

Library Additions



November/December 2003

BOOKS

Air Law

Law and Policy of Substantial Ownership and Effective Control of Airlines: Prospects for Change. I. Lelieur. Ashgate Publishing, Gower House, Croft Road, Aldershot, Hants GU11 3HR, UK. 2003. 178pp. £45. ISBN 0-7546-3548-1.

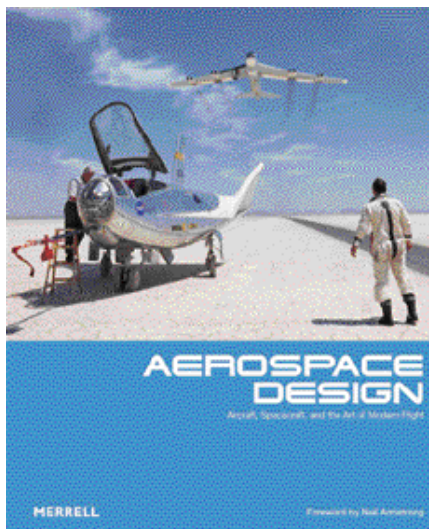
Air Transport

Market Analysis of Europe's Low Cost Airlines: An examination of trends in the economics and operating characteristics of Europe's charter and no-frills scheduled airlines. Research Report 9. G. Williams *et al.* Cranfield University — Air Transport Group, Cranfield, Bedfordshire MK43 0AL, UK. 2003. 153pp. Illustrated. £350. *A sequel to Cranfield's January 2000 report on Europe's Low Cost Airlines, this study summarises recent trends in this growing sector of the airline industry and concludes with a number of graphical and tabular comparisons between the performance of individual operators.*

Evolution of International Aviation: Phoenix Rising. D.L. Rhoades. Ashgate Publishing, Gower House, Croft Road, Aldershot, Hants GU11 3HR, UK. 2003. 193pp. £35. ISBN 0-7546-3785-9.

A Human Error Approach to Aviation Accident Analysis: the Human Factors Analysis and Classification System. D.A. Wiegmann and S.A. Shappell. Ashgate Publishing, Gower House, Croft Road, Aldershot, Hants GU11 3HR, UK. 2003. 165pp. Illustrated. £19.95. ISBN 0-7546-1873-0.

Jane's Airlines and Airliners. J. Flack. HarperCollins Publishers, 77-85 Fulham Palace Road, Hammersmith, London W6 8JB, UK. 2003. 240pp. Illustrated. £30. ISBN 0-00-715174-8. *Illustrated with colour photographs throughout, this volume comprises an alphabetically-arranged directory of the world's major airlines with concise details of their operations and fleets.*



British Commercial Aircraft: their Evolution, Development and Perfection 1920-1940. A.W.J.G. Ord-Hume. GMS Enterprises, 67 Pyhill, Peterborough PE3 8QQ, UK. 2003. 702pp. Illustrated. £80. ISBN 1-870384-94-6.

100 Years of Civil Aviation. International Civil Aviation Organization. International Systems and Communications, 36 Grosvenor Gardens, London SW1W 0EB, UK. 2003. 312pp. Illustrated.

The expansion of international civil air transport since 1944 is reviewed in this compilation of concisely illustrated articles surveying developments in CNS/ATM systems, aviation security, environmental concerns, air cargo and ground handling among other subjects concluding with a region-by-region global survey (North America, Latin America, Asia-Pacific, Europe, Africa and the Middle East).

Sources of Information in Transportation — Air Transportation — Fifth edition. US Department of Transportation — Bureau of Transportation Statistics, 400 Seventh St SW, Washington DC, 20590, USA. 2002. 83pp. *A bibliographical survey of references (books, reports, journals, Internet sites) to air transport developments in the United States and Canada.*

Report of the Worldwide Air Transport Conference: Challenges and Opportunities of Liberalization, Montreal, 24-28 March 2003. ICAO Doc 9819. International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2003. 90pp.

Aircraft Nationality and Registration Marks. Annex 7 to the Convention on International Civil Aviation — Fifth edition. International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2003. 10pp.

Fleet — Personnel: Commercial Air Carriers 2001. ICAO Digest of Statistics No 504. International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2003. Irregular pagination.

Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services — 125th edition. ICAO Doc 8585/125. International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2003. Irregular pagination.

