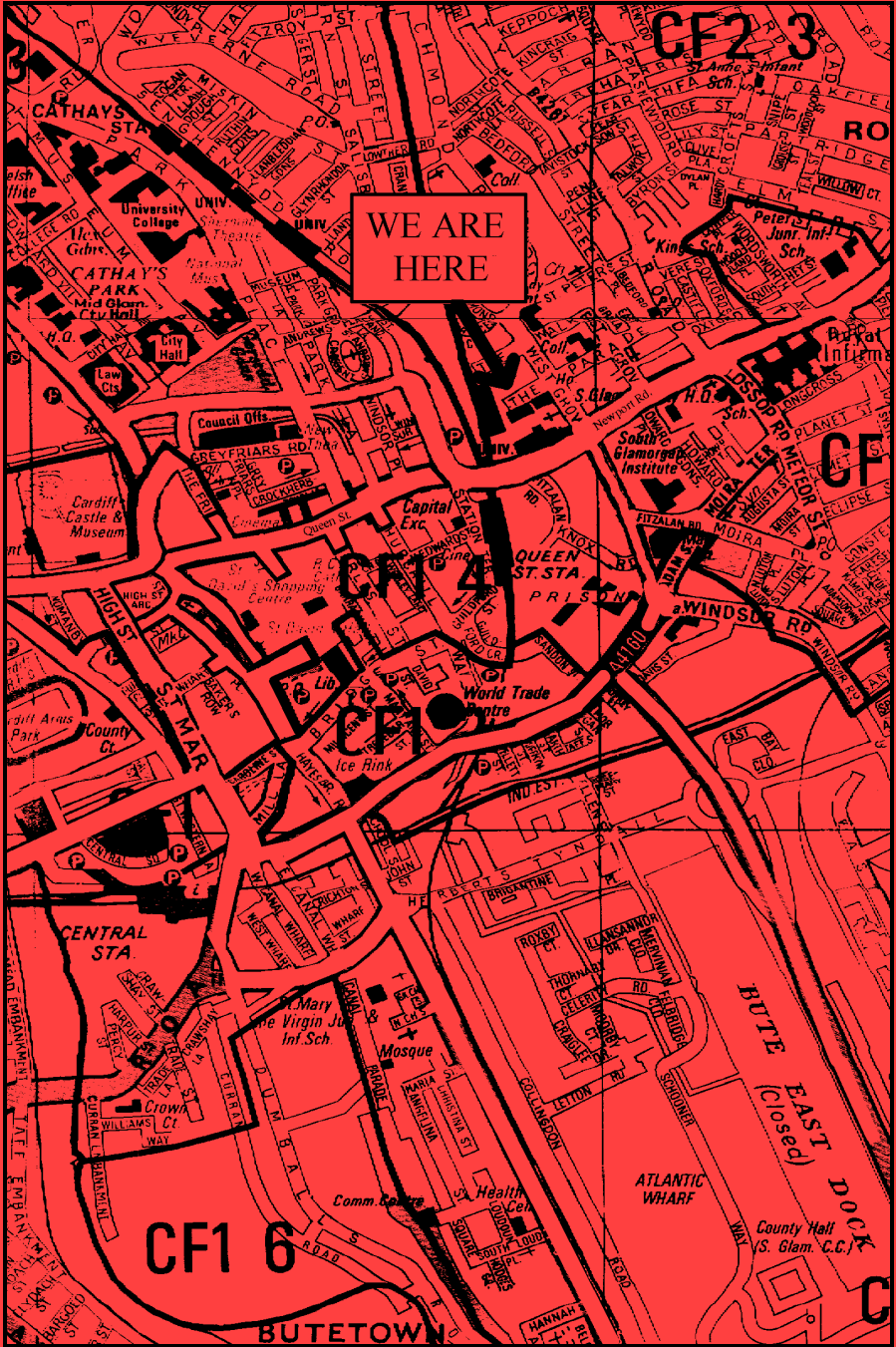


CARDIFF ASTRONOMICAL SOCIETY

HANDBOOK 1999-2000

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INTRODUCTION

Cardiff Astronomical Society was founded in July 1975 by Dr Bob Owens and Dave Powell at an out of London meeting of the British Astronomical Association held at Dyffryn Gardens. They are both still members today as the Society continues to develop its activities supported by a very active and enthusiastic committee.

