

University of California Publications in American Archaeology and Ethnology. Vol. 25, No. 2: Mentawai Religious Cult. By Edwin M. Loeb. Pp. 185-247+plates 69-73. 80 cents. Vol. 25, No. 3: Tribal Initiations and Secret Societies. By Edwin M. Loeb. Pp. 249-288. 50 cents. (Berkeley, Calif.: University of California Press; London: Cambridge University Press.)

Deutsche Seewarte. Aus dem Archiv der Deutschen Seewarte. Band 46, Nr. 3: Gezeitenuntersuchungen in der Deutschen Bucht der Nordsee. Nach Beobachtungen an Bord des Vermessungsschiffes Panther im Juni 1924. Im Auftrage der Deutschen Seewarte bearbeitet von Dr. H. Thorade. Pp. 85+4 Tafeln. (Hamburg.)

Department of Commerce: Bureau of Standards. Research Paper No. 45: Apparatus and Methods for the Separation, Identification and Determination of the Chemical Constituents of Petroleum. By Edward W. Washburn, Johannes H. Bruun and Mildred M. Hicks. Pp. 467-483+5 plates. 10 cents. Research Paper No. 46: Recombination Spectra of Ions and Electrons in Calcium and Helium. By F. L. Mohler and C. Boeckner. Pp. 489-500. 5 cents. Research Paper No. 49: Discharge Coefficients of Square-edged Orifices for Measuring the Flow of Air. By H. S. Bean, E. Buckingham and P. S. Murphy. Pp. 561-658+2 plates. 20 cents. (Washington, D.C.: Government Printing Office.)

Proceedings of the United States National Museum. Vol. 74, Art. 13: Tschermigite, Ammoniojarosite, Epsomite, Celestite and Paligorските from Southern Utah. By Earl V. Shannon. (No. 2758.) Pp. 12. Vol. 74, Art. 15: The Fossil Crinoid Genus *Vasocrinus* Lyon. By Edwin Kirk. (No. 2760.) Pp. 16+2 plates. Vol. 74, Art. 21: Miargyrite Silver Ore from the Randsburg District, California. By Earl V. Shannon. (No. 2766.) Pp. 10. Vol. 74, Art. 24: Notes and New Species of American Moths of the Genus *Scoparia* Haworth. By Harrison G. Dyar. (No. 2769.) Pp. 9. Vol. 74, Art. 25: A New Salamander from Southern California. By Emmett Reid Dunn. (No. 2770.) Pp. 3. (Washington, D.C.: Government Printing Office.)

## Diary of Societies.

### FRIDAY, APRIL 19.

PHYSICAL SOCIETY (at Imperial College of Science), at 5.—Presentation of the Guthrie Medal to Dr. C. E. Guillaume.—Prof. W. R. Bridgman: The Properties of the Elements under High Pressures (Guthrie Lecture).  
 BRITISH INSTITUTE OF RADIOLOGY (Medical), at 5.—Informal Discussion on Bone-Diseases (especially Multiple Myeloma).  
 INSTITUTION OF MECHANICAL ENGINEERS, at 6.—W. Reavell: The Standardisation of Keys and Keyways.  
 INSTITUTION OF ELECTRICAL ENGINEERS (London Students' Section) (Annual General Meeting), at 6.15.—V. E. Connor: The Manufacturing and Testing of Submarine Cables.  
 ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—B. Chambers and F. W. Sharp: Carbon and Carbro.  
 SOCIETY OF DYERS AND COLOURISTS (Glasgow Section) (at 7 Gordon Street, Glasgow), at 7.15.—Annual General Meeting.  
 WEST BROMWICH ENGINEERING SOCIETY (at Kenrick Technical College, West Bromwich), at 7.30.—D. G. Mackintosh: The Erection of Steel Bridges.  
 JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—Lt.-Col. J. T. C. Moore-Brabazon: Early Aviation (Lecture).  
 INSTITUTION OF BRITISH FOUNDRYMEN (Sheffield Branch) (Annual Meeting) (at Albany Hotel, Sheffield), at 7.45.—Recent Developments in Cupola Control.  
 ROYAL SOCIETY OF MEDICINE (Electro-Therapeutics Section), at 8.30.—Dr. S. G. Scott: Myeloma—Differential Diagnosis.—Dr. J. D. White: Bone Lesions in Tropical Diseases.  
 ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Prof. Owen T. Jones: History of the Grand Canyon, Yellowstone National Park.  
 SOCIETY OF DYERS AND COLOURISTS (Manchester Section) (at Manchester).—Annual General Meeting.