Aeronautical Information Services. Annex 15 to the Convention on International Civil Aviation — 11th edition. International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2003. Irregular pagination.

Aeronautical Information Services Manual — Sixth edition. ICAO Doc 8126. International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2003. Irregular pagination.

Training Guidelines for Aircraft Accident Investigators. ICAO Circ 298. International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2003. 13pp.

Location Indicators — 108th edition. ICAO Doc 7910/108. International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2003. Irregular pagination.

Tariffs for Airports and Air Navigation Services 2002. ICAO Doc 7100 (2002). International Civil Aviation Organization, 999 University Street, Montreal, Quebec, Canada, H3C 5H7. 2003. Irregular pagination.

Aircraft Design and Construction

AIAA Aerospace Design Engineers Guide — Fifth edition. AIAA Design Engineering Technical Committee. American Institute of Aeronautics and Astronautics, 1801 Alexander Bell Drive, Reston, VA 20191, USA. 2003.

Irregular pagination. Illustrated. \$29.95 (AIAA members), \$49.95 (non-members). ISBN 1-56347-590-1.

A revised and enlarged edition of this useful compilation of basic technical data and formulae (including material, mechanical, structural and electrical considerations) to assist in the design of aircraft, rotorcraft, spacecraft and air breathing propulsion systems.

Aircraft Interiors International: the International Review of Aircraft Interior Design and Completion — September 2003. Edited by A. James. UK & International Press, Abinger House, Church Street, Dorking, Surrey RH4 1DF, UK. 2003. 88pp. Illustrated. £65 (annual subscription). ISSN 1463-8932. *In-flight catering, Virgin Atlantic's Upper Class Suite and aircraft textile furnishings are among the subjects reviewed in the latest edition of this informative compilation of concise articles surveying the latest developments in aircraft interior design and furnishings.*

Avionics and Systems

Principles of Avionics — Second edition. A. Helfrick. Avionics Communications, PO Box 2628, Leesburg, VA 20177, USA. 2002. 384pp. Illustrated. ISBN 1-885544-17-0. \$89.

Avionics Databases — Second edition. Edited by L. Buckwalter. Avionics Communications, PO Box 2628, Leesburg, VA 20177, USA. 2003. Irregular pagination. Illustrated. ISBN 1-885544-15-4. \$89.

Recent developments in databus architectures and descriptions of a number of particular current systems — including ARINC 429, ARINC 629 (DATAC), MIL-STD-1553, SAFEbus (ARINC 659), ASCB (Avionics Standard Communications Bus), CSDB (Commercial Standard Digital Bus), Eurofighter EFABus (Stanag 3910) and AFDX (Avionics Full Duplex Ethernet) — are summarised in this volume.

Flight Testing

Flight Testing of Fixed-Wing Aircraft. R.D. Kimberlin. American Institute of Aeronautics and Astronautics, 1801 Alexander Bell Drive, Reston, VA 20191, USA. 2003. 435pp. Illustrated. \$74.95 (AIAA members), \$89.95 (non-members). ISBN 1-56347-564-2.

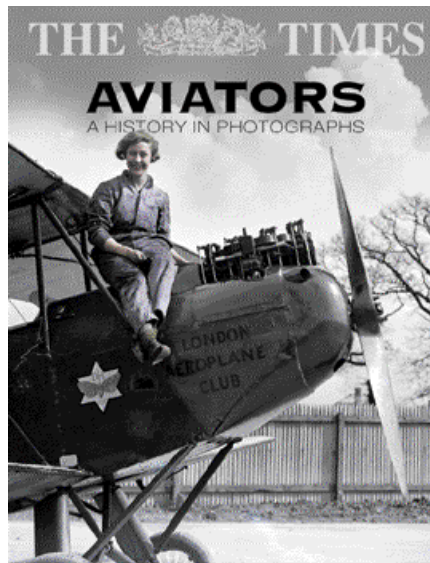
Historical

Aerospace Design: Aircraft, Spacecraft and the Art of Modern Flight. Edited by A.M. Springer. Merril Publishers, 42 Southwark Street, London SE1 1UN, UK. 2003. 192pp. Illustrated. £29.95. ISBN 1-85894-207-1. *Published as a companion to an exhibition at the Art Institute of Chicago commemorating the contribution of NACA/NASA to aeronautical research, various leading American aviation historians (including Tom D. Crouch, John D. Anderson, D.A. Pisano, J.R. Hansen, M.H. Gorn and D.R. Jenkins) survey the history of aircraft design in America (including developments in wind tunnels and flight testing) and its potential future developments in this well-illustrated book.*

The Times Aviators: a History in Photographs. M.J.H. Taylor. Times Books, HarperCollins Publishers, 77-85 Fulham Palace Road, Hammersmith, London W6 8JB, UK. 2003. 192pp. Illustrated. £18.99. ISBN 0-00-716124-7.