Membership has increased to over 200 and is drawn from a wide geographical area : South and South West Wales, and into the West Country. Despite the travelling involved members attending meetings usually number over 60 and on several occasions during the year this number will reach over 100.

Meetings are held on alternate Thursday evenings September to July at University of Wales College Cardiff, beginning at 7:30pm. UWCC has a world class astronomy and physics department and the Society receives tremendous support from everyone there led by our own President Professor Mike Disney.

The programme is varied comprising of lectures, short talks and debates. The aim is to cater for all interests at whatever level, beginner or advanced. The Society is able to attract the very best speakers from all over the UK. We hold regular observing evenings at one of two designated sites where members can look up at the night sky with the help of more experienced observers and some of the telescopes owned by the Society. For those who need help there is a naked eye sky tour to start the night off.

A comprehensive library is available for use by all members and telescopes can be borrowed by arrangement. We publish a regular newsletter that gives information on forthcoming events, activities, current phenomena etc. All members are invited to contribute.

The Society is frequently featured in locally made science education programmes on television and radio and we are actively involved with national events such as Science Week and at Techniquest Discovery Centre in Cardiff Bay.

The map opposite shows the location of the venue. It is easy to get to and close to bus and train routes. Ample car parking is available nearby. If in doubt contact any Committee member (phone numbers on page 4). Please make every effort to attend - it is encouraging for speakers to have a large audience and makes it easier for the Society to attract the best.

Subscription: Adults £13.50 Juniors £2.50 Family £18.50

Subscriptions are due on September 1st and prompt payment is appreciated.

A warm and friendly welcome promised for all!!

COMMITTEE 1999-2000

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Cardiff Astronomical Society Program 1999 - 2000.

1999

September 2 nd	Formation of stars and planets	Dr. D. Ward Thomson - University College Cardiff
September 16 th	Johannes Kepler and music of the spheres	Dr. Alan Chapman - University of Oxford
September 30 th	Asteroids	Dr. David Hughes - University of Sheffield
October 14 th	The universe in 3D†	Dr. Chris Baddiley - Malvern, Worcs.
October 28 th	Observing Variable stars with binoculars	Tony Markham - Leek, Staffs
November 11 th	Light pollution and the Campaign for dark Skies	Bob Mizon - Wimborne, Dorset
November 25 th	Observational astronomy from Worth Hill observatory	David Strange - Swanage, Dorset
December 9 th	Christmas Quiz	Bob Pulverness - Cardiff Astronomical Society

2000

January 6 th	Inside a neutron star (why do stars explode)	Dr. Steve Hands - University of Swansea
January 20 th	Just how big is the universe	Dr. Martin Barstow - University of Leicester
February 3 rd	Alien Life forms	Dr. John Morton - University of Glamorgan

† "The universe in 3D" - This is a big slide show where we see perspective views of the solar system, the stars, the Milky Way, and far galaxies. The talk is illustrated with many computer generated simulations, shown as sequences of slides. Constellations are time shifted and also viewed from different remote locations. Some of these are down to mag. 9 in true colour, and some are in stereo, seen with red-green glasses provided. Our super cluster of galaxies is displayed similarly in a galaxy trek. Galaxies are also crashed together in simulation. Gravitational lensing and space-time distortions are shown. The show ends with a truly relativistic journey to the star eta Cma., showing dramatic geometrical aberrations and colour shifts, with rapid forward time travel. This talk is particularly popular, and has been given many times.

February 17 th	Introducing the Messier objects	Martin Griffiths - Bridgend Astronomical Society
March 2 nd	Ghostly visitors from outer space	Angie Jones - Swansea Astronomical Society
March 16 th	A personal view of the universe	Dave Eagle - Rushden, Northants
March 30 th	What's going on, on the surface of stars	Dr. Rhys Morris - University College Cardiff
April 13 th	Annual General Meeting	
April 27 th	History of Spaceflight	Dr. Keith Moseley - Monmouth
May 11 th	Unconventional astronomical imaging	Dr. Steve Wainwright - Swansea Astronomical Society
May 25 th	The Tunguska incident (Fire in the sky)	Andrew Lound - The Planetary Society, Birmingham
June 8 th	How to use a telescope (types, pointing, R.A., dec, etc.)	Dr. Bob Owens - Cardiff Astronomical Society
June 22 th	Stellar evolution	Piers Horner - Cardiff Astronomical Society
July 6 th	Three short talks	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**
The amount of the annual subscription (and any reduction for juniors etc.) shall be proposed by the committee and shall be subject to the approval of the general membership at an Annual general Meeting, or at an Extraordinary General Meeting convened for that purpose.

