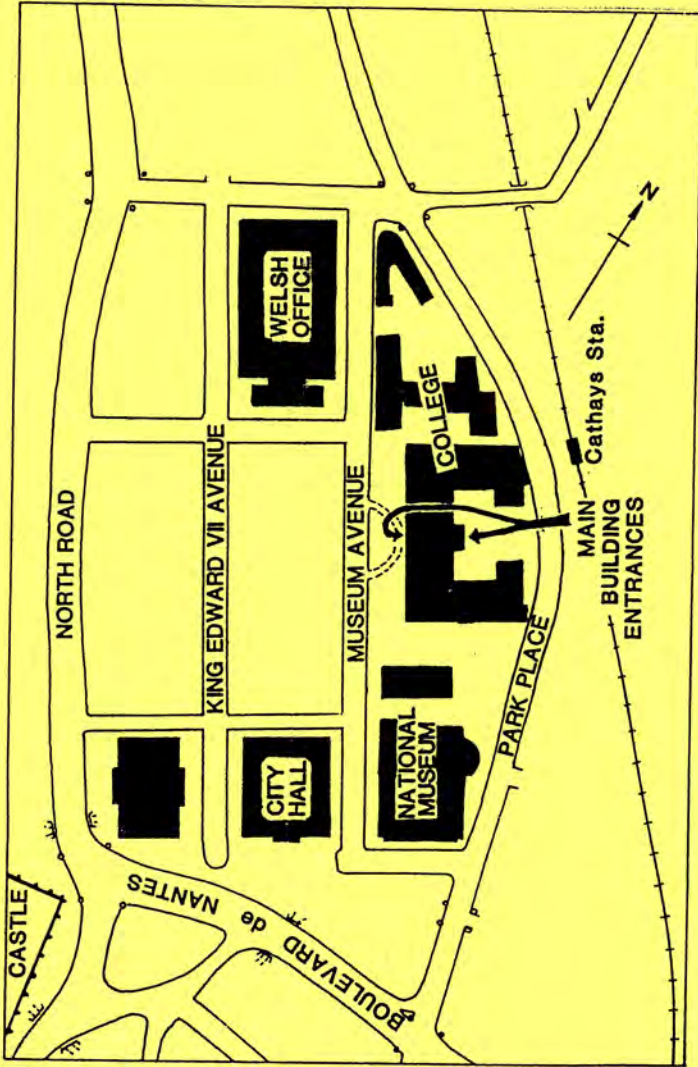


CARDIFF ASTRONOMICAL SOCIETY

HANDBOOK 1991-92

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INTRODUCTION

Cardiff Astronomical Society was founded in July 1975, and was originally based at the old Penylan Observatory. Unfortunately, due to years of neglect by the City Council, exacerbated by vandalism, the observatory had to be closed down early in 1979, and the Society moved its headquarters to University College. Meetings are held fortnightly, on alternate Thursdays between September and July in the Small Shandon Lecture Theatre, Main Building, University of Wales College of Cardiff (see map). They commence at 7.30 pm and finish shortly after 9.00 pm. The programme comprises lectures, short talks, quizzes etc., and we try and cater for all interests at whatever level, whether beginner or more advanced. Some meetings will begin at 6.30 pm, with an hour before the main meeting devoted to junior members and to beginners. These will be announced at preceding meetings, and via the *Newsletter*. Besides the indoor meetings, informal observing sessions are arranged from time to time by our Director of Observations, and notice of these is given at the indoor meetings, or via the *Newsletter*.

The Society owns a six-inch Newtonian reflector, a six-inch rich-field telescope and a three-inch refractor which are available for members to loan. They can be borrowed at meetings, or by arrangement with the Director of Observations (address overleaf). Practical observing sessions will be held at Dyffryn Gardens car park on alternate Fridays, beginning September 20 and will take place only when it is clear, or there is less than 50% cloud cover. On some occasions the Director of Observations may be absent due to commitments at College, but he will attempt to find a substitute to run sessions whenever possible. Any changes will be announced at meetings or via the *Newsletter*, and the Director of Observations can be contacted at the 'phone number overleaf. It is also hoped to organise a couple of trips to a really dark site in the Brecon Beacons for astrophotography etc. Progress continues with plans for a Society Observatory near Peterston-super-Ely.

A comprehensive library is available for use at meetings, and a list of holdings is given elsewhere in this *Handbook*. The Society publishes a regular *Newsletter* that gives information on forthcoming activities, current phenomena in the sky etc. Any member is invited to contribute. In conjunction with the Federation of Astronomical Societies we publish an *Astrocalendar* that gives details of planetary phenomena, eclipses, meteor showers etc. for the forthcoming year.