### SATURDAY, APRIL 20.

INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS (Southern District) (at Council House, Bristol), at 10.30 A.M.—H. F. Proctor: Description of the New Power Station, Portishead.  
 NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS (Newcastle-upon-Tyne), at 2.30.—C. H. Leeds: Boring against Workings likely to contain an Accumulation of Water or other Liquid Matter, and a Method of Negotiating a Fault.—C. N. Kemp: The X-Ray Analysis of Coal: the Radiographic Variables and their Control.—Papers open for discussion:—Roof Control on Longwall Faces, J. F. C. Friend; Diamond Boring Applied to Tapping Drowned Areas Underground, F. E. Smyth; Land Drainage, H. C. Pawson; The Laws of Motion of Particles in a Fluid, R. G. Lunnon.  
 MINING INSTITUTE OF SCOTLAND (at Royal Technical College, Glasgow).—Annual Meeting.

### MONDAY, APRIL 22.

ROYAL GEOGRAPHICAL SOCIETY (at Lower Lodge), at 4.—Miss E. R. G. Taylor: Roger Barlow: an Early XVth Century Geographer.  
 VICTORIA INSTITUTE, at 4.30.—Dr. A. T. Schofield: Humanity.  
 INSTITUTION OF MECHANICAL ENGINEERS (Graduates' Section, London), at 6.30.—Informal Discussion on The Engineer as a Salesman.  
 INSTITUTION OF AUTOMOBILE ENGINEERS (Graduates' Meeting) (at Loughborough College), at 7.—H. M. Smith: Steering Gears.  
 INSTITUTION OF AUTOMOBILE ENGINEERS (North of England Centre) (at Sheffield University), at 7.—Dr. H. J. Gough: Recent Developments in the Study of the Fatigue of Metals.  
 ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN (Informal Meeting of Kinematograph Group), at 7.—H. A. Carter: The De Vry 16 mm. Synchronised Sound Motion Picture Apparatus, with Projection of Films and Synchronised Gramophone Records.  
 ROYAL INSTITUTE OF BRITISH ARCHITECTS, at 8.—J. Begg: The Work of George Wittet.  
 ROYAL SOCIETY OF ARTS, at 8.—Sir E. Denison Ross: Nomadic Movements in Asia (Cantor Lectures) (II).

ROYAL SOCIETY OF MEDICINE (Odontology Section), at 8.—G. Northcroft: The Migration of a Foreign Body.—S. Friel: The Relation of Function to the Size and Form of the Jaws.

ROYAL GEOGRAPHICAL SOCIETY (at Polytechnic, Regent Street), at 8.30.—G. M. Dyott: The Search for Col. Fawcett (with Kinematograph Films).

### TUESDAY, APRIL 23.

ROYAL SOCIETY OF MEDICINE (Medicine Section), at 5.—Dr. O. Leyton: How can we decide whether a case of Glycosuria should be treated?—Dr. W. T. Munro: Pulmonary Tuberculosis due to Bovine Tubercle Bacilli.

ZOOLOGICAL SOCIETY OF LONDON, at 5.30.—Secretary: (a) Report on the Additions to the Society's Menagerie during the month of March 1929; (b) Exhibition and Note on the Society's Scientific Publications.—S. G. M. Ramanujam: The Study of the Development of the Vertebral Column in Teleosts, as shown in the Life-history of the Herring.—Prof. E. B. Poulton: British Insectivorous Bats and their Prey.

INSTITUTION OF CIVIL ENGINEERS, at 6.

LONDON NATURAL HISTORY SOCIETY (at Winchester House, E.C.) (Insect Memorial Meeting), at 6.30.—R. S. Bagnall: Plants and their Insect Associates.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—H. R. Ward: Some Continental Zoos.

INSTITUTION OF AUTOMOBILE ENGINEERS (Wolverhampton Centre) (at Engineering and Scientific Club, Wolverhampton), at 7.30.—H. W. Pitt: Central Lubrication of Chassis Bearings.

### WEDNESDAY, APRIL 24.

EUGENICS SOCIETY (at Royal Society), at 5.15.—C. J. Bond: Hemilateral Asymmetry in Animals and Man, and its Relation to Cross-breeding (Lecture).

NEWCOMEN SOCIETY FOR THE STUDY OF THE HISTORY OF ENGINEERING AND TECHNOLOGY (at Caxton Hall), at 5.30.—C. F. Dendy-Marshall: The Rainhill Locomotive Trials of 1829.

