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June 1989

issue number 19

Federation of Astronomical Societies

FEDERATION NEWS

FEDERATION OF ASTRONOMICAL SOCIETIES JULY CONVENTION IN SHEFFIELD

The preliminary notice of this meeting has already been circulated to societies. This is the final notice so members should book now via Ken Marcus. Booking is advised, particularly if the meal is required.

DATE: 1989 July 8 Saturday
VENUE: The Hicks Building, University of Sheffield - the Physics Block.
ORGANISER: Paul Harper, 62 Kingston Avenue, Dalton, Huddersfield HD5 9HL; Tel 0484 25988

ENTRANCE CHARGE: £2.50 for FAS society members and £3.50 for non-members.
MEAL: Ploughmans Lunch £3.70; please state whether vegetarian ploughmans is required at same price.

WRITE NOW FOR TICKETS AND PAYING FOR ANY MEMBERS AT THE SAME TIME, TO KEN MARCUS, ADDRESS ABOVE. MEALS MUST BE PAID IN ADVANCE.

PROGRAMME:

- 10.00 Coffee
- 10.45 FURTHER EXPLORATION OF MARS - Les Woolliscroft of Sheffield University
- 11.45 ROBOTIC TELESCOPES - Dr Baruch of Leeds University
- 12.45 Lunch
- 2.00 ORIGIN AND EVOLUTION OF THE SOLAR SYSTEM - Professor Woolfson of York University
- 3.00 Tea/Coffee
- 3.30 COSMIC GAMMA RAYS - Dr Hillas of Leeds University
- 4.25 FAS Notices and thanks.

TRADE STANDS ARE INVITED - please contact the organiser. There will be plenty of room for exhibitions so feel free to bring display materials but again contact the organiser first.

The University has an astrophysics department and a long history of helpful association with astronomical societies in the region so a warm welcome can be expected.

Our thanks to the University for their hospitality.

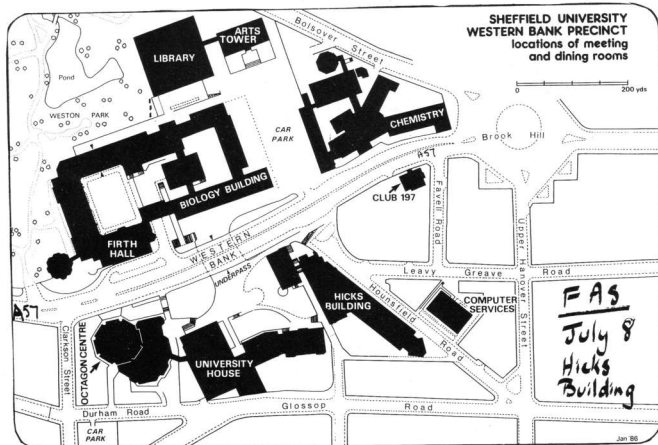
TRAVEL INFORMATION:

The University occupies ground on both sides of Western Bank, a dual carriageway to the west of the city. It is reached from Brook Hill roundabout. A map can be obtained from the organisers when booking. Car parking is available to the north side of the dual carriage and an underpass takes pedestrians to the Hicks Building to the south. To drive directly to the Hicks building take Upper Hanover Street and Hounsfield Road from the Brook Hill roundabout. (For those with materials to unload).

By train - 2.5 hours from London; 1 hour from Leeds or Manchester. The No 60 bus runs from outside the railway station direct to the University, one mile away. Sheffield is a very hilly city and catching the bus is advisable if coming by train.

The University is on the following bus routes: 2, 50, 51, 52, 60 and 95.

News and articles for the Newsletter Issue No 20 should be with the editor by late July please. Publication due August with news of next FAS Convention in Cardiff, September 30, replacing the former annual convention held at the RGO.



At the AGM held in Coventry on Saturday May 6 the following officers were elected to serve for the year 1989/90:-

President: Rosemary Naylor
Vice President: Bob Owens
Secretary: Chris Sheldon
Assistant Secretary: Tony Ireland
Treasurer: Ken Marcus
Editor: Rosemary Naylor
Education Secretary: Eric Zucker
Society News Editor: Martin Chick
Assistant Society Editor: Pam Chick
Publicity Officer: Dave Powell
Editor of Handbook: Brian Jones
Editor Council Newsletter: Bill O'Shaughnessy
Meetings Co-ordinator: Paul Money