A pictorial history — illustrated by 188 captioned photographs (75 of which are from the Royal Aeronautical Society Library's archive) — of the development of aviation from prehistory through to modern times.

Aircraft. D. Pascoe. Reaktion Books, 79 Farringdon Road, London EC1M 3JU, UK. 2003. 240pp. Illustrated. £14.95. ISBN 1-86189-163-6. *An aesthetic history of the development of aircraft design and the impact aviation has had on artists, architects, politicians and society in general.*



British Flying Boats. P. London. Sutton Publishing, Phoenix Mill, Thrupp, Stroud, Gloucestershire GL5 2BU, UK. 2003. 298pp. Illustrated. £25. ISBN 0-7509-2695-3.

20 Hrs, 40 Min: Our Flight in the 'Friendship'. A. Earhart. National Geographic, 1145 17th Street NW, Washington DC, 20036-4688, USA. 2003. Distributed by Hi Marketing, 38 Carver Road, London SE24 9LT, UK. 2003. 182pp. Illustrated. £8.99. ISBN 0-7922-3376-X. *A welcome new edition of Amelia Earhart's account of her flight as the first woman passenger to fly across the Atlantic aboard the Fokker F.VIIB-3m tri-motor Friendship during 17-18 June 1928 — 2,246 miles in 20 hours 49 minutes (Earhart's actual logbook time) — in the company of Wilmer Stultz (pilot) and Louis Edward 'Slim' Gordon (flight mechanic).*

Earhart's Flight into Yesterday: the Facts without the Fiction. L. Safford, C.A. Warren and R.R. Payne. Paladwr Press, 1906 Wilson Lane, Apt. 101, Mclean, VA 22102-1957, USA. 2003. 207pp. Illustrated. \$30. ISBN 1-888962-20-8. *A detailed re-examination of the evidence surrounding the disappearance of Amelia Earhart over the South Pacific on 2 July 1937 while flying a Lockheed Electra on her second attempt to become the first woman to fly around the world.*

The Lancaster Manual: The Official Air Publication for the Lancaster Mk I and III, 1942-1945. Edited by M.A. Fopp. Greenhill

Books, Lionel Leventhal, Park House, 1 Russell Gardens, London NW11 9NN, UK. 2003. 530pp. Illustrated. £25. ISBN 1-85367-568-7.

Originally published as Air Ministry Air Publication 2062A&C Vol 1 and later reprinted by Arms and Armour Press in 1977, this is a welcome new edition — illustrated by additional photographs — of this reference work on the design, flight controls and systems of the famous bomber aircraft.

Charles E. Taylor 1868-1956 — The Wright Brothers Mechanician. H.R. DuFour and P.J. Unitt. Distributed by Wright State University Libraries, 3640 Colonel Glenn Hwy, Dayton, OH 45435-0001, USA. 2002. 195pp. Illustrated.

Illustrated throughout with contemporary photographs, this is an informative biography of the man who assisted Wilbur and Orville Wright in the development of the engine for the original 1903 Flyer and with their later aircraft designs.

Wings of Madness: Alberto Santos-Dumont and the Invention of Flight. P. Hoffman. Fourth Estate, HarperCollins Publishers, 77-85 Fulham Palace Road, Hammersmith, London W6 8JB, UK. 369pp. Illustrated. £18.99. ISBN 1-84115-368-0.

Léon Delagrangé: le "Dandy Volant". O. Delagrangé and Y. Delagrangé. Editions Larivière, 12 Rue Mozart, 92587 Clichy Cedex, France. 2003. 160pp. Illustrated. 35 Euros/€35. ISBN 2-914205-75-9.

