

principal mineral constituents. Produces seven sections, e.g. granitic, gabbroic, theralitic, &c. (3) Based on community of origin from similar parent magmas. The latter are defined by the presence of certain index minerals in the consolidated rocks (e.g. a granite, a granite-aplite, and a rhyolite, &c., may all be derived from one magma; other granites, rhyolites, &c., will be derived from similar magmas). Produces twelve orders, e.g. granates, essexates, &c. (4) Based on habit of mass. Produces seven families in each order, e.g. granophites, dioromicrites, gabbrolavites (basalts), &c. (5) Based on nature of minor mineral constituents. Produces a number of genera in each family, e.g. muscigranophite, anaugi-hyper-peridotite (harzburgite). (6) Based on texture, but to be applied only in families where there is much variety of texture. Produces subgenera, e.g. spheri-mono-rhyolite, graphi-bi-rhyolite, &c. The system of nomenclature described is an elaboration of that already proposed by the author in a preliminary paper in the *Geological Magazine* (1901).

BENGAL.

**Asiatic Society of Bengal, January 4.**—Hierarchy of the Dalai Lama (1406-1726): Rai Sarat **Chandra Das**. The author gives a history of the origin and growth of power of the Dalai Lama.—On the prevalence of fevers in the Dinajpur district: Dr. L. **Rogers**. This paper deals with the results of a special inquiry into the causes of the very high mortality of above forty per thousand in the Dinajpur district. It is shown that the higher death rates in certain places are due mainly to malaria, the increased prevalence of which is closely related to a high ground water level due to unalterable physical conditions of the district. In the second part of the paper the varieties of fever met with and distribution of the anopheles which can carry the infection are dealt with, and the impracticability of mosquito destruction as a preventive measure in the district as a whole is pointed out. The wider distribution of quinine in each village through the agency of the primary schoolmasters so as to reach the children, who mainly die of the disease, is recommended as the only practicable method of lessening the death rates from malaria among the people of Lower Bengal.

DIARY OF SOCIETIES.

THURSDAY, FEBRUARY 2.

ROYAL SOCIETY, at 4.30.—On the Compressibility of Gases between One Atmosphere and Half an Atmosphere of Pressure: Lord Rayleigh, O.M., F.R.S.—On the "Blaze Currents" of the Gall Bladder of the Frog: Mrs. A. M. Waller.—The Theory of Photographic Processes: On the Chemical Dynamics of Development: S. E. Sheppard and C. E. K. Mees.—On the Relation between Variations of Atmospheric Pressure in North-East Africa, and the Nile Flood: Capt. H