax' Policy

Reduced Premium Policy

Young Graduates' Policy

Other plans include

Whole-life and endowment assurance

Educational Policies

Children's Policies

Pension Policies

Family Protection

Annuities

Unit-linked Assurances and Annuities

4 Coleman Street, London, E.C.2

Telephone: 01-606 6225

Branches throughout the United Kingdom



join the men
who lead

Avionic Systems Engineers

We require Avionic Systems Engineers to strengthen the design and development team engaged at Weybridge on avionic systems work, including the development of Lower Weather Minima landing systems. Duties range from the engineering co-ordination of development programmes to the formulation of systems and equipment requirements for new aircraft.

Several years' experience in auto-flight control or other avionic systems is normally required for positions of this type and seniority. In this case, however, careful consideration will be given to applicants who may not possess such closely relevant experience. For the man with the drive and tenacity necessary to effectively contribute to complex development programmes, these posts offer outstanding opportunities for advancement in Europe's leading civil aerospace Company.

Please write for an application form quoting reference AD 17/69/AJ to:



The Personnel Manager,
British Aircraft Corporation,
Weybridge,
Surrey.

BRITISH AIRCRAFT CORPORATION
the most powerful aerospace company in Europe

THE UNIVERSITY OF SUSSEX SCHOOL OF APPLIED SCIENCE Lectureship in Mechanical Engineering

Applications are invited from graduates in Engineering or a related science for a lectureship in Mechanical Engineering in the School of Applied Sciences. Candidates should have an interest and post-graduate experience in kinematics, vibrations, lubrication or generally in **Engineering Dynamics**.

The salary will be in the range £1240×£115 to £2735 per annum.

Application forms and further particulars of the appointment may be obtained from the Secretary of Science, Science Office—(Establishment), University of Sussex, Falmer, Brighton, BN1 9QH, quoting ref. no. 156/3.

2nd April, 1969.

READY SHORTLY...

A MOST IMPORTANT FACSIMILE REPRINT!! ★
THE GERMAN AIR RAIDS ON GREAT BRITAIN 1914-1918
by Captain Joseph Morris. Roy. 8vo. 320 pp.
16 plates. 6 Folding Maps. £9 9s 0d (\$27.00)
Limited edition—Early ordering essential
H. PORDES Publisher and Bookseller
529b Finchley Rd., London, N.W.3
Telephone: 01-435 9878 and 9879

UNIVERSITY OF SOUTHAMPTON

Department of Aeronautics & Astronautics

A number of vacancies exist for Research Students and Research Assistants within the Yacht Research Group. The work relates to the aerodynamics of sails and the hydrodynamics of hulls in both steady and unsteady conditions and is mainly experimental, involving the use of both the wind tunnel and the ship test tank.

Applicants should have a good Honours Degree, or its equivalent, in either Engineering or Naval Architecture and have a reasonable knowledge of Aerodynamics or Fluid Mechanics. Sailing experience is essential. Successful applicants may register for a Higher Degree.

Further information may be obtained from Professor G. J. Goodrich, Department of Aeronautics and Astronautics, The University, Southampton, SO9 5NH. Applications giving the names of two referees, details of age, qualifications and experience should be sent to the Deputy Secretary, The University, Southampton SO9 5NH as soon as possible.

CRANFIELD

Department of Aircraft Propulsion

Applications are invited for appointments as SENIOR LECTURERS/LECTURERS to teach at postgraduate level in the field of GAS TURBINE TECHNOLOGY. Applicants should have a degree or equivalent qualification, together with academic or industrial experience in an appropriate subject such as combustion, heat transfer, engine aerodynamics, turbo-machinery, engine performance or mechanical design. Excellent facilities are available for personal research. Salary according to qualifications and experience within scales £2,760 to £3,410 (senior lecturer); £1,240 to £2,735 (lecturer). F.S.S.U. The College has an estate of modern houses and residential facilities and consideration will be given to accommodation requirements. Application form and further particulars from Assistant Registrar, The College of Aeronautics, Cranfield, Bedford.

CARPETS

for aircraft, passenger reception, airline offices, flying clubs, etc.

All leading makes of Branded Carpets

WILTONS • AXMINSTERS • TUFTED • ORIENTALS

at Highly Competitive contract prices

Expert fitting service and free delivery throughout UK

Over £200,000 stocks in our London showrooms

Private individuals in the aircraft industry may purchase from us at up to 30% DISCOUNT

Dodson Bull CARPET CO LTD

LONDON: 5 & 6 Old Bailey, E.C.4. Tel: 01-248 7971 (10 lines)

