

Andromeda nebula. Two photographs of the aurora of January 25, 1938, were taken by Mr. D. R. Barber, who also contributed notes on its appearance to the local Press. The director, Mr. D. L. Edwards, supplies many other interesting items in his report, dealing with publications, the laboratory, the library, buildings and grounds, etc.

THE Observatory has recently issued the first of a series of bulletins, which will be published from time to time, probably averaging about one a year. These will include articles less technical in character than the usual papers which appear in the *Monthly Notices of the Royal Astronomical Society*, and will describe special lines of research undertaken at the Observatory. In the present number, the first paper, by Mr. D. L. Edwards, deals with the spectra of γ Cassiopeiae, of which the late Dr. W. J. S. Lockyer gave an account a few years ago. Considerable changes have taken place since, strong absorption lines replacing the early hazy ones, these absorption lines fading out again and new emission lines appearing. The most striking stage was when the absorption lines had completely disappeared and there remained only the spectrum composed entirely of emission lines, the Balmer series of hydrogen being the most prominent feature. Prof. F. I. Blumbach contributes a paper which contains six photographs of Comet Finsler (1937*f*), taken in August, and this is followed by Mr. D. R. Barber's paper, "Note on the Spectrum of Comet Finsler (1937*f*)", which describes the objective prism spectrograms of this comet, secured on five favourable occasions in July and August. A useful table is given which supplies a list of the identified emission features of the cometary spectrum, together with their probable origin, wave-length and observed band limits. In the next paper, by Mr. Edwards, there is a description of a tube sensitizer made to a given specification by Messrs. Casella and Co., Ltd., who are also constructing a microphotometer for the Observatory.

Popular Astronomy at Mount Wilson Observatory

RECENTLY, the Carnegie Institution of Washington has catered in a practical way for the immense growth of public interest in astronomical research by opening a special building on Mt. Wilson to be devoted entirely to satisfying the layman's thirst for first-hand information on the many researches undertaken by the staff at Mt. Wilson and other astronomers. For many years, visitors have been privileged on one night per week to use the 60-in. telescope for visual observations of the heavenly bodies, but since the completion of the Angeles Crest highway about two years ago, the number of visitors has become a difficult problem. During 1936, it was estimated that 50,000 persons inspected the 100-in. telescope when it was open to the public, and the total number who visited the Observatory on all occasions during that year reached the large figure of 100,000. The main features of the building are, first, a room for the display of models and photographic transparencies and, second, a lecture-hall, capable of accommodating 270 persons, in which the general public are brought

into direct and personal touch with the scientific staff of the Observatory. The Carnegie Institution and the Mt. Wilson astronomers are to be congratulated on their enlightened policy of giving to the public such unique facilities for the practical understanding of what scientific research is accomplishing in the realm of astronomy.

Petrology of Igneous Rocks

WRITING with reference to the review of Hatch and Wells' "Petrology of Igneous Rocks", which appeared in NATURE of May 28, p. 952, Dr. A. K. Wells has directed attention to the second paragraph, which he believes suggests that he has been guilty of plagiarizing the scheme of classification of rocks put forward in the report of a research committee of the British Association. This was not the intention of the reviewer, who states that at no time has he entertained such an idea. He adds that considerations of space precluded mention of the fact, well known to him and to others interested, that Dr. Wells was the moving spirit of the committee in question. The main object of the review was to indicate the radical changes made in the new edition of Hatch and Wells' well-known text-book.

White Fish Commission

THE Minister of Agriculture and Fisheries and the Secretary of State for Scotland have appointed the following to be members of the White Fish Commission constituted under Part I of the Sea Fish Industry Act, 1938: Sir William Palin Elderton (chairman), Mr. H. G. Maurice (vice-chairman), Prof. Alexander Gray, Mr. G. Dallas, Mr. T. Darling. The Commission is charged under the Act with the functions of keeping generally under review matters relating to the white fish industry, and of advising and assisting the Ministers in regard thereto. The Secretary of the Commission is Mr. R. G. R. Wall, to whom all communications should be addressed at the Offices of the Commission, Nos. 6 and 7 Old Palace Yard, Westminster, S.W.1.

Weather Forecasts by Telephone

IN *The Times* of July 11, there is an account of a new enterprise on the part of the Dutch meteorological service and Dutch General Post Office. In Great Britain, anyone can get the latest official weather report over the telephone by asking for it at the Meteorological Office, but on the Hague telephone system the subscriber need only call the number 393131 and he will hear automatically the latest forecast, not only for Holland, but also for Great Britain, Belgium and North and West Germany. To this is added a statement of the distribution of high and low barometric pressure over Western Europe, and doubtless also an indication of the way in which the distribution is changing.