Subscriptions: Adults £10.00 per annum, Juniors £2.50 per annum.

Due September 1 1991 for 1991-92 session. Prompt payment appreciated!

COMMITTEE 1991-1992

PRESIDENT

Professor M.J. Disney F.R.A.S.
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Gareth Richards
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 33 Forest Road,
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Alex Lamprey
 167 Lansdowne Road,
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 Cardiff

PROGRAMME 1991-92

1991

- Sept. 12 Astronomy in Germany in the Nineteenth Century.
Dr A.Chapman, University of Oxford.
- Sept. 26 Lunar topography. H. Davies, Swansea A.S.
- Oct. 10 THE BILL SUTHERLAND MEMORIAL LECTURE: The Early Universe
Dr R. Hillier, University of Bristol.
- Oct. 24 DEBATE: Is there life elsewhere in the Universe?
Dr M.G. Edmunds and Dr J. Davies, UWCC.
- Nov. 7 The next ten years in American Astronomy. Prof. M.J. Disney, UWCC.
- Nov. 21 Small is beautiful.
Prof. Iwan Williams, University of London (JASPresident),
- Dec. 5 Astro Quiz. Organised by N.L. Jenkins, CAS.

1992

- Jan. 9 Orbits, precession and Ice Ages. Dr R.M. Owens, CAS.
- Jan. 23 Planetary nebulae. M. Griffiths, Bridgend A.S.
- Feb. 6 Quasar absorption lines. Prof. M.J. Disney, UWCC.
- Feb. 20 The use of low-cost CCDs in amateur astronomy and in astro computing.
M.E.J. Chick, CAS.
- Mar. 5 Type II Supernovae. B. Daugherty, CAS.
- Mar. 19 Brains Trust. Panel of CAS Members.
- Apr. 2 ANNUAL GENERAL MEETING
- Apr. 16 Expansion of the Universe. S. Phillips, UWCC.
- Apr. 30 The Hubble Space Telescope. R. Morris, UWCC.
- May 14 Dusty galaxies. R. Evans, UWCC.
- May 28 The planet Mars. J. Workman, Haringey A.S.
- June 11 Pulsars in binary systems. Prof. B. Schutz, UWCC.
- June 25 Remote sensing.
Dr S. Owen-Jones, Welsh Industrial and Maritime Museum.
- July 9 Three short talks. CAS Members.

LIBRARY

(A) GENERAL

Abel G.D.	Astronomy for Everybody
Ball R.S.	The Story of the Heavens
Bracewell R.N.	The Galactic Club
Brandt J.C. & Mason S.P.	New Astronomy and Space Science Reader
Brandt J.C. & Mason S.P.	New Horizons in Astronomy
Brown P.L.	Astronomy in Colour
Cambridge Encyclopedia of Astronomy	
Couper H. & Henbest N.	Space Frontiers
Evans D.S.	Teach Yourself Astronomy
Ferris C.	The Red Limit
Gribbin J.	The Amateur Astronomer
Hamlyn Guide to Astronomy	
Hinks A.R.	Astronomy
Hinks A.R.	A-Z of Astronomy
Horizon: At the Edge of the Universe	
Hyde F.W.	Radio Astronomy
McAleer N.	Cosmic Mind - Boggling Book
Marx & Pfan	Observations of the World
Moore P.A.	Beginners Book of Astronomy
Moore P.A.	Challenge of the Stars
Moore P.A.	Countdown
Moore P.A.	Exploring the Galaxies
Moore P.A.	Guide to the Stars
Moore P.A.	Observers Book of Astronomy
Moore P.A.	Story of Astronomy
Moore P.A.	The Stars Above
Nicholson I.	Astronomy
Ridpath I.	Stars and Planets
Ronan C.A.	Deep Space
Satterwaite G.E.	Encyclopedia of Astronomy
Scientific American New Frontiers in Astronomy	
Sidgwick J.B.	Introducing Astronomy
Smart W.M.	Textbook on Spherical Astronomy
Stoy R.H.	Everyman's Astronomy
Struve O.	Elementary Astronomy
Thompson	Astronomy
Waterfield R.L.	The Revolving Heavens
Worvill R.	The Stars and Their Legends
Zukov G.	The Dancing Wu Li Masters

(B) THE UNIVERSE AND COSMOLOGY

Asimov I.	The Collapsing Universe
Calder N.	The Violent Universe
Davies P.	The Edge of Infinity
Davies R.D. & Palmer H.P.	Radio Studies of the Universe
Disney M.J.	The Hidden Universe
Einstein A.	The Meaning of Relativity
Gribbin J.	White Holes
Hebwyrd J.D.	The Living Universe
Hoyle F.	Astronomy and Cosmology
Kaufmann W.J.	Black Holes and Warped Spacetime
Lovell B. & Lovell J.	Discovering the Universe
Motz L.	The Universe - Its Beginning and End
Shkowskii I. & Sagan C.	Intelligent Life in the Universe
Silk J.	The Big Bang

