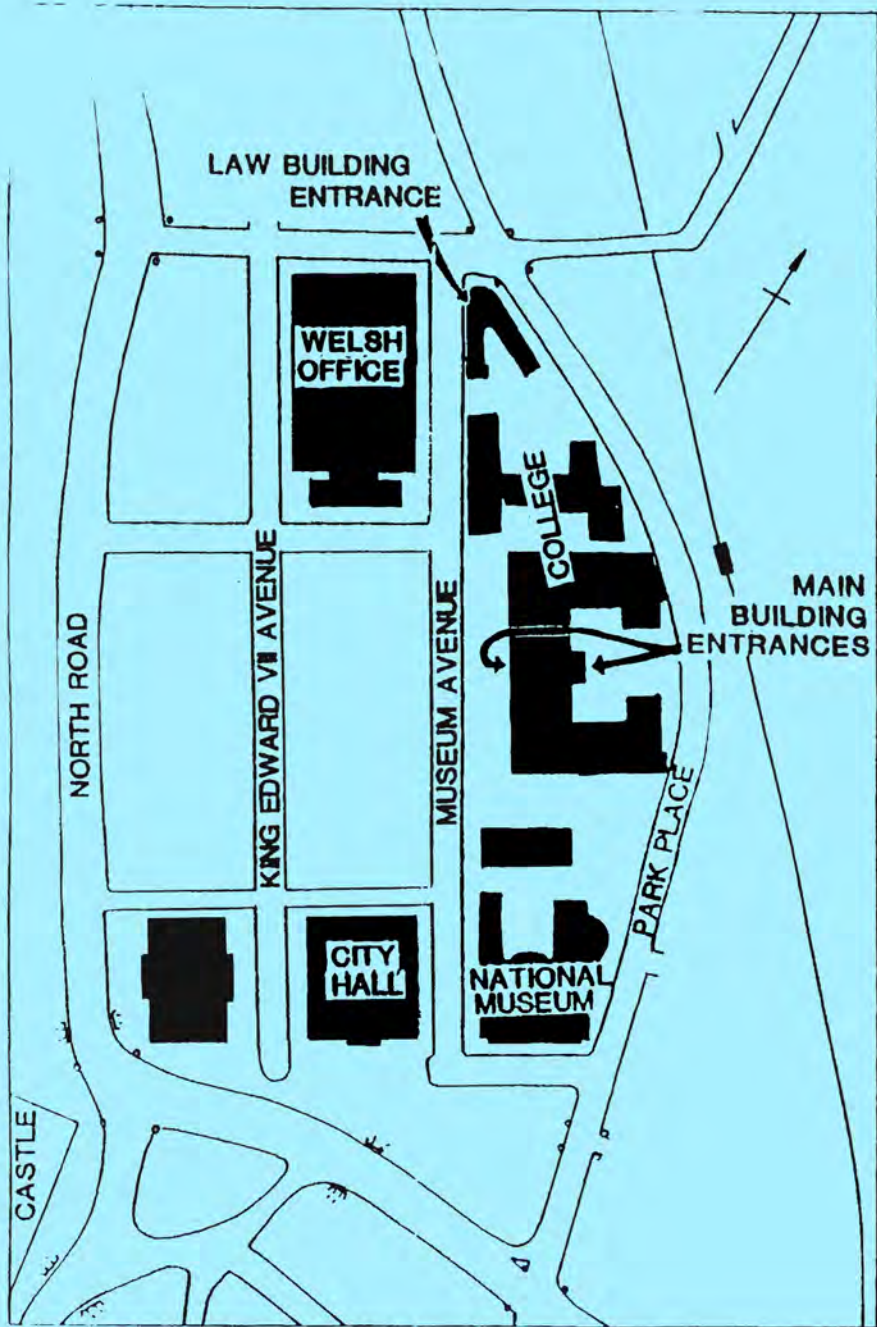


**CARDIFF
ASTRONOMICAL SOCIETY**

**HANDBOOK
1988-89**

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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, kindly made available through the good offices of Dr Mike Edmunds of the Department of Applied Mathematics and Astronomy.

Meetings are held fortnightly, on alternative Thursdays between September and July; most are held in Room 227, Department of Law, University College, Cardiff, but some (see programme) are held in the Small Zoology Lecture Theatre in the Main Building (see map opposite). 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. 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 several portable instruments. Recently we purchased a 10-inch Dobsonian for use at observing sessions, and there is a 6-inch Newtonian reflector available for members to loan, via the Director of Observations. Additional instruments, a 3½-inch refractor and a 6-inch rich-field telescope are being renovated.