Illustrated throughout with numerous photographs, this is an informative biography of the sculptor who became a leading pioneer pilot and aircraft designer and died at Croix-d'Hins near Bordeaux on 4 January 1910 when the wings of the Bleriot XI he was flying collapsed.

L'Eole de Clément Ader: chauve-souris ou canard? J-P. A. Saint Amand. Association de Documentation Aéronautique, 2 rue Leneveux 75014, Paris. 2003. 64pp. Illustrated. 8 Euros. ISBN 2-915182-00-0.

A re-examination of Ader's flight experiments with the Eole tractor monoplane which took place in the grounds of the chateau Gretz-Armainvilliers in 1890.

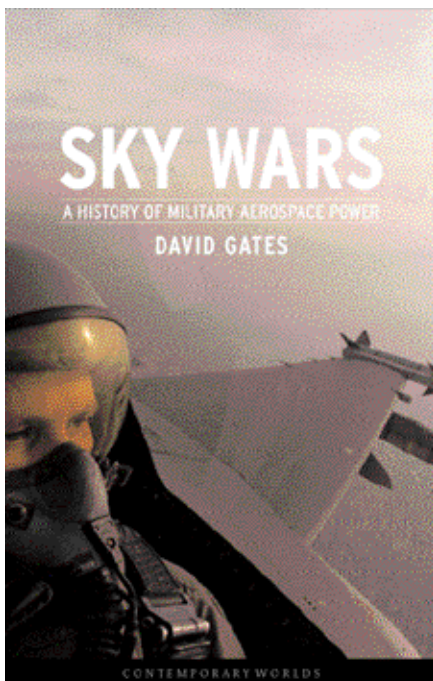
The Jacques Perier Collection. Dayton Art Institute 456 Belmonte Park North, Dayton, OH 45406-4700. USA. 2003. 22pp. Illustrated.

Colour reproductions of a number of early posters and lithographs from the pioneering days of aviation in Europe are reproduced in this companion exhibition guide.

The Mystery of the Cancellation of the Miles M.52 (E24/43) Contract by the Ministry of Supply in March 1946: and the true, but almost unbelievable, reason which only emerged 50 years later. Parts 1-2. D.S. Bancroft. Published by the author, Treraven, St Clether, Launceston, Cornwall PL15 8PX, UK. 1997-1999. 60pp.

Propulsion

The AeroShell Book — 18th edition. Shell Aviation, OIAM/L, Shell Centre, York Road, London SE1 7NA, UK. 2003. 373pp. *The latest edition of this informative reference*



work summarising the characteristics/specifications of aviation fuels, engine oils (piston and turbine), greases, preservatives, hydraulic fluids and other lubricants supplied by AeroShell.

Aircraft Engine Emissions. JAR-34 — Initial issue. Joint Aviation Authorities, PO Box 3000, 2130 KA Hoofddorp, The Netherlands. 2003. Distributed by Rapidoc, Willoughby Road, Bracknell, Berkshire RG12 8DW, UK. Irregular pagination.

Rotorcraft

Practical Helicopter Engineering Flight Test: a description of the practical, easily understood methodology for typical helicopter testing and problem resolution — Second edition. A. Teleki. Published by the author, La Grandchane, F-26560, Séderon, France. 2003. 167pp. Illustrated. ISBN 2-9519976-0-4.

Helicopter Flight Training Devices. JAR-STD 2H — Initial issue. Joint Aviation Authorities, PO Box 3000, 2130 KA Hoofddorp, The Netherlands. 2003. Distributed by Rapidoc, Willoughby Road, Bracknell, Berkshire RG12 8DW, UK. Irregular pagination.

Very Light Rotorcraft. JAR-VLR — Initial issue. Joint Aviation Authorities, PO Box 3000, 2130 KA Hoofddorp, The Netherlands. 2003. Distributed by Rapidoc, Willoughby Road, Bracknell, Berkshire RG12 8DW, UK. Irregular pagination.

Service Aviation

Sky Wars: a History of Military Aerospace Power. D. Gates. Reaktion Books, 79 Farringdon Road, London EC1M 3JU, UK. 2003. 224pp. £14.95. ISBN 1-86189-189-X. *A concise history of the development of air power and its major effect on political, economic and defence considerations.*

'The Greatest Squadron of Them All': The Definitive History of 603 (City of Edinburgh) Squadron, RAuxAF. Vol 1 — Formation to the End of 1940. Vol 2 — 1941 to Date. D. Ross, B. Blanche and W. Simpson. Grub Street, The Basement, 10 Chivalry Road, London SW11 1HT, UK. 2003. 384pp; 416pp. Illustrated. £30 per volume. ISBN 1-904010-49-0; ISBN 1-904010-51-2.