The new list of officers will appear in the 1990 FAS Handbook, meanwhile most addresses can be found in the old list on page 37 of the 1989 Handbook. Exceptions are:

Dave Powell, 1 Tal-y-Bont Road, Ely, Cardiff, CF5 5EU

Paul Money, Valley Cottage, Wineby, Horncastle, Lincs, LN9 6PB

The treasurer presented his report for the year to 30 April 1989 which showed that while our expenses were slightly higher than in the previous year, our income had fallen slightly. Moreover we no longer have our October convention at Herstoncoxe to look forward to as a source of income. Nevertheless he felt that there was no need to raise subscription rates and these will remain the same at £7.50 standard rate for societies with 25 or more members and £4.00 for smaller societies. Subscriptions become due in September. Societies not present at the AGM may obtain copies of the statement of accounts from the treasurer if they wish to study the details.

There was the usual interactive discussion between members from the floor and council members on a range of topics from education to future conventions.

Pam Chick asked societies to take note of their present address when sending society news for inclusion in the FAS Newsletter's Round-Up. It seems some societies have still not updated their mailing lists although it is over a year since Mr & Mrs Chick moved to:

2 Magnolia Way, Chandler's Reach, Llantwit Fardre, Nr Pontypridd, Mid Glamorgan CF38 2NJ

Federation Sweatshirts and Teeshirts, as advertised in the last FAS Newsletter were not proving to be the best seller which Chris Sheldon had hoped when she investigated marketing these as publicity for the FAS. The scheme to have sweatshirts and teeshirts printed with our logo does depend on quantity to achieve reasonable prices. So, if you had planned to order garments, please do so as soon as possible so that we can assess the viability of the enterprise.

SPACEPRINTS COMPETITION

Societies submitting material to be judged at the AGM and Convention were few but the quality of items presented was high according to the judges. The winners were:

First prize of £75 to Gotswold Astronomical Society.

Third prize of £25 to West of London Astronomical Society.

The judging was done by Ron Arbour in the photography section and Arthur Gilbert in the artistic sections. The number of members in each competing society was taken into account and societies were judged anonymously. It was only as the results were being announced that society names were revealed.

The judges had found the competition a very close run thing with non-winners being such worthy entrants that it was afterwards decided by the Council that the runners-up; Bristol Astronomical Society and Plymouth Astronomical Society should be given £10 each out of FAS funds.

The Federation is extremely grateful to SPACEPRINTS of 1174 High Street, Norton, Stockton on Tees, Cleveland TS20 1AA for their generosity. Their free colour catalogue can be obtained from this address showing their range of products, which will hopefully include some of the material submitted in the competition in the near future.

One of the judges, Arthur Gilbert, is an international space artist and would like to encourage our members to do more painting of space scenes. His letter is printed elsewhere in the Newsletter.

The conclusion reached by Ron Arbour, after seeing the quality of the photographic entries submitted, was that standards have improved dramatically. He said that at one time British astrophotographers were some 10 or 15 years behind achieving the quality demonstrated by American astrophotographers but now they are experimenting with considerable success. He cited the 'grotty' conditions with which our amateurs had to contend as the driving force. The answer to the problem was being found in short exposures on fast film, so that now our photographers are catching up with the rest of the world.

Speakers at the Convention which followed the AGM were well received and provoked considerable discussion. They were:

John Fletcher on "Astrophotography". John will feature in the film "Earth calling Basingstoke" to be shown on Channel 4 TV late July.

Bernard Abrams on "Supernovae". Bernard is author of a book to be published by Stanley Thornes shortly to be used by students of astronomy at schools level.

Norman Walker spoke on the opportunities which amateur astronomers have to make useful contributions to observational astronomy, particularly in the field of photoelectric photometry. Norman is co-author of the book "Getting the Measure of the Stars" by Alan Cooper and Norman Walker, just published by Adam Hilger.

FUTURE MEETINGS

RADIO LEEDS ASTRONOMIC

The annual meeting held by the Yorkshire Group in which astronomical societies pit their brains against one another in the contest for the cup originally donated by Radio Leeds will take place on Saturday October 21. Last year's winners, Mexborough and Swinton, offered to host the 1989 meeting and to set the questions.

Nigel Palmer, 33 Macri Avenue Bolton-on-Dearne, Rotherham, South Yorkshire S63 8DZ

LIVERPOOL AS/NORTH WEST ASTRONOMICAL SOCIETIES

Liverpool AS are to host the North West Astronomical Societies meeting on Saturday October 21. This takes place at Liverpool City Museum & Planetarium between 10am and 5pm. Societies wishing to attend should contact Gerard Gilligan on 051-220 8718 after 6pm. More details of the meeting will be available nearer the time.