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 £7.50 per annum, Juniors £2.00 per annum.
Due September 1 1988 for 1988-89 session. Prompt payment appreciated.

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 Rhwibina,
 Cardiff CF4 6XX

LIBRARIAN

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 Cwmbren,
 Gwent

PUBLICITY OFFICER

Keith Hill,
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 Fairwater,
 Cardiff

COMMITTEE MEMBER

Hugh Lang,
 85 Heol Hir,
 Llanishan,
 Cardiff CF44 5AB

PROGRAMME 1988-89

1988

September 8*	Practical observations of the planets by amateur astronomers	D. Graham, FRAS, Planetary Section Director, JAS
September 22*	Radio astronomy	R.H. Lang, CAS
October 6	How heavy are spiral galaxies?	Prof. M.J. Disney, UWC Cardiff; President, CAS
October 20	The Crab Nebula	Dr R. Thompson, UWC Cardiff
November 3	Computational simulations in astronomy	Dr A. Nelson, UWC Cardiff
November 17	The shape of British astronomy over the next 20 years	Prof. B. Schutz, UWC
December 1	Christmas Quiz	CAS
December 15*	Meteorites	G. Day, Swindon

1989

January 5*	Astrobiology - origin of life?	Dr N. Bone, Dept. Zoology, University of Cambridge
January 19	GCSE Astronomy	G. Greenfield, CAS
February 2	Cosmic horizons	P. Smith, Bristol AS
February 16	Comets	Dr R.M. Owens, CAS
March 2	Artificial satellite observing	M. Astley, Wolverhampton AS
March 16	How to make your own reflecting telescopes	P. Bennett, CAS
March 30*	Total Solar Eclipse in the Philippines	S. Lubbock, CAS
April 13*	AGM	
April 27	Archaeology of the galaxies	Dr M.G. Edmunds, UWC Cardiff
May 11	Observing double stars by visual and photographic methods	R. Mosely, Coventry
May 25	Brains Trust	CAS
June 8	Low surface brightness galaxies	Dr S. Phillips, UWC Cardiff
June 22	Black Holes	C. Goodman, Leicester
July 6*	Three short talks	CAS members

* These meetings will take place in the Small Zoology Lecture Theatre in the Main Building at College; all others are in Room 227, Department of Law.

LIBRARY

- Astronomy
 Astronomy
 Astronomy for everybody
 Astronomy in Colour
 Astronomy
 A-Z of Astronomy
 The Amateur Astronomer and his Telescope
 Astronomical Spectroscopy
 The Atlas of the Universe
 The Atlas of Mercury
 The Amateur Astronomer
 Astronomy and Cosmology
 Atlas of the Planets
 The Astronomer periodical: Various from 1977, 1978, 1981
- Thompson
 Iain Nicolson
 G.O. Abel
 P.L. Brown
 A.R. Hinks
 A.R. Hinks
 G.A. Roth
 A.D. Thackeray
 P. Moore
 C.A. Cross & P. Moore
 John Gribbin
 F. Hoyle
 Paul Doherty
- Beginners Book of Astronomy
 Bombarded Earth
 Black Holes
 The Big Bang
 Black Holes and Warped Spacetime
 E.A.A. New South Wales Branch: Bulletins 579-85
 " " " 590-2
 " " " 595-9
- Patrick Moore
 R. Gallant
 J. Taylor
 J. Silk
 W.J. Kaufmann
- Countdown
 Comets, Meteorites and Men
 Challenge of the Stars
 The Constellations and how to find them
 Celestial objects for common telescopes Vol. 1 -
 The Solar System
 Cosmic Mind-boggling book
 The Collapsing Universe
 Cambridge Encyclopaedia of Astronomy
- Patrick Moore
 P.L. Brown
 P. Moore
 W. Peck
 Y.W. Webb
 N. McAleer
 I. Asimov
- Deep Space
 Discovering the Universe
 Deep sky objects
 The Dancing Wu Li Masters
- Colin A. Ronan
 B. Lovell & J. Lovell
 J. Newton
 G. Zukov
- Exploring Other Planets
 Exploring the Galaxies
 Exploring the Planets
 Exploring the Solar System
 Earth, Moon and Planets
 Exploring Space
 Encyclopaedia of Astronomy
 Elementary Astronomy
 Exploring the Moon through binoculars
 Everyman's Astronomy
 The Edge of Infinity
 An Easy Guide to the Constellations
- P. Moore
 P. Moore
 J. Nicolson
 S. Poocey
 F. Whipple
 R. Worvill
 G.E. Satterthwaite
 Otto Struve
 E. Cherrington
 R.H. Stoy
 Paul Davies
 Inglis
- Frank's Book of the Telescope
 The First Three Minutes
 F.A.S. Newsletters
- C. Frank
 F. Whipple
- Guide to the Moon
 Guide to the Planets
 Guide to the Stars
 Geology on the Moon
 The Galactic Club
- P. Moore
 P. Moore
 P. Moore
 J.E. Guest & R. Greeley
 R.N. Bracewell

