ISSN 0001-9240

AIRBUS

THE AERONAUTICAL JOURNAL

Covering all aspects of aerospace

Volume 120 Number 1223 January 2016

This special issue marks the 150th anniversary of the Royal Aeronautical Society



ROYAL AERONAUTICAL SOCIETY
2016 • CELEBRATING 150 YEARS

CAMBRIDGE UNIVERSITY PRESS

https://doi.org/10.1017/aer.2016.2 Published online by Cambridge University Press

THE AERONAUTICAL JOURNAL

Editor-in-Chief: Professor Peter Bearman

Associate Editors

Chairman: Professor Mike Graham
Deputy Chairman: Professor Chris Atkin

Editorial Board

Professor Christian Allen
University of Bristol

Wg Cdr Mike Bratby
RAeS Air Power Group

Professor Laurent Dala
Council for Scientific & Industrial Research (CSIR) Pretoria, South Africa

Chris Fielding
Consultant, ex-BAE Systems

Professor Victor Giurgiutiu
University of South Carolina

Professor Ismet Gursul
University of Bath

Professor Michael Henshaw
Loughborough University

Dr M R Nayak
National Aerospace Laboratories, India

Professor Srinivasan Raghunathan
Queen's University, Belfast

Professor Shahrokh Shahpar
Rolls-Royce, Derby

Professor Constantinos Soutis
University of Manchester

Professor Holger Babinsky
University of Cambridge

Professor Jonathan Cooper
University of Bristol

Professor Dimitris Drikakis
University of Strathclyde

Professor Antonio Filippone
University of Manchester

Dr Guy Gratton
Brunel University

Professor Keith Hayward
Former Head of Research, RAeS

Professor Konstantinos Kontis
University of Glasgow

Dr Richard Markiewicz
DSTL

Mark Price
Queen's University Belfast

Professor Gareth Padfield
University of Liverpool

Dr Arthur Richards
University of Bristol

Professor Kenichi Rinoie
University of Tokyo

Professor Howard Smith
Cranfield University

Professor Constantinos Stavrinidis
European Space Agency

Professor Rene de Borst
University of Glasgow

Peter Curtis
Aircraft Research Association

Professor Brian Falzon
Queen's University, Belfast

Professor Ed Galea
Greenwich University

Dr John Green
Consultant Chief Scientist, ARA

Professor Li He
University of Oxford

Professor Jim McGuirk
Loughborough University

Dr Richard Markiewicz
DSTL

Professor Ning Qin
University of Sheffield

Carl Russell
NASA Ames, USA

Professor Marilyn Smith
Georgia Institute of Technology, USA

Professor Anthony Waas
University of Washington, USA

Aims and scope

The aims and scope of *The Aeronautical Journal* are intended to reflect the objectives of the Royal Aeronautical Society as expressed in its Charter of Incorporation. Briefly, these are to encourage and foster the advancement of all aspects of aeronautical and space science. Thus the topics of *The Aeronautical Journal* include most of those covered by the various Specialist Groups of the Society. Topics covered in *The Aeronautical Journal* include:

Aircraft design, aerodynamics, air law, air power, air transport, air navigation, airworthiness and maintenance, aviation medicine, avionics and systems, composites, environmental issues, flight operations, flight simulation, fluid dynamics, fluid mechanics, general aviation, guided flight, human factors, human powered flight, light aviation, management studies, propulsion, rotorcraft, safety, space, structures and materials, structural mechanics, systems and test procedures and UAVs.

Papers are solicited on all aspects of research, design and development, construction and operation of aircraft and space vehicles. Papers are also welcomed which review, comprehensively, the results of recent research developments in any of the above topics.

We recognise the inhibiting pressures of time and confidentiality, and acknowledge that many of the design testing, manufacturing and operational problems that industry has to solve contain important information for the whole aerospace community. Be assured that *The Aeronautical Journal* provides a renowned platform for refereeing and presenting your work to the broadest international audience.

Papers will be considered for publication in *The Aeronautical Journal* if they meet the terms and conditions listed in our instructions for authors available at: http://journals.cambridge.org/AER. If these are not met, the Editor reserves the right to withdraw the paper without redress, which may be at any time up to publication.

Wayne J Davis, RAeS Production Editor at: aerojournal@aerosociety.com
Subscription enquiries should be sent to: journals@cambridge.org
Papers should be submitted at: www.edmgr.com/aeroj

https://doi.org/10.1017/aer.2016.2 Published online by Cambridge University Press