LIVERPOOL AS/BRITISH ASTRONOMICAL ASSOCIATION

Liverpool AS have a meeting well in hand to be held next year; September 14/15 1990 as part of the RAA Centenary celebrations 1890-1990. The City Museum has been booked. The Astronomer Royal, Professor Sir Francis Graham-Smith will be guest speaker at the public lecture which ends the proceedings. More details next year from Liverpool AS secretary:

Gerard Gilligan, 85 Steers Croft, Cantrill Farm, Liverpool, Merseyside L23 8AH

LINCOLN AS ASTRONOMY AND SPACE '89

Celebrating the 30th anniversary of the Lincoln Society, a meeting is to be held on Saturday September 23 from 10am to 6pm. Speakers will include: Neville Kidger; "Soviets in Space" Neil Bells; "Meteors" Alan Wells; "Lunar Occultations with automated releases" Ron Maddison; "The next generation of Super Telescopes" For more information contact David Swaby, "The Everglades", 13 Beaufort Close, Nettleham Park, Lincoln LN2 4SP Tel evenings 0522 531591

"EARTH CALLING BASINGSTOKE"

If you want the general TV-watching public to tune into a programme about the strange habits of those nocturnal creatures, amateur astronomers, you give it an equally strange title. This seems to be the thinking of a team of film makers who are currently putting together a film for showing on Channel 4. To see the results, you should tune in yourselves to Epsom, Channel 4 TV, Sunday July 30 at 7.30 pm. A number of FAS members will be featured. The programme will run for 50 minutes and filming took place in various locations in the UK during April this year. The Basingstoke of the title obviously refers to Guy Hurst of "The Astronomer" network. FAS members taking part include John Fletcher of Gotswold AS, David Graham of Derrington AS and a certain woman trying to explain why there are so few women in astronomy. It is difficult to say at this stage what the result will be since 90% of what has been filmed will be edited out, as is normal with these things, but that still leaves one of us quite apprehensive. Still, it was an interesting experience. Don't miss it, and if anyone would like to send in a review afterwards for publication in the Newsletter, please feel free to do so. (The most complimentary review will probably get printed).

The Editor has received copies of a brochure for the above centre in Portugal from the West of London AS. No doubt other societies will have received copies too. West of London members think it sounds promising and are considering booking a holiday. If it sounds tempting and you haven't received the brochures, then read on.

The literature is in English and the centre is run by a resident English couple. They are Dr and Mrs Ewan-Smith. Dr Ewan-Smith is a Manchester University physics graduate and an amateur astronomer of long-standing. His wife Janet will look after the needs of family visitors at the Centre.

Pertinax, in the Algarve, is on the coast. Travel by air is recommended to Faro airport. Rates are given as £10 for bed and breakfast with a discount for astronomical society members. Evening meal if required is £4.00

COAA is an informal study centre at latitude 37 degrees north. Omega Centauri, the globular cluster is a fine sight and Campus is on the southern limit of visibility. The Centre is being equipped with optical instruments, including a new 12-inch Newtonian reflector and a 4-inch refractor. There is a library of astronomy books and computing facilities are available.

Booking forms and further information can be obtained from the address below:

Dr and Mrs Ewan-Smith
Centro de Observacao Astronomica No Algarve
Casa Adelina, Póvoa
Mexilhoeira Grande
8500 Pertinax, PORTUGAL

IN THE SKY *****

THE LASER LIGHT SHOW OF 1989 MARCH 12/13
Ren Arbour

The aurorae as seen over Hampshire was breathtaking, covering almost all of the sky, reaching to within a few degrees of the southern horizon. In thirty years of observing, this was an unparalleled experience, being so spectacular, and yet with knowing it might stop abruptly, no observing notes were taken. While Pat (Mrs Arbour) rang round other observers to alert them to the show, the auroral display continued. In fact, with only momentary breaks, it lasted virtually continuously from 7.15pm to 1am.

One can read about the different types of aurorae in the books. All the types were displayed that night. The most spectacular part was the coronal streamers overhead when everything turned bright red, with the streamers pulsating rapidly. This was obviously better than anything to be seen in the photographs taken from Sweden and Norway which can be found in the books.

At times the northern horizon was an ice blue with calm periods of pale blue which made the moon look insignificant. At times the sky seemed as bright as day.

