

J. W. R. RAKITIN: Flower-bud drop in some varieties of the cotton plant under the influence of different lengths of day.

K. ARNOLDI: Life forms in ants.

L. N. ZHINKIN: Experiments on the reversion of polarity during regeneration in *Lumbriculus variegatus* Müll.

VERA GROMOVA: New finds of Late Pleistocene fauna in North Caucasus.

(C.R., 16, No. 7, 1937.)

V. V. ČELINCEV: Furfurylidene- and benzylidene-phenol systems and their fusibility diagrams.

A. D. GELMAN: Compounds of platinum with unsaturated hydrocarbons of the ethylene series.

D. P. SERDIUČENKO: The isomorphic series kerolite-beidellite in argillaceous silicates.

A. N. ADOWA and I. A. SMORODINZEW: Oxidoreduction potential during the pepsin digestion of proteins.

N. I. MAKOVNIK: A new tungsten-bearing region in the U.S.S.R.

T. N. AGAFONOVA: Quantitative mineralogical X-ray analysis.

G. N. VERTUŠKOV: Alpine type veins in the Urals.

A. NIKONOV: Stratigraphy of the sources of the Katun River in the Altai Mountains.

I. N. KONOVALOV: An experiment in vernalizing the embryos of wheat seeds without endosperm.

Washington, D.C.

National Academy of Sciences (*Proc.*, 23, 535-559, Oct. 15, 1937).

C. C. LITTLE and A. M. CLOUDMAN: Occurrence of a dominant spotting mutation in the house mouse. A new mutation has been found, probably an allele of the dominant spotting already known and more viable in the homozygous condition.

E. W. BERRY: Succession of fossil floras in Patagonia. Following the Late Jurassic cosmopolitan floras, conditions during Lower and Upper Cretaceous did not prevent colonization by elements representing Upper Cretaceous flowering plants. Early in the Tertiary, a change occurred which allowed a flora of small-leaved and largely beech forest (Eocene) to extend down to Antarctica.

B. H. WILLIER, MARY E. RAWLES and E. HADORN: Skin transplants between embryos of different breeds of fowl. Skin ectoderm (0.5 mm. × 1 mm.) was taken from the dorso-lateral surface of the head, freed from mesoderm, and inserted, through a window cut in the shell of another egg, at the base of the right wing or the leg bud; both donor and host were incubated for about 75 hours. The embryos were examined when 15 days old, when they have well-developed down feathers. Black skin grafts give a patch of black feathers, but white skin grafts on a black breed have no apparent effect. It seems that skin ectoderm is dependent on the position on the host for the form of feathers produced, but as regards colour, the feathers are dependent on the genic constitution of the graft.

A. D. MICHAL: General projective differential geometry.

G. A. MILLER: Groups in which every sub-group of composite order is invariant.

H. S. VANDIVER: (1) The concept of co-sets in a semi-group. (2) Generalizations on the numbers of Bernoulli and Euler.

## Forthcoming Events

Friday, January 7

ENGINEERING PUBLIC RELATIONS COMMITTEE (at the Institution of Electrical Engineers), at 3.—Prof. C. E. Inglis, F.R.S.: "Building Big Bridges" (Christmas Lectures for Young People. Succeeding lecture on January 10).

CONFERENCE OF EDUCATIONAL ASSOCIATIONS, January 3-10. To be held in University College, London.

The Right Hon. Sir Kingsley Wood, M.P.: "Education and Health" (Presidential Address).

GEOGRAPHICAL ASSOCIATION, January 4-6. Annual Conference to be held in the London School of Economics.

January 4, Prof. Patrick Abercrombie: "Geography, the Basis of Planning" (Presidential Address).

ANNUAL EXHIBITION OF SCIENTIFIC APPARATUS BY THE PHYSICAL SOCIETY, January 4-6. To be held at the Imperial College of Science and Technology, London.

Discourses:

January 4, Capt. G. C. C. Damant: "Diving in Deep Water and Shallow".

January 5, Prof. A. F. C. Pollard: "Mechanisms for Measuring Small Changes".

SCIENCE MASTERS ASSOCIATION, January 4-7. To be held in the Chemistry Department of the Imperial College of Science and Technology, South Kensington, S.W.7.

January 4, Sir Cyril Ashford: "Past and Future Aims of School Science" (Presidential Address).

January 5, Sir Richard Gregory, Bt., F.R.S.: "Science and Citizenship".

## Appointments Vacant

APPLICATIONS are invited for the following appointments, on or before the dates mentioned:

ASSISTANT LECTURER IN AERONAUTICS in the Imperial College of Science and Technology, Prince Consort Road, S.W.7.—The Secretary (January 7).

RESEARCH CHEMIST (subsidiary subjects physics or metallurgy) for the Northern Coke Research Committee—Secretary, Northern Coke Research Committee, King's College, Newcastle-on-Tyne.

## Official Publications Received

### Great Britain and Ireland

Edinburgh Geological Society. Geological Excursion Guide to the Assynt District of Sutherland. By Dr. M. Macgregor and Dr. J. Phenister. Pp. 62+4 plates. (Edinburgh: Edinburgh Geological Society.) 2s. [1911]

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1741 (2361): Full Scale Lift, Drag and Landing Measurements of a Monoplane fitted with a Zap Flap. By E. T. Jones, J. Cohen and F. A. Hutton. Pp. 27. 4s. net. No. 1758 (2499): The Vibration of Airscrew Blades with particular reference to their Response to Harmonic Torque Impulses in the Drive. By B. C. Carter. Pp. 37. 6s. 6d. net. No. 1770 (2589): The Behaviour of a Pitot Tube in a Transverse Total-Pressure Gradient. By A. D. Young and J. N. Maas. Pp. 16. 2s. 6d. net. No. 1775 (2724): The Experimental Determination of the Bending Actions induced by Axial End Constraints in a Rectangular Tube in Torsion. By D. Williams and C. B. Smith. Pp. 19. 3s. net. No. 1776 (2552): Note on the Directional Stability of Seaplanes on the Water. By Dr. J. P. Gott. Pp. 14. 2s. net. No. 1777 (2664): Effect of Differences of Form on the Porpoising Characteristics of Two Flying Boats. By L. Johnston and W. D. Tye. Pp. 10. 1s. 6d. net. No. 1778 (2806): Note on the Standardisation of Pitot-Static Head Position of Monoplanes. By S. B. Gates and J. Cohen. Pp. 14. 2s. net. No. 1780 (2956): Diffusion of Concentrated Loads into Monocoque Structures. By H. L. Cox, H. E. Smith and C. G. Conway. Pp. 16. 2s. 6d. net. (London: H.M. Stationery Office.) [1911]

### Other Countries

J. E. Purkinje: Commentatio de examine physiologico organi visus et systematis cutanei, Vratislaviae 1823. Quam pro loco in Gratioso Medicorum Ordine. By Guilelmo Kraus. Pp. 58. ('s-Gravenhage: Dr. W. Junk.) 8 guilders. [1911]