NEWCASTLE-UPON-TYNE: 83-89 Blackett St. Tel: 20321/21428

MANCHESTER: 55-61 Lever Street. Tel: 061-236 3687/8/9

DIRECTORY OF ADVERTISERS

| | |
|---|--|
| <p>AIRCRAFT MATERIALS LTD. Midland Road, London, N.W.1. 01-387 6151</p> <p>BEAGLE AIRCRAFT LTD. Shoreham Airport, Shoreham-by-Sea, Sussex. Shoreham 2301 Rearsby Aerodrome, Rearsby, Leicestershire. 0664-74 321</p> <p>B.P. AVIATION SERVICE, SHELL-MEX AND B.P. LTD. Shell-Mex House, Strand, London, W.C.2. 01-836 1234</p> <p>BRISTOL ENGINE DIVISION, ROLLS-ROYCE London Office: Mercury House, 195 Knightsbridge, S.W.1. 01-589 7090 Bristol: P.O. Box 3, Filton, Bristol. 0272 693871 Coventry: P.O. Box 17, Coventry, Warwickshire. 0203 28666</p> <p>BRITISH AIRCRAFT CORPORATION 100 Pall Mall, London, S.W.1. 01-930 1020</p> <p>BRITISH OVERSEAS AIRWAYS CORPORATION Head Office: London Airport, Hounslow, Middx 01-759 5511</p> <p>CHATTO & WINDUS 42 William IV Street, London, W.C.2. 01-836 7669</p> <p>CROSS MANUFACTURING CO. (1938) LTD. Combe Down, Bath, Somerset. 02213 2355/8</p> <p>THE DECCA NAVIGATOR COMPANY LTD. 9 Albert Embankment, London, S.E.11. 01-735 8111</p> <p>DOWTY GROUP LTD. Cheltenham, Glos. 0452 21511</p> <p>THE DUNLOP CO. LTD. AVIATION DIVISION Holbrook Lane, Foleshill, Coventry. 0203 88733</p> <p>ELECTRO-HYDRAULICS LTD. Liverpool Road, Warrington. 0925 35922</p> <p>HAWKER SIDDELEY AVIATION LTD. Richmond Road, Kingston upon Thames. 01-546 7741 32 Duke Street, St. James's, S.W.1. 01-930 2064</p> | <p>HIGH DUTY ALLOYS LTD. Slough, Bucks. 75 23901</p> <p>HOBSON, H. M., LTD. Hobson Works, Fordhouses, Wolverhampton. 09078 2381</p> <p>IRVING AIR CHUTE OF GREAT BRITAIN LTD. Icknield Way, Letchworth, Herts. 04626 6282</p> <p>PERGAMON PRESS LTD. Headington Hill Hall, Oxford. 0092 64881</p> <p>PITMAN, SIR ISAAC & SONS LTD. 39 Parker Street, London, W.C.2. 01-405 9791</p> <p>ROBERT RILEY LTD. Milkstone Spring Works, Rochdale. 0706 44551</p> <p>ROLLS-ROYCE LTD. P.O. Box 31, Derby DE2 8BJ. 0332 42424 14-15 Conduit Street, London, W.1. 01-829 6201</p> <p>ROSEMOUNT ENGINEERING CO. LTD. Durban Road, Bognor Regis, Sussex. Bognor Regis 4101-4</p> <p>ROTAX LTD. Willesden Junction, London, N.W.10. 01-965 7777</p> <p>SAUNDERS VALVE COMPANY LTD. Aircraft Division, Widemarsh Common, Hereford. 0432 3125-8</p> <p>SHELL AVIATION SERVICES, SHELL-MEX AND B.P. LTD. Shell-Mex House, Strand, London, W.C.2. 01-836 1234</p> <p>SMITHS INDUSTRIES LTD. (AVIATION DIVISION) Kelvin House, Wembley Park Drive, Wembley, Middx. 01-902 8888</p> <p>UNION CARBIDE U.K. LTD. Flame Plating Department, Millers Road, Warwick. 0926 41780</p> <p>UNIVERSITY LIFE ASSURANCE SOCIETY 4 Coleman Street, London, E.C.2. 01-606 6225</p> <p>WESTLAND HELICOPTERS LTD. Yeovil, Somerset. 0935 5222</p> |
|---|--|

E
S
D
U

FLUID MECHANICS AERODYNAMICS HEAT TRANSFER

**Does your work lack challenge? Are your abilities under-employed?
Does your work lack variety? Do your surroundings inhibit you?**

DO YOU WANT TO APPLY TECHNICAL KNOWLEDGE TO DESIGN ?

If you answered YES to any of these questions, you may be one of the men we want. We need energetic and capable engineers able to anticipate design requirements and to prepare authoritative design procedures to meet those needs. The work involves detailed technical assessment and development of theoretical methods together with the correlation of experimental data and is carried out in close collaboration with acknowledged experts. It requires men with a degree, or equivalent qualification, in the age range 25-32. It requires good men who command a good salary at Engineer or Senior Engineer Grade.

There are vacancies in the three broad areas above. If you would like further details of these progressive posts why not visit us for an informal discussion. Write to:-

Dr. Anthony J. Barrett
Director
Engineering Sciences Data Unit
Royal Aeronautical Society
251-9 Regent Street
London, W1R 7AD

We plant aluminium acorns.



Our kind of acorns grow into great big profits – *your* profits. Branches of our activities include forgings, die-castings, extrusions and sheet – in various shapes and for many uses. We know we can help you so drop us a line and we'll gladly tell you more.

HDA
HIGH DUTY ALLOYS LIMITED,
SLOUGH, BUCKS

 **HAWKER SIDDELEY
COMPANY**

Hawker Siddeley Group supplies mechanical, electrical and aerospace equipment with world-wide sales and service.

Visitez Hobson au 28^e Salon International de l'Aéronautique * et de l'Espace à Paris

29 Mai-8 Juin 1969



Hobson
ESTABLISHED 1903

Designers and Manufacturers of
Powered Flying Controls.
Constant Speed Alternator Drives.
Feel Simulator Control Units.
Flap Operating Systems.
Recirculating Ball Screw Jacks.
Fuel Flow Proportioners.
Fuel Booster Pumps.
Electro-hydraulic Servo Actuators.
Gas Turbine Engine Accessories.

* **Stand 28-Hall C3**

H. M. HOBSON LIMITED, FORDHOUSES, WOLVERHAMPTON

PRINTED BY THE LEWES PRESS WIGHTMAN & CO. LTD., LEWES, SUSSEX, ENGLAND, AND PUBLISHED
BY THE ROYAL AERONAUTICAL SOCIETY, 4 HAMILTON PLACE, LONDON, W1V 0BQ, ENGLAND.