During an apparent break in the display, when it seemed that supernova patrol photographs might be possible, there was obviously still considerable activity going on, for next day, when the film was developed, the negatives were dead black, ie completely fogged out.

I shall certainly watch out for future auroral displays.

Meteor watchers with his own radio work on meteors. Please make an effort to observe the Perseid shower in August, making the usual notes. A copy sent to the FAS Editor can then be forwarded to the co-ordinator's address. Please try to join in at whatever level you feel able.

BOOK REVIEW *****

OBSERVING VARIABLE STARS A Guide for the beginner; David H Levy
Cambridge University Press 1989 pp198
hardback £13.95

RU Lupi? Could you take such apparently personal questioning from a fellow astronomer? David Levy the author may say, "Probably" as he does in section 20 of this new guide aimed at the total beginner. (The variable star RU Lupi is an irregular, eruptive star in the area of a diffuse nebula in the constellation of the Wolf). For the beginner to astronomy this is a book which is highly readable but if you have successfully observed variables, it is not for you.

Some important statements from the book highlight the style it is written in, ie "...because this book has been designed to interest you in the observation of variable stars it is not filled with graphs and formulae as explanations of variation." It is written "...to inspire you to observe variable stars." Levy's writings ask you to "...share (his) enthusiasm for the starry sky." It will be undoubtedly successful at fulfilling these desires or wishes; it may nurture a few amateurs to become serious observers or professional astronomers. The author is an American comet discoverer, keen variable star observer, and an author with wide interests which also includes writing for "Astronomy" and "Sky & Telescope". He especially likes teaching children.

The wide range of variable star is simply explained and their observation and importance is described. There are about 20 AAVSO charts which, despite their small reproduction, may help the raw beginner. These charts cover variables such as; Z Cam, T CrB, R Leo, R Sct and T Tau. Some 320 more variables over the whole celestial sphere are shown on basic maps as suggested objects for observation. A few sentences describe most of these stars. There are few, if any, comparison stars on these maps (these maps could have been drawn better) and Levy just points approximately in the direction of the variables. You will need a good star atlas and observational experience to find some of the fainter stars. The author suggests that proper charts may be obtained from a major v.s. organisation.

The book is basically good at its intended aims, yet there are some areas which are lacking in thoroughness, in particular the instrumental and observer requirement's sections. There are some flaws and typographical faults and some errors of fact occur. For example, the absolute magnitudes of S Der and Sirius are incorrect. Also, beware the table of decimals of a day, the Greek alphabet, the index, and to a lesser degree the constellation list, which is incomplete.

Levy's book could have been better structured so that it was more amenable to a novice observer enthusiastically observing variables, for this is the person it is aimed at. But then it would have to be called a "manual"!

Melvyn Taylor
Vice President and Joint Editor Leeds
Astronomical Society
British Astronomical Association VSS
Secretary and member AAVSO

FAS CONVENTION, AUTUMN 1989

In place of the Herstonconex meeting, Martin Chick is organising a convention at Cardiff University. Astronomers at this University are amongst the country's leading researchers in the field, and though they do not have a castle to offer, indications are that this will be a prestige meeting.

Please make a note of the date and expect full details later:

FAS at Cardiff: Friday September 29 and
Saturday September 30.

LETTER TO THE EDITOR *****

Dear Rosemary

I would like to thank everyone for allowing me to come along to your AGM of May 6 in Coventry and to act as judge in the Artistic Impressions section of your Spaceprints competition. I must add I was most impressed with the standard of entries and found it quite difficult to mark one against another.

'Space Art' has the advantage of bringing to the attention of the general public the subject of astronomy in an easily understood and appealing way. If you feel you have the talent, why not exhibit locally? It is quite possible that some young mind could be awakened to the subject by your work.

If anyone is interested further in Space Art or the International Association of Astronomical Artists, of which I am a member, then further details can be obtained by writing to me at the address below. You do not have to be an artist to join as there are 3 levels of membership together with newsletters, exhibitions and other events.

Best wishes to all

Arthur Gilbert, 2 Rowland Court
Alfreton, Derbyshire DE5 7DZ

OBSERVATOIRE ASTRONOMIQUE ANIANE *****

The French Association for Astronomy is organising an international meeting at the Observatory of Aniane on the French Mediterranean coast near Montpellier.

