

# CARDIFF ASTRONOMICAL SOCIETY

## HANDBOOK 1989-90

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## INTRODUCTION

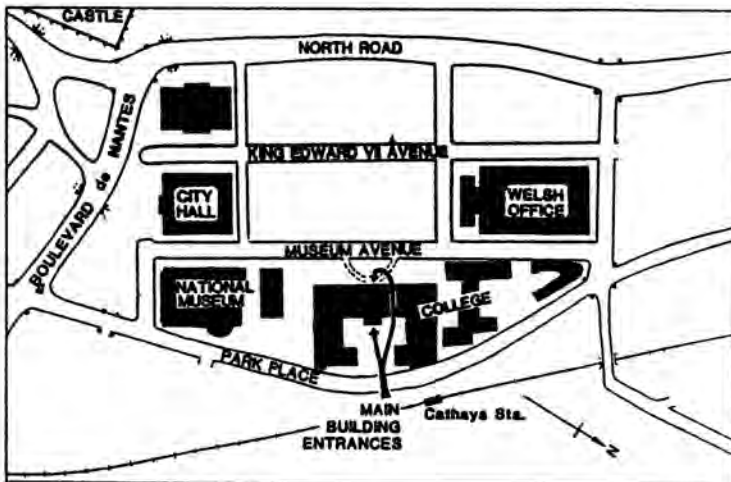
Cardiff Astronomical Society was founded in July 1975, and was originally based at the old Penylan Observatory. Unfortunately, due to years of neglect by the City Council, exacerbated by vandalism, the observatory had to be closed down early in 1979, and the Society moved its headquarters to University 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 alternate Thursdays between September and July in the Large 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. 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 Society observatory that will house a 20-inch reflector is being planned, and is to be erected near Peterston-super-Ely. Members will be advised of progress at meetings, or via the *Newsletter*.

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 1989 for 1989-90 session. Prompt payment appreciated!



**COMMITTEE 1989-90****PRESIDENT**

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 CURATOR OF INSTRUMENTS**

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 Cwmbran. Gwent.

**JUNIOR REPRESENTATIVE**

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 Tel: (0222) 595611

**COMMITTEE MEMBER**

Keith Hill,  
 106 Fairwood Road,  
 Llandaff, Cardiff CF5 3OL

1989

September	14	Shell Galaxies	Dr. R. Thompson, University of Wales College of Cardiff
September	28	Asteroids	Dr. R.M. Owens, C.A.S.
October	12	Open Clusters	B. Abrams, Cotswold Astronomical Society.
October	26	Artists in Space	D. Hardy F.B.I.S., L.R.P.S. Birmingham.
November	9	Is There a Pulsar in the Large Magellanic Cloud Supernova?	Prof. B. Schutz, University of Wales College of Cardiff
November	23	Astro. Quiz	N.L. Jenkins, C.A.S. (Quizmaster)
December	7	The Big Bang	D. Samuel, B.A. Montana State University, U.S.A.

1990

January	11	Aurorae	N. Bone, Cambridge University
January	25	Infra-red Galaxies	Prof. M. Disney, University of Wales College of Cardiff
February	8	Beyond the Horizon	P. Smith, Bristol Astro. Society
February	22	Astrophotography	M.J. Chick, C.A.S.
March	8	Three Short Talks	C.A.S. Members
March	22	Update on the Missing Mass	Prof. M. Disney, University of Wales College of Cardiff
April	5	Annual General Meeting	
April	19	The Sun	G. Elston, J.A.S. Solar Section Director
May	3	Trying to see the Faces of the Stars	Dr. M. Edmunds, University of Wales College of Cardiff
May	17	Ultraviolet Astronomy	Dr. A. Willis, University College London
May	31	Neptune- The Encounter	C. Greenfield, C.A.S.
June	14	Supernova	C. Hancock, C.A.S.
June	28	Deep Sky Objects	D. W.S. Powell, C.A.S.
July	12	Three Short Talks	C.A.S. 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 Encyclopaedia of Astronomy           |
| Comper H. & Henbest N.   | Space Frontiers                                |
| Evans D.S.               | Teach Yourself Astronomy                       |
| Ferris G.                | 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                    |
| Marr & 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.         | Encyclopaedia 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 J.                  | 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                          |
| Hebuyrd 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             |
| Notz L.                    | The Universe - Its Beginning and end |
| Ronan C.A.                 | Man probes the Universe              |
| Shklovskii I.S. & 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, R.                 | The New Cosmos                       |

Whipple F.

(C) SOLAR SYSTEM

Brown P.L.  
Calder N.  
Cross C.A. & Moore P.A.  
Doherty P.  
Gallant E.  
Guest J.E. & Greeley E.  
Hendrickson W.  
Menzel H.

Moore P.A.  
Moore P.A.  
Moore P.A.  
Nicholson I.  
Poocey S.  
Richardson R.S.

Smith A.  
Washburn M.  
Whipple F.

(D) OBSERVATIONAL GUIDES ETC.

Brown P.L.  
Cherrington E.  
Inglis  
Mallas J.H. & Kreimer E.  
Moore P.A. (Editor)  
Newton J.  
Peck W.

Ronan C.A.  
Roth G.A.  
Roth G.A.

Thackeray A.D.  
Webb T.W.

(E) ASTROPHOTOGRAPHY

Newton J.

(F) ATLASES ETC

Bečvar  
Norton's Star Atlas  
Moore P.A.  
Philips  
Philips  
Popular Star Atlas

The First Three Minutes

Comets, Meteorites and Men  
The Restless Earth  
The Atlas of Mercury  
Atlas of the Planets  
Bombarded Earth  
Geology on the Moon  
Reach for the Moon  
Our Sun  
Moon, Mars and Meteorites  
(Geological Museum)  
Exploring Other Planets  
Guide to the Moon  
Guide to the Planets  
Exploring the Planets  
Exploring the Solar System  
Man and the Planets  
Scientific American the Solar  
System  
The Moon - A Brief Four Language  
Survey,  
A Key to Worlds Beyond  
Mars at Last!  
Earth, Moon and Planets

Star and Planet Spotting  
Exploring the Moon Through Binoculars  
An Easy Guide to the Constellations  
The Messier Album  
Practical Amateur Astronomy  
Deep Sky Objects  
The Constellations and How to Find  
Them  
The Practical Amateur Astronomer  
Handbook for Planet Observers  
The Amateur Astronomer and his  
Telescope  
Astronomical Spectroscopy  
Celestial Objects for Common  
Telescopes Volume 1. The Solar System

Skys shooting

Skalnate Pleso Atlas of the Heavens

The Atlas of the Universe  
Signpost to the Stars  
Stars at a Glance

(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  
Worrell E. Exploring Space

(J) 'UFO's'

UFO -UK  
Vallee J. & Vallee J. The U.F.O. Enigma

(K) PEDIODICALS 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  
Skv & Telescope Unbound issues from 1970; bound volumes  
1975-84 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 £2.00 per annum; Adults £7.50 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  
 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 desire; 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 Chairman 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.

## Rules Continued:

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 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.

