

BIOGRAPHICAL MEMOIRS

64

Biogr. Mem. Fell. R. Soc. 2018 **64**, 1-419, published 1 April 2018

Email alerting service

Receive free email alerts when new articles cite this article - sign up in the box at the top right-hand corner of the article or click [here](#)

BIOGRAPHICAL MEMOIRS
OF FELLOWS
OF THE ROYAL SOCIETY

VOLUME 64

BIOGRAPHICAL MEMOIRS
OF FELLOWS
OF THE ROYAL SOCIETY

2018
VOLUME 64

Published by the Royal Society
6–9 Carlton House Terrace
London SW1Y 5AG

The Royal Society is a Registered Charity (No. 207043)

Published June 2018

Editor: Professor Malcolm Longair

Editorial Board

Professor Jon Agar	Ms Georgina Ferry	Professor Elizabeth Simpson
Professor Tim Birkhead	Professor David Garner	Professor Claudio Stern
Professor Keith Browning	Professor James Jackson	Professor Ian Stewart
Professor David Buckingham	Professor Martin Johnson	Professor Trevor Stuart
Professor Christopher Calladine	Professor Steve Jones	Professor Tilli Tansey
Professor Martin Campbell-Kelly	Professor Bruce Joyce	Sir John Meurig Thomas
Professor John Coates	Professor Eric B. Keverne	Professor Denis Weaire
Dr Peter Collins	Professor Brian Launder	Professor Bryan Webber
Professor John Dainton	Professor David Lilley	Professor Robin Weiss
Professor Dianne Edwards	Professor Jeremy Sanders	

Commissioning editor: Helen Eaton

Production editor: Radha Dutia

Fellowship records and archives: Keith Moore

Picture curator: Katherine Marshall

Typeset by Nova Techset Private Limited, Bengaluru and Chennai, India

Printed by Henry Ling Limited, The Dorset Press, Dorchester

The Royal Society makes all reasonable efforts to obtain necessary permissions for the use of images that are copyright material. If you are the copyright owner of any images reproduced within any volume of *Biographical Memoirs* (or its forerunner, *Obituary Notices*) and are uncertain as to whether we hold your up-to-date contact information, please contact The Librarian, Library and Information Services of the Royal Society (email: library@royalsociety.org).

ISBN: 978-1-78252-326-0

ISSN: 0080-4606

Copyright

This publication is © 2018 The Royal Society

Except as otherwise permitted under the Copyright, Designs and Patents Act, 1988, this publication may only be reproduced, stored or transmitted, in any form or by any means, with the prior permission in writing of the publisher, or, in the case of reprographic reproduction, in accordance with the terms of a licence issued by the Copyright Licensing Agency. In particular, the Society permits the making of a single photocopy of an article from this issue (under Sections 29 and 38 of the Act) for an individual for the purposes of research or private study.

CONTENTS

	PAGE
EDITORIAL by Malcolm Longair CBE FRS FRSE	1
VLADIMIR IGOREVICH ARNOLD by Boris Khesin and Sergei Tabachnikov	7
JULIAN ERNST BESAG by Peter J. Diggle, Peter J. Green FRS and Bernard W. Silverman FRS	27
PETER ORLEBAR BISHOP by Jack D. Pettigrew FRS and Bogdan Dreher	51
IAN BUTTERWORTH CBE by Peter Dornan FRS	69
JOHN PHILIP COOPER CBE by Kenneth Edwards	89
DAVID PARKER CRAIG AO FAA by Noel S. Hush AO FRS FAA and Leo Radom FAA	107
ALEXANDER LAMB CULLEN OBE by J. Brian Davies FREng	131
RODNEY DEANE DAVIES CBE by Francis Graham-Smith FRS, Andrew G. Lyne FRS and Clive Dickinson	149
RICHARD LANGTON GREGORY by Michael F. Land FRS and Priscilla Heard	163
RAINER WALTER GUILLERY by S. Murray Sherman	183
PETER GAVIN HALL by John Robinson and Alan H. Welsh FAA	207
ANASTASIOS DEMETRIOS HONDROS CMG FRS by Martin P. Seah and Colin Lea	231
WALTER KOHN by Pierre C. Hohenberg and James S. Langer	249

	PAGE
MARTIN DAVID KRUSKAL by J. D. Gibbon, S. C. Cowley FRS, N. Joshi, and M. A. H. MacCallum . . .	261
ANTHONY LEDWITH CBE by W. J. Feast FRS	285
NICHOLAS JOHN SEYMOUR MACKINTOSH by John M. Pearce FRS	299
ERNEST ARMSTRONG McCULLOCH by Tak Wah Mak	317
MICHAEL J. D. POWELL by M. D. Buhmann, R. Fletcher FRS, A. Iserles and P. Toint	341
DAVID COLIN SHERRINGTON by Randal W. Richards OBE, DSc, PhD, FRSC and Philip Hodge PhD, FRSC	367
HARRY SMITH by Donald Grierson OBE FRSB FRS	387
IAN WILLIAM MURISON SMITH by Gus Hancock	401