The meeting runs from September 20 to 23 and is entitled "Le Ciel et l'Espace". The theme is to be education, research, space exploration and the future of astronomical research. The meeting is supported by the above observatory, the European Communities Commission, the European Space Agency and the European Southern Observatory.

The meeting will be attended by professional astronomers, members of astronomical societies, space industrialists and the general public.

The official languages to be used at the Colloquium are French and English. More information can be obtained from:

Bernard Pellequer
Observatoire D'Aniane
BP 14
34150 Aniane
Hérault
France

AYLESBURY AS: In March Dai Jones described his tour of the USA when he visited many of the major observatories. These included the Sacramento Peak Solar Observatory, the Very Large Array in New Mexico and the Multiple Mirror Telescope in Tucson where the University held public viewing sessions. These are rarely cancelled because of bad weather. Back in the UK, of the 52 society observing sessions planned, only 31% were successful, the best months being September and October and the worst January and June.

BASSETLAW AS: The magazine has started a series of in-depth interviews with members, beginning with the treasurer, Peter Whyles. Several new members were recruited following a successful Mars watch in October. The Society was also publicised through exhibitions and displays at local events. Social events have included a barbecue, a sponsored walk, the annual Christmas quiz and dinner, and a pea and pie supper with games.

BOSTON ASTRONOMERS: Neil Bone was talking on atmospheric phenomena at the March 13 meeting, to find as they dispersed afterwards, the spectacular auroral display seen across the country that night. Don Ayres spoke at the April meeting on astrophotography at the 10-inch, partly illustrated with his own video. In May, Peter Rea gave an audio visual presentation. A visit to Bradford Imax Cinema was also made.

BRITISH AEROSPACE AS: At their Christmas Lecture, Denis Buczynski and David Greenwood, of Condon Brow Observatory described its building and the 'amateur' work now undertaken including the supernova search and double star work. A buffer followed. The Messier League, one year on, is proving popular with members.

BRIGHTON AS: At the December meeting, Squadron Leader David Bradwell, RAE Farnborough, spoke on the human aspects of space flight. In February, Martin Radcliffe, Armagh Planetarium, spoke on the history of the discovery of the Milky Way, and of its structure. In March, Dr Allan Chapman, Oxford, spoke with enthusiasm on Airey and the Greenwich Observatory. The end of session food and wine meeting was in fancy dress celebrating the French Revolution.

CARDIFF AS: Rob Moseley, Coventry & Warwick AS, described his fascination for double stars and how this lead him to undertake measurements of these stars so that results will be available for astronomers to consult in hundreds of years time. Future plans include a skittles night and buffet and a car treasure hunt.

COTSWOLDS AS: Member Andy Packer, a student of astronomy at St Andrews University, spent a working summer holiday at the Anglo-Australian Observatory. John Fletcher spent a winter holiday at St Andrews with Andy, using telescopes there. At Mount Tuffley members contributed talks in April; Eric Dodds spoke on James Bradley, third Astronomer Royal, John Fletcher reviewed star atlases and charts, Fred Watkins showed slides taken using a scotch mount, Ken and Chris Sheldon took photos of members, developed them and showed them on the OHP, Dick Warden and Peter Cadogan spoke about computers and Les Stephens on his work with variable stars.

COVENTRY & WARWICKS AS: Vaughan Cooper regularly has detailed drawings of his

observations of lunar craters in the magazine. Ian Clark, whose drawing featured in the magazine, has had one of his Mars observations accepted for publication in the American magazine 'Astronomy'.

ELY AS: Work at the new observatory site at Wentworth progresses and a barbecue and meteor watch will be held in August as their opening night. Guest speakers have been Nicholas Booth on 'The Race to Mars', Neil Bone on 'Astrobiology' and David Early on 'Astrophotography'.

AS OF HARINGEY: Greg Smye-Rumby kept the society awake recruiting volunteers to help with demonstrations as he spoke about Neptune. Conrad Mallin-Smith demonstrated his camera platform designed to travel to La Palma and to survive the windy mountain top of La Roque de los Muchachos. Jim Webb, Alan Snell and Bob Butler gave a demonstration lecture 'Peacocks to do with lasers'. Bricks supported the mirrors which were tested with lasers and lenses. Several amateur and professionally made mirrors were tested and the latter were not always the best.

LEEDS AS: Meetings for the summer include Neil Bone on 'Atmospheric Phenomena', Dr John Baruch on 'Automatic Telescopes' and Stan Bell on 'The Length of Day'. The society will visit the Liverpool Museum and Planetarium, combining a planetarium show and a look at the Liverpool AS's observatory and telescopes.