Illustrated by over 200 photographs per volume, a detailed history of this squadron's history — the highest scoring squadron in the Battle of Britain — from its formation in October 1925 through to its post-war role as a leading Royal Auxiliary Air Force Squadron.

RAF Hunters in Germany: Front Line Defenders in the Cold War. G. Kipp and R. Lindsay. Distributed by R. Lindsay, 7 North Meadow, Hutton Rudby, North Yorkshire TS15 0LD, UK. 2003. 71pp. Illustrated. £14.95 plus £1.55 postage/packing. ISBN 0-9544069-0-7. *A detailed history of the air operations of the Hunter fighter aircraft in Germany between 1955 and 1984.*

A Separate Little War: The Banff Coastal Command Strike Wing versus the Kriegsmarine and Luftwaffe 1944-1945. A.D. Bird. Grub Street, The Basement, 10 Chivalry Road, London SW11 1HT, UK. 2003. 192pp. Illustrated. £18.99. ISBN 1-904010-43-1. *Incorporating the recollections of many who were involved, this is a detailed history of Coastal Command's WW2 operations from Banff aerodrome in northern Scotland against German targets along the coast of Norway.*

Under the Guns of the Kaiser's Aces: Bohme, Muller, Von Tutschek and Wolff — the Complete Record of their Victories and Victims. N. Franks and H. Giblin. Grub Street, The Basement, 10 Chivalry Road, London SW11 1HT, UK. 2003. 192pp. Illustrated. £20. ISBN 1-904010-02-4.

Completing a trilogy of volumes on the German aces of WW1, this book records the lives of over 100 Allied airmen shot down by these leading German pilots, all of whom received the Blue Max.

Space

International Satellite Directory 2003. Vol 1 — The Satellite Industry; Vol 2 — Satellite Systems and Operators — 18th edition. Edited by V. Labrador *et al.* Satnews Publishers, 800 Siesta Way, Sonoma, CA 95476, USA. 2003. 502pp; 371pp + diskette. \$395. ISBN 0-936361-29-8.

The contact addresses/numbers/personnel of over 9,000 companies involved in the world's satellite industry (including manufacturers, operators, service providers) are recorded in the latest edition of this directory which includes technical summaries of over 450 satellites currently in operation.

Satellite Communications in the 21st Century: Trends and Technologies. Progress in Aeronautics and Astronautics Vol 202. Edited by T. Iida *et al.* American Institute of Aeronautics and Astronautics, 1801 Alexander Bell Drive, Reston, VA 20191, USA. 2003. 205pp. Illustrated. \$59.95 (AIAA members), \$79.95 (non-members). ISBN 1-56347-579-0.

Analytical Mechanics of Space Systems. H. Schaub and J.L. Junkins. American Institute of Aeronautics and Astronautics, 1801 Alexander Bell Drive, Reston, VA 20191, USA. 2003. 711pp. Illustrated. \$74.95 (AIAA members), \$99.95 (non-members). ISBN 1-56347-563-4.

Structures and Materials

Finite Element Multidisciplinary Analysis — Second edition. K.K. Gupta and J.L. Meek. American Institute of Aeronautics and Astronautics, 1801 Alexander Bell Drive, Reston, VA 20191, USA. 2003. 417pp. Illustrated. \$64.95 (AIAA members), \$89.95 (non-members). ISBN 1-56347-580-4.

Fatigue of Structures and Materials. J. Schijve. Kluwer Academic Publishers, PO Box 17, 3300 AA Dordrecht, The Netherlands. 2001. 513pp. Illustrated. £127.50. ISBN 1-7923-7013-9.

'Adopt'

a Library Book or Journal

Since its formation in 1866, the Royal Aeronautical Society has been acquiring aeronautical books, journals and other material which are now housed in its extensive library.

Owing to a combination of age and use, a number of the older volumes in the library are in a worn condition and require rebinding.