GEOLOGICAL SOCIETY OF LONDON, at 5.30.—R. Murray-Hughes: The Geology of Part of North-Western Rhodesia; with Petrographical Notes by A. A. Fitch.

ROYAL SOCIETY OF ARTS, at 8.—Lynton Fletcher: Recent Developments in Educational Broadcasting.

### THURSDAY, APRIL 25.

LONDON MATHEMATICAL SOCIETY (at Royal Astronomical Society), at 5.—S. D. Chowla: Some Formule Connected with Gauss's Sums.—Doris M. Hirst: On Expansions which are Formally Reduced to Zero by the Operator  $Sinh D - cD$ .—Prof. E. W. Hobson: On a Generalisation of Watson's Expressions for Legendre's Functions.—Prof. R. L. Jeffery: The Continuity of a Function Defined by a Definite Integral.—J. Tennant: Nasik or Pandiagonal Squares of the Order of any Odd Prime.

INSTITUTE OF PATHOLOGY AND RESEARCH (St. Mary's Hospital, W.2), at 5.—Sir Almoth E. Wright: The Experimental Method in Medicine.

CHEMICAL SOCIETY (at Institution of Mechanical Engineers), at 5.30.—Sir Harold Hartley: Theodore W. Richards Memorial Lecture.

ROYAL SOCIETY OF MEDICINE (Urology Section), at 5.30.—Dr. P. J. Cammidge: Prostatectomy in Diabetics.

INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—Dr. G. C. Simpson: Lightning (Kelvin Lecture).

ROYAL AERONAUTICAL SOCIETY (at Royal Society of Arts), at 6.30.—Squadron-Leader C. L. Scott: By Flying Boat to India.

### FRIDAY, APRIL 26.

PHYSICAL SOCIETY (at Imperial College of Science), at 5.—T. Smith, Dr. G. F. C. Searle, Instructor-Capt. T. Y. Baker, Dr. J. W. French, W. E. Williams, C. G. Vernon, H. H. Emsley, C. W. Hansel, H. Tunley, L. Moore, Conrad Beck, V. T. Saunders, and Dr. C. V. Drysdale: Discussion on The Teaching of Geometrical Optics.

ROYAL SOCIETY OF MEDICINE (Disease in Children Section), at 5.

ROYAL INSTITUTION OF GREAT BRITAIN, at 7.—E. A. Salt: Platinotype.

INSTITUTION OF ELECTRICAL ENGINEERS (Scottish Centre) (at University College, Dundee), at 7.30.—W. Holmes: Load-levelling Relays and their Application in connexion with Future Metering Problems.

ROYAL SOCIETY OF MEDICINE (Epidemiology Section), at 8.—Dr. J. G. Thomson: Endemic Malaria in Southern Rhodesia.

BRITISH PSYCHOLOGICAL SOCIETY (Industrial Section) (at National Institute of Industrial Psychology), at 8.—J. N. Langdon: Evidence of a Central Factor in Tests of Manual Dexterity.

ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Prof. R. W. Chambers: English Civilisation from Alfred to Harold, 900-1066.

## PUBLIC LECTURES.

### MONDAY, APRIL 22.

THE UNIVERSITY, GLASGOW, at 5.—Sir Norman Walker: Medical Education and Qualification in the United States.

### TUESDAY, APRIL 23.

GRESHAM COLLEGE (Basinghall Street), at 6.—A. R. Hinks: Latitudes and Longitudes (Gresham Lectures). (Succeeding Lectures on April 24, 25, and 26.)

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—C. E. Stromeyer: What Health and Civilisation owe to Engineering (Chadwick Lecture).

### WEDNESDAY, APRIL 24.

UNIVERSITY OF BIRMINGHAM, at 4.30.—Dr. C. Singer: Epochs of Medical History. (Succeeding Lectures on May 1 and 8, June 19 and 26.)

MANSION HOUSE (arranged by British Science Guild), at 4.30.—Developments of British Chemical Manufactures. Lord Melchett in the chair.—Sir Frederick Keeble: Fertilisers from the Air.—A. B. Shearer: Rayon (Artificial Silk).—F. H. Carr: Synthetic Drugs.

### FRIDAY, APRIL 26.

WORLD ASSOCIATION FOR ADULT EDUCATION (16 Russell Square, W.C.1), at 8.30.—Miss R. M. Fleming: Soil and Civilisation in Russia.