LINCOLN AS: This Society will celebrate their 40th birthday with an 'Astronomy and Space '89' exhibition and meeting on Saturday September 23. The programme includes several well-known speakers, trade stands, space art originals, refreshments and an open evening at the Society's Observatory.

LIVERPOOL AS: In March the Society visited Southport AS' Observatory, Hesketth Park. Jupiter and many galaxies and nebulae were viewed through the 6-inch Cooke refractor, which is in good condition there. The fourth young astronomers day, held in April, was visited by 60 young people. There is a waiting list of 250 young visitors to this event. Eric Strach demonstrated his solar hydrogen alpha equipment so that live pictures of the sun could be viewed on the monitor. The magazine shows Eric's excellent sunspot drawings. In February, a weekend of astronomical entertainments was organised in Croxteth Country Park. The public were treated to informal talks, displays of computers and videos and observing sessions were possible on two of the three nights. Attendance was 600 so this may become a regular event.

NELSON AS: Ten members visited the Howards Club meeting where several people applied to join the Nelson Society. The meeting featured slide shows and a talk by Dr John Mason. The Nelson AS is a new society, meeting in Portchester. Several members have telescopes and a start has been made to build an 8-inch Dobsonian. In March six members visited the London University Observatory at Mill Hill and observed the Orion Nebula through the 6-inch Cooke refractor. They also saw the 24-inch refractor with its 18-inch guiding scope and 6-inch finder.

ORWELL AS: The Society has an annual excursion to the north of Scotland hopefully to view the Aurora Borealis. The Summer 1988 visit to the Orkneys turned into observations of the standing stones there as continual sea fog prevented them from seeing the sky. Not deterred, three members returned to the

snow, but on the last night they saw an auroral display!

PLYMOUTH AS: Dr Percy Seymour hosted the 24th anniversary meeting in the planetarium where he showed the sky as it was on the Society's first meeting. The celebrations continued in February with solar observing from the Place de Brest stone circle followed by a party. A new site is being sought for the 24-inch telescope. It is planned to visit the Rutherford & Appleton Laboratory and Jodrell Bank.

SAGAS: The AGM was hosted by the Hampshire Group where the formal meeting was followed by a talk by Hampshire's president, Robin Gorman. He spoke on astronomy in Hampshire. The met in April for skittles and supper.

SALFORD AS: Dr Allan Chapman gave the Christmas lecture. It is planned to visit Durham to see an observatory and meteorological station and later to visit the Condon Brow Observatory, Lancaster. In 1990 several members hope to go to Finland for the solar eclipse.

SCOTTISH ASTRONOMERS GROUP: The theme of the April meeting was observing the sun; Dr Alister Simons giving the main talk on the solar outburst of February 1986. Members looked round the Coates Observatory in Paisley. A weekend in Edinburgh for Scottish Astronomers is planned for September 1-3.

SE KENT AS: Andrew Hartridge who monitors radio observations of meteors has built a new permanent aerial with square drapings, an aluminium bar and receiver. The signal feeds straight onto a computer so that 24 hour observations are logged.

The Society heard a talk by Mike Maund on solar eclipse photography. At the Christmas meeting members showed their astronomical photographs; a party followed. The annual dinner was held in Dover.

SN HERTS AS: At the February meeting two British Petroleum films were shown; 'This Earth.. the search within' explaining geological surveys for minerals and 'This Earth.. the inheritance' describing the origin and structure of the Earth. In March, Seymour Laxon, a research student at University College London, spoke on remote sensing from satellites, with special reference to monitoring climatic changes.

WEST OF LONDON AS: The annual observing weekend was held in April at Portland, Dorset. Members stayed in hotel accommodation and observed successfully on both nights, getting a good view of Scorpio rising. The AGM in June will include a members session where equipment, photographs etc can be displayed and equipment sold or exchanged if required.

W YORKSHIRE AS: In March Rosemary Naylor gave a talk 'Starlight'. Other events included observing and a quiz. A jumble sale will hopefully raise funds.

ATTENTION SEXAS AND WOLAS AND OTHERS:

Please send Newsletters to our new address: 2 Magnolia Way, Chandlers Reach, Llantwit Fardre, Nr Pontypridd, Mid Glam CF38 2NJ

PAM AND MARTIN CHICK

Please get your news to Pam and Martin by mid July so that the next FAS Newsletter can come out in August in time for more news of the FAS Cardiff meeting on September 30.