These books and journals date primarily from pre-1945 and form a major collection of the world's aeronautical heritage which should be preserved for current and future generations of researchers.

The average cost of rebinding a worn volume is about £30, depending on its size and condition. Anyone who would like to contribute to rebinding costs will have their donation recorded on the bookplate inside the particular rebound volume. **If you would like to 'adopt' a book or journal (possibly in memory of someone else) please contact Brian Riddle, RAeS Library, 4 Hamilton Place, London W1J 7BQ, UK. Tel: +44 (0)20 7670 4300. Fax: +44 (0)20 7670 4359. e-mail: library@raes.org.uk**

PAPERS

Cinema and British Imperial Civil Aviation, 1919-1939: Extract from Historical Journal of Film, Radio and Television Vol 23 (2) 2003. G.H. Pirie. pp 117-131.

REPORTS

Aerodynamics

Vortex flows at supersonic speeds. R.M. Wood *et al.* NASA TP-2003-211950. March 2003.

Aerospace engineering

Low cost Mars surface exploration: the Mars Tumbleweed. J. Antol *et al.* NASA TM-2003-212411. August 2003.

Capabilities of the Materials Contamination Team at the Marshall Space Flight Center. H.D. Burns *et al.* NASA TP-2003-212634. July 2003.

Communications

Space engineering. Multipaction design and test. ECSS-Q-20-01A. 5 May 2003.

Management

Harmonisation of European space technology. From concept to master plan. ESA BR-203. June 2003.

Space product management. Project breakdown structures. ECSS-M-10B. 13 June 2003.

Space product management. Project organization. ECSS-M-20B. 13 June 2003.

Materials

Etude et modélisation du compartement mécanique de la matrice polymère dans un composite à fibres de carbone sous compression transverse. S. Chambaudet. ONERA NT 2003-3. 2003.

Analyse multiéchelle du comportement mécanique des Composites à Matrice Organique et effets du vieillissement thermique. A. Schieffer. ONERA NT 2003-4. 2003.

Technology Transfer Programme — A thread from space to your body. ESA BR-184(XIV). June 2003.

Testing facilities and techniques

Etude de faisabilité d'un contrôle santé intégré de plaques composites sandwich utilisant des ondes de Lamb. D. Devillers. ONERA NT 2003-2. 2003.

Library's photographic collections



The Royal Aeronautical Society's Library holds a very extensive photographic/glass lantern slide/lithographic collection of aviation images (over 100,000) from the early days of ballooning through to current aircraft, missiles and rockets, including a number of portrait photographs of aviation personalities. Prints from the collection can be supplied to members and non-members on a fee basis for reproduction in books, journals, CD-ROMs, Internet sites, lecture slides or for use as presentation prints.

All enquiries regarding the Library should be addressed to: Brian Riddle, Librarian, Royal Aeronautical Society, 4 Hamilton Place, London W1J 7BQ, UK. Tel: +44 (0)20 7670 4362. Fax: +44 (0)20 7670 4359. e-mail: brian.riddle@raes.org.uk.

USAF Fairchild XC-120 Pack Plane (two Pratt & Whitney R-4360 engines) c.1950. An experimental prototype development of the Fairchild C-119 Packet, the military transport aircraft could be flown with or without its detachable lower fuselage cargo compartment which can be seen in the background of the photograph.

Library Additions is designed to keep members of the Royal Aeronautical Society informed of the latest acquisitions of the library at its headquarters: 4 Hamilton Place, London. The contents include those books, symposia, pamphlets, papers, videos, reports and UK patent applications added to the library in the two months prior to publication. **Library Additions** is published bi-monthly in **The Aerospace Professional**. A pdf version is available on the Society's website: <http://www.aerosociety.com>.

Access to the library is free to individual members, members of Engineering Council institutions as well as employees of member companies of the Royal Aeronautical Society's Corporate Partners scheme, while others pay a small daily access fee.

The Library's extensive catalogue of books, proceedings, technical reports since 1980, photographs and slides is now available to members via the Society's website, <http://www.aerosociety.com>.

For further information about the library or **Library Additions** please contact: **Brian Riddle, RAeS Library, 4 Hamilton Place, London W1J 7BQ, UK. Tel: +44 (0)20 7670 4300. Fax: +44 (0)20 7670 4359. e-mail: library@raes.org.uk.**