Smart W.M.	The Riddle of the Universe
Taylor J.	Black Holes
Unsold A.	The New Cosmos
Whipple F.	The First Three Minutes

(C) SOLAR SYSTEM

Brown P.L.	Comets, Meteorites and Men
Calder N.	The Restless Earth
Cross C.A. & Moore P.A.	The Atlas of Mercury
Doherty P.	Atlas of the Planets
Gallant R.	Bombarded Earth
Guest J.E. & Greeley R.	Geology on the Moon
Hendrickson W.	Reach for the Moon
Menzel H.	Our Sun
Moon, Mars and Meteorites (Geological Museum)	
Moore P.A.	Exploring other Planets
Moore P.A.	Guide to the Moon
Moore P.A.	Guide to the Planets
Nicholson I.	Exploring the Planets
Poocey S.	Exploring the Solar System
Richardson R.S.	Man and the Planets
Scientific American: the Solar System	
The Moon - A Brief Four Language Survey	
Smith A.	A Key to Worlds Beyond
Washburn M.	Mars at Last!
Whipple F.	Earth, Moon and Planets

(D) OBSERVATIONAL GUIDES ETC

Brown P.L.	Star and Planet Spotting
Cherrington E.	Exploring the Moon Through Binoculars
Inglis	An Easy Guide to the Constellations
Mallas J.H. & Kreimer E.	The Messier Album
Moore P.A. (Editor)	Practical Amateur Astronomy
Newton J.	Deep Sky Objects
Peck W.	The Constellations and How to Find Them
Ronan C.A.	The Practical Amateur Astronomer
Roth G.A.	Handbook for Planet Observers
Roth G.A.	The Amateur Astronomer and his Telescope
Thackeray A.D.	Astronomical Spectroscopy
Webb T.W.	Celestial Objects for Common Telescopes Volume 1. The Solar System

(E) ASTROPHOTOGRAPHY

Newton J.	Skys shooting
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(F) ATLASES ETC

Becvar	Skalnate Pleso Atlas of the Heavens
Norton's Star Atlas	
Moore P.A.	The Atlas of the Universe
Philips	Signpost to the Stars
Philips	Stars at a Glance

Popular Star Atlas

(G) MATHEMATICAL ASTRONOMY/CALCULATIONS

Duffet-Smith P. Practical Astronomy with your Calculator
Sawyer W.W. Mathematician's Delight

(H) TELESCOPE MAKING ETC

Frank C. Frank's Book of the Telescope
Howard Telescope Making
Spry R. Make your own Telescope
TASCO Telescope Manual for Beginners

(I) SPACE EXPLORATION

Avenel A. The View from Orbit II
Clarke A.C. The Promise of Space
Feldman A. Secrets of Space
Gardner M. Space Puzzles
Hoyle F. & Wickramasinghe N.C. Space Travellers
Ryan P. Invasion of the Moon 1969
The Young Space Traveller : Project Book 168
Von Braun W. Space Frontier
Worvill R. Exploring Space

(J) 'UFO'S'

UFO - UK
Vallee J. & Vallee J. The UFO Enigma

(K) PERIODICALS ETC

The Astronomer Various issues from 1977, 1978 and 1981; B.A.A. New South Wales Branch: *Bulletins* 579-85, 590-2, 595-9; F.A.S. *Newsletters*.

Sky & Telescope Unbound issues from 1970; bound volumes 1978-84 inclusive

Astronomy Various issues from 1970's and 1980's

(L) C.A.S. PUBLICATIONS ETC.

Newsletters; Astrocalendars; Committee Minutes

CONSTITUTION

1. NAME

The Society shall be named the Cardiff Astronomical Society.

2. AIMS

The Society shall be an organisation to stimulate public interest in the science of astronomy; to further the knowledge of its members and to promote and conduct research and observations.

3. MEMBERSHIP

Membership shall be open to all persons interested in astronomy.

4. SUBSCRIPTIONS

Subscription rates for membership shall be as follows, Juniors under 16 years of age on date of joining £2.50 per annum; Adults £10.00 per annum. Subscriptions shall become due on September 1st each year. A member whose subscription remains over three months in arrears will be suspended until it is paid.

5. FINANCIAL YEAR

The financial year of the Society shall commence on September 1st.