- Handbook for Planet Observers
 Horizon: At the Edge of the Universe
 Hamlyn Guide to Astronomy
 The Hidden Universe
- Invasion of the Moon 1969
 Introducing Astronomy
 Intelligent Life in the Universe
- A Key to Worlds Beyond
- The Living Universe
- The Messier Album
 Man and the Planets
 Man Probes the Universe
 Mathematician's Delight
 Make your own Telescope
 Mars at last!
 The Meaning of Relativity
 Moon, Mars and Meteorites (Geological Museum)
 The Moon - a brief 4 language survey
- New Astronomy and Space Science Reader
 New Frontiers in Astronomy
 The New Cosmos
 New Horizons in Astronomy
 Norton's Star Atlas
- Observations of the World
 Observer's Book of Astronomy
 Our Sun
- Practical Astronomy with your Calculator
 Practical Amateur Astronomy
 The Practical Amateur Astronomer
 Popular Star Atlas
 Phillip's Signpost to the Stars
 Phillips's Stars at a Glance
 The Promise of Space
- The Restless Earth
 Radio Studies of the Universe
 Reach for the Moon
 Radio Astronomy
 The Riddle of the Universe
 The Revolving Heavens
 The Red Limit
- Story of Astronomy
 The Story of the Heavens
 Star and Planet Spotting
 Space Frontiers
 The Stars Above
 Sky Shooting
 The Stars and their legends
 Skalnate Pleso Atlas of the Heavens
 The Solar System
 Space Frontier
 Space Travellers
 Space Puzzles
 Secrets of Space
 Stars and Planets
Sky and Telescopes, Bound Volumes 1978
 " " 1979, 1980, 1981, 1982, 1983, 1984
- G.A. Roth
 M. Disney
 P. Ryan
 J.B. Sidgwick
 I.S. Shklovskii & C. Sagan
 A. Seith
 J.D. Hebywyrd
 J.H. Mallas & E. Kreiner
 R.S. Richardson
 C.A. Ronan
 W.V. Sawyer
 R. Spry
 M. Washburn
 A. Einstein
 J.C. Brandt & S.P. Mason
 Scientific American
 Albrecht Unsöld
 J.C. Brandt & S.P. Mason
 Marx & Pfan
 P. Moore
 Menzel
 P. Duffet-Smith
 P. Moore
 C.A. Ronan
 A.C. Clarke
 N. Calder
 R.D. Davies & H.P. Palmer
 W. Hendrickson
 F.W. Hyde
 W.N. Smart
 R.L. Waterfield
 C. Ferris
 Patrick Moore
 R.S. Ball
 P.L. Brown
 H. Couper & N. Henbest
 P. Moore
 J. Newton
 R. Worvill
 Secvar
 Scientific American
 Wernher von Braun
 Hoyle & Wickramasinghe
 Martin Gardner
 A. Feldman
 Ian Ridpath

Library, cont.

Teach Yourself Astronomy	D.S. Evans
Textbook on Spherical Astronomy	W.M. Smart
TASCO telescope manual for beginners	
The UFO Enigma	J. Vallee & J. Vallee
The Universe - Its beginning and end	Lloyd Motz
UFO - UK	
The View from Orbit II	A. Avenel
The Violent Universe	N. Calder
White Holes	J. Gribbin
The Young Space Traveller: Project Book 168	

CARDIFF ASTRONOMICAL SOCIETY 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 £2.00 per annum; adults £7.50 per annum. Subscriptions shall become due on September 1 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 1.

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
 Treasurer
 Editor
 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 six 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 at University College, 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, Treasurer, Editor, 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 or 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.

Rules, cont.

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 that 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 meeting 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.

