Library Additions

March/April 2013

BOOKS

AERODYNAMICS


AEROMODELLING

The development of model-making in Britain is reflected in this history of one shop’s changing business over 75 years and its founder’s notable contribution to model aircraft flying including his designs for the Wakefield Cup.

AIR LAW


AIR TRANSPORT


AIRCRAFT DESIGN AND CONSTRUCTION


AVIONICS AND SYSTEMS


FLIGHT TESTING


GROUND EFFECT VEHICLES


GUIDED FLIGHT

LIGHTER-THAN-AIR


HISTORICAL


SERVICE AVIATION


SPACE


UNMANNED AERIAL VEHICLES


SYMPOSIA


REPORTS

Avionics and Systems


Aircraft approach procedures based on a Ground Based Augmentation System (GBAS) are described in this thesis.

Language

Addressing the problem of language translation in aviation, a domain-specific modelling language AMAN-ML (Arrival Management Modelling Language) to aid air traffic controllers is described in this thesis.

Remote Sensing

Using a novel P-band synthetic aperture polarimetric radar sensor, the Biomass mission aims to take measurements of Earth’s forest biomass to assess terrestrial carbon stocks and fluxes.


The Cold Regions Hydrology high-resolution Observatory (CoReH2O) will be the first satellite mission dedicated to making global measurements of freshwater stored in snow to improve the modelling and prediction of water balance and streamflow for snow-covered and glacierised basins.

Physics


Transport

A quantitative approach to analyse the potential impact and consequences (including the costs involved) of extreme weather conditions on road, rail, air, inland waterways and maritime shipping is outlined in detail.
Library’s photographic collections

The A.R.9 [Air-cooled Radial] (later known as Aries [left and centre right]) introduced c.1933 was one of a series of seven-cylinder and nine-cylinder single-row poppet-valve radials including the A.R.7 Aquarius (bottom right), Scorpio and Libra and their variants produced in limited numbers by the reconstituted Birmingham-based company Wolseley Motors (1927) Limited which, later known as Wolseley Aero Engines Ltd, ceased manufacturing in August 1936.

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. Scanned images 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, Chief Librarian, National Aerospace Library, The Hub, Fowler Avenue, IQ Farnborough, Hants GU14 7JP, UK. T +44 (0)1252 701060. F +44 (0)1252 894894. E brian.riddle@aerosociety.com.