6. MEETINGS

a) An annual General Meeting shall be held in the Spring of each year. Such meetings will be devoted primarily to the reports of Officers and the election of Officers for the next session.

b) Ordinary meetings shall take place once per fortnight at the Society's Headquarters unless the Committee should decide otherwise.

7. COMMITTEE

a) The Committee shall be as follows:-

President
 Vice-President
 Chairman
 Vice-Chairman
 Secretary
 Assistant Secretary
 Treasurer
 Deputy Treasurer
 Editor
 Publicity Officer/Librarian
 Director of Instruments/Observations
 Junior Representative
 Two ordinary members

b) All Officers shall be elected for the ensuing year at the Annual General Meeting.

- c) A quorum shall consist of seven members for a Committee Meeting.
- d) The President and Vice President are ex Officio members of the Committee.
- e) The Committee shall meet at least once per quarter.
- f) The Committee shall be the administrative body of the Society and shall be responsible for its activities.
- g) Committee members for election shall be proposed and seconded by a Society member.
- h) No person shall stand for election without his or her prior consent.

8. HEADQUARTERS

The headquarters of the Society shall be University of Wales College of Cardiff.

RULES

1. The Society shall be called the Cardiff Astronomical Society.
2. The objects of the Society shall be to stimulate public interest in the science of astronomy, to further the knowledge of its members, and to promote and conduct research and observations.
3. The Society shall consist of ORDINARY, HONORARY and JUNIOR members. ORDINARY and HONORARY members shall have the right of attending and voting at all meetings of the Society, of proposing candidates for election to the Committee, of serving if elected on the Committee or in any office of the Society. All members have the right of receiving Newsletters and notices issued during their membership.
4. ORDINARY and JUNIOR members shall pay an annual subscription. This shall become due on the first day of September in each year. Members whose subscriptions are in arrears by over three months may be considered for removal from the Society at the discretion of the Committee.
5. The management of the Society shall be vested in a Committee consisting of a Chairman, Vice-Chairman, Secretary, Assistant Secretary, Treasurer, Deputy Treasurer, Editor, Publicity Officer/Librarian, Director of Instruments/ Observations. The Chairman elected to serve for one year, with the option of standing for a second; the Chairman will stand down following his/her period of office; the Secretary and Treasurer not subject to re-election unless desired by the Membership, Committee or the Incumbent; all other posts to come up for re-election annually, but the Incumbent may be re-elected for as many years as the Membership, Committee of the Incumbent desires; in addition there shall be two ordinary members who may stand for one year only, after which they must stand down; one year must elapse before they are eligible for re-election; the above members to be elected at appropriate Annual General Meetings; the Committee has the right to co-opt members for a specific purpose. The Committee shall fill any vacancies that may arise until the next Annual General Meeting. The President and Vice-President are honorary posts, not subject to elections. They may change from time to time at the discretion of the Committee, or when the Incumbent wishes to be relieved of the post.

6. Before each Annual General Meeting there shall be issued to each ORDINARY and HONORARY member of the Society a circular which shall contain the names of such members as may be nominated by the Committee to serve on the Committee during the following year. Additional nominations may be made by ORDINARY members provided that the candidate is supported by not less than two ORDINARY members, and that such nominations are received by the Secretary not less than one week before the date of the Annual General Meeting.
7. Minutes shall be kept of the Annual and Special General Meetings of the Society.
8. The Committee shall, upon a requisition signed by not less than ten ORDINARY members of the Society, convene a Special General Meeting of the Society. A notice of the date and object of such a Special General Meeting shall be sent to each member of the Society not less than seven days before such a meeting, and no business shall be considered other than for which it was convened.
9. The accounts of the Society shall be made up to the last day of February in each year and audited by two members of the Society not at the time members of the Committee, and shall be presented at the Annual General Meeting.
10. In the event of dissolution of the Society such property or effects shall be disposed of by gift. Such gift shall be for the benefit of astronomy and not for the benefit of any individual. The disposal shall be determined by the vote of a Special General Meeting.
11. No rule shall be altered except by a majority vote of the ordinary members present at a Special General Meeting convened for that purpose.
12. A copy of these rules shall be sent to each ORDINARY member upon election.

STANDING ORDERS

1. The composition of the Committee shall be as laid down in the Rules of the Society.
2. The Committee shall meet not less than four times during the year.
3. In the absence of the Chairman and Vice-Chairman the Committee shall be chaired by an Officer elected by the Committee.
4. For each Committee meeting there shall be a quorum which shall not be less than one half of the Committee membership.
5. Minutes of each Committee meeting shall be kept.
6. Special meetings of the Committee shall be called by not less than three Committee members whose names shall appear on the summoning notice, together with the stated reason for the meeting.
7. No minutes shall be read at a special meeting and no business other than that stated on the Agenda shall be transacted.