British Empire Cancer Campaign

ON the recommendations of its various committees, the Grand Council of the British Empire Cancer Campaign has made the following grants, totalling

£3,715, which are in addition to the sum of approximately £45,000 already approved in grants for the calendar year 1938: £1,100 to the Radium Beam Therapy Research; £750 for research by Mr. F. C. Pybus at Newcastle; £300 to Dr. P. R. Peacock, at the Glasgow Royal Cancer Hospital, for the salary of a whole-time assistant; £495 for the salary of the physicist at the Strangeways Research Laboratory, Cambridge; £750 for investigations being carried out under the direction of Dr. P. M. F. Bishop and Mr. H. J. B. Atkins, at Guy's Hospital; £270 to Dr. John Bruce, at the University of Edinburgh for part-time investigations, and £50 for a replacement in apparatus at the Strangeways Research Laboratory.

THE re-appointment of Dr. G. Cranston Fairchild as the William Morris Research fellow in radiology at Mount Vernon Hospital has been approved for a further period of three years. This fellowship was created by the Campaign in 1931 at the request of Lord Nuffield, who provided a sum of £25,000 for the purpose of promoting research work and study concerning the treatment and cure of cancer by radiology.

Excavations at Lachish, 1937-38

AN exhibition of antiquities from Lachish, excavated at Tell Duweir, Palestine, by the Wellcome Marston Archaeological Research Expedition to the Near East, was opened at the Wellcome Research Institution, 183-193 Euston Road, London, N.W.1, on July 7 and will remain open daily from 11 a.m. until 5 p.m. until July 29. Films of the excavations will be shown daily at 11.30 a.m. and 3 p.m. A lantern lecture on "New Discoveries at Lachish" will be delivered by Mr. C. H. Inge, who has succeeded the late Mr. J. L. Starkey as leader of the expedition, on Tuesday, July 19, at 5.30 p.m.; and on Wednesday, July 27, at 6 p.m., admission being free without ticket.

International Congress for Applied Mechanics

THE fifth International Congress for Applied Mechanics will be held at the Massachusetts Institute of Technology on September 12-16, under the presidency of Prof. Karl T. Compton. At the close of the Congress in Cambridge the members will proceed to Washington, D.C., where a programme of sightseeing and visits to Government laboratories will be arranged by the director of the National Bureau of Standards for September 19. Members will then proceed to Langley Field, Virginia (Old Point Comfort) to spend September 20 at the Langley Memorial Laboratory of the National Advisory Committee for Aeronautics. It is probable that other trips will be arranged for those members from abroad who may desire to visit Pittsburgh, Detroit, Niagara, Schenectady and other cities. The field of applied mechanics will be divided into the following general heads: (1) structures, elasticity, plasticity, fatigue, strength theory, crystal structure; (2) hydro- and aerodynamics, gas dynamics, hydraulics, meteorology, water waves, heat transfer; (3) dynamics of solids,

vibration and sound, friction and lubrication, wear and seizure. Further information can be obtained from the Joint Secretaries, Fifth International Congress for Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Massachusetts, U.S.A.

Congress of Anthropology and Ethnology

THE International Congress of Anthropological and Ethnological Sciences, which is being held in Copenhagen on July 31-August 6, promises an interesting programme. While sufficient time is being allowed for giving the various sectional papers, a number of excursions have been arranged. For example, a general meeting of the Congress is to be held in the Great Hall of the Castle of Kronborg, where native Greenlanders will show their skill in kayak paddling, etc. The most important function of these international congresses undoubtedly is to enable *savants* from different countries to meet and talk together; too many sectional papers leave not enough time for this. There are to be the usual number of banquets provided by the various official bodies. After the close of the Congress an excursion has been arranged to visit the various places of historical interest in Denmark. While one cannot expect to be repeated the outstanding generosity of the Rumanian Government, which last year provided *gratis* for the Congress of the International Institute of Anthropology a sleeping-car train for a week to visit all the interesting places in Rumania, the total expenses of a member of the forthcoming Congress in Denmark, when everything is considered, will not be at all excessive.

1851 Exhibition Scholarship Awards

THE Science Scholarships Committee of the Royal Commission for the Exhibition of 1851 announces the following appointments for 1938 for research at the various centres indicated: *Senior Studentships*: Dr. W. E. van Heyningen, biochemistry at the University of Cambridge; Dr. H. Walke, nuclear physics at the University of Liverpool; R. Brown, plant physiology at the Imperial College; Dr. W. A. Deer, petrology at the Universities of Manchester and Cambridge; Dr. R. A. Buckingham, mathematical physics at the Queen's University of Belfast and the Massachusetts Institute of Technology. *Oversea Scholarships*: Canada: Dr. W. M. Smith, physical chemistry at the University of Cambridge; Dr. G. C. Butler, biochemistry at University College Hospital, London; Dr. H. J. Bernstein, physical chemistry at the University of Copenhagen or the California Institute of Technology; D. C. MacPhail, engineering at the University of Cambridge. Australia: A. A. Townsend, physics at the University of Cambridge; A. J. Birch, organic chemistry at the University of Oxford; M. E. Griffiths, endocrinology at McGill University, Montreal. New Zealand: E. F. Daly, physical chemistry at University College, London, or the University of Manchester. India: Dr. R. S. Krishnan, physics at the University of Cambridge; Dr. N. K. Panikkar, zoology at the Marine Biological Laboratory, Plymouth.