

### Editor: Mrs Hazel McGee

Papers Secretary: Nick James Meetings Recorder: Alan Dowdell

The *Journal* is published six times per year, in February, April, June, August, October & December.

Library subscription (UK and surface mail overseas): £50.00. To purchase single copies or individual articles please see **www.britastro.org/journal**.

The Association is not responsible for individual opinions expressed in articles, letters, reviews or reports of any kind. Material published in the *Journal* does not necessarily express the views of the BAA Council.

#### Contributions

Papers should be sent by e-mail (preferred) or by post (three copies) to the Papers Secretary at the address shown inside the back cover of each issue. They will be refereed, and, if approved by Council, published as soon as reasonably possible. Those wishing to speak at a meeting should contact the Meetings Secretary.

All other contributions should be sent to the Editor. As well as *Letters to the Editor*, she will be pleased to receive contributions to *Observers' Forum*, particularly interesting astronomical photographs, drawings and images. Colour images are especially welcomed. Photos and media will be returned only if a suitable stamped addressed envelope is enclosed.

#### Advertisements

Small advertisements should be sent to the Office, accompanied by the appropriate remittance. Members' small advertisements are FREE and may be sent directly to the Editor by e-mail.

**Display advertisements and loose inserts:** For a rate card and further information, please contact the *Journal* Editor, Mrs Hazel McGee, hazelmcgee@btinternet.com.

#### Deadlines

All material, including short letters and notes, must be received by the Editor by the following dates:

 Issue
 Date

 2013 April
 2013 February 28

 2013 June
 2013 April 26

 Later dates apply, by arrangement, to electronic advertising copy for which space has been reserved.

#### Membership of the BAA

The annual subscription for ordinary membership of the Association for the 2012–2013 Session is £46.00. For details of concessionary rates, and other membership information, see page 32 of this issue. Subscriptions are due on 1st August each year. Members who pay UK income tax are encouraged to complete a Gift Aid certificate in order to benefit the Association, which is a registered educational charity. The annual subscription to posted BAA Circulars is £5 (UK).

Published by: The British Astronomical Association, Burlington House, Piccadilly, London W1J 0DU Tel: 020-7734 4145

World Wide Web home pages: BAA: http://www.britastro.org/ Journal: http://www.britastro.org/journal/

Journal © British Astronomical Association 2013. Individual articles, illustrations etc. remain the copyright of the author or photographer, whose permission must also be obtained before reproduction.

ISSN 0007-0297

Printed by the Magazine Printing Co., Enfield, EN3 7NT

# 2013 February

Vol. 123 No. 1

## Contents

Refereed papers	
Short paper: An observatory in the Pennines Martin Cole Identification of a dome near the lunar crater Hansteen	e 11
Rafaello Lena & Jim Phillips Barker's Circle: a 1930s BAA lunar observing group	s 14
Richard McKin Historical annular solar eclipses S. Mohammad Mozaffar The orbital and superhump periods of the dwarf nova	i 33
SDSS J093249.57+4725230Jeremy Shears et al.The first confirmed superoutburst of the dwarf novaGALEX J215818.5+241924Jeremy Shears et al.	
Notes and NewsFrom the President2012 November 13: an Australian eclipse	
Nick Ĥewitt, Nick James and Nick & Andrea TurnerComet PanSTARRS is looking good for MarchNick JamesMars 2011–'12: 2nd interim reportRichard McKinMore supernova discoveries for BAA observersStewart L. MooreSolar SectionLyn Smith	5 1 2
Index to the Journal, vol. 122 (2012) Bob Marriott facing	g 32
BAA Update         Obituary: Richard Henry Chambers, 1931–2012         Obituary: John Frederick Pedler, 1932–2012         John Meacham         Section meeting: Observing projects with asteroid–comet connections	1
Observers' ForumGraham RelNew features for observers on the Computing Section website A 'Sunflower' in Canes VenaticiGraham Rel Stewart L. MooreUnique observations of a partial eclipse of an asteroid: 2012 XE54 The Central European Deepsky Imaging Conference, 2013 CQ Cephei: from robotic observations to computer modellingGraham Rel Stewart L. Moore Richard Miles	2 5 5
Meetings           Annual General Meeting and Ordinary Meeting, 2012 October 31         Alan Dowdel	55 I
ReviewsRichard MilesNear-Earth Objects: Finding them before they find us (Yeomans) Grating spectroscopes and how to use them (Harrison) The star atlas companion (Bagnall)Richard Miles David Arditt Roger Pickard	i
The night sky in February & March Membership information Meetings diary & small advertisements New members Officers and Council	s 60 32 62 10 63

### On the cover

# Sir Patrick Alfred Caldwell-Moore, CBE, FRS, FRAS

1923 March 4 - 2012 December 9

BAA Presidential Portrait, from the *Journal*, vol.**95**(2), 1985. ©British Astronomical Association, 1985.