5. FINANCIAL YEAR

The financial year of the Society shall commence on March 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 the officers and the election of Officers for the next session.

b) Ordinary meetings shall take place once per fortnight, September to July, at the Society's headquarters, unless the committee should decide otherwise.

7. COMMITTEE

a) The committee shall be made up of the following members.

President

Vice President

Chairman

Vice Chairman

Secretary

Assistant Secretary

Treasurer

Assistant Treasurer/Membership Secretary

Publications Officer

Publicity Officer

Librarian

Director of Instruments/Observations

Junior Representative

Two Ordinary Members

b) All officers eligible shall be elected for the ensuing year at the Annual General Meeting

c) For each committee meeting, there shall be a quorum which shall be not less than one half of the committee membership.

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 every year. Members whose subscription 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 as stated in 7A of the Constitution. The Chairman is elected to serve for one year with the option of standing for a second. The Chairman will stand down from the position following his/her term of office. The Secretary and Treasurer are not subject to re-election unless desired by the membership, the 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, the committee, or the incumbent desires.
6. 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 special 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 election. They may change from time to time at the discretion of the committee, or when the incumbent wishes to be relieved of the post.
7. 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 for 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 fourteen days before the date of the Annual General Meeting. Minutes shall be kept of committee meetings, Annual General Meetings 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 one individual excluding any serving member of the committee.
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 in general 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 the 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.
13. In the absence of the Chairman and Vice Chairman the committee shall be chaired by an officer elected by the committee.
14. 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. No minutes shall be read at a Special Meeting, and no business other than that stated on the agenda shall be transacted.

THE BILL SUTHERLAND AWARD

This award was set up in memory of Bill Sutherland an early member of CAS, who unfortunately passed away in 1990. It is awarded each year at the AGM, to a CAS member who has shown outstanding enthusiasm for astronomy and the Society.

Work for the award can be of any astronomical or Society nature and may include (but not exclusively) things like observational drawings, photographs, CCD images, newsletter articles, Talks given to the Society.

Obviously some work comes to the attention of the awarding committee automatically (such as a newsletter article), other work by its nature may need to be brought to the attention of the awarding committee by its author (e.g. photographs).

Remember we are not necessarily looking for technical excellence but rather enthusiasm for astronomy and CAS, so enter your work for consideration for this award.

TELESCOPES

The Society possesses the following instruments which are available for loan to members. Please contact the Curator of Instruments for further information.

1. 20x70 Binoculars with tripod.
2. 3 inch $f16$ refracting telescope †.
3. 3¾ inch $f12$ refracting telescope.
4. 90mm (3½ inch) $f5.5$ refractor †.
5. 4½ inch $f7.3$ 'Siberia' Newtonian reflecting telescope †.
6. 6 inch $f8$ open frame Newtonian reflecting telescope †.
7. 6 inch $f4$ rich field Newtonian reflecting telescope ‡.
8. 6 inch $f8$ 'Siberia' Newtonian reflecting telescope †.
9. 8¾ inch $f5.6$ 'Dark Star' Newtonian reflecting telescope *.

† Equatorial mount. ‡ Alt/Az Mount. * Dobsonian Mount.

In addition the Society also possesses an eight-inch Meade Schmidt-Cassegrain telescope which is for use at observing sessions, and is NOT available for loan to members.

LIBRARY

An updated list of books in the library will be published in a forthcoming newsletter, and it is proposed to purchase new titles to fill gaps in the coverage. In the meantime, if you would like to borrow any books, please contact the Librarian at meetings, who will be happy to make them available.

PROGRAMME

Please note that while we try not to alter the programme, occasionally changes have to be made, sometimes at short notice. We will do our best to inform you in advance, via the newsletter or at meetings.

DATA PROTECTION ACT

Your membership details are kept on computer. They will only be used for the administration of Cardiff Astronomical Society and not disclosed to anyone who is not a member. However, you have the right to have the information deleted from the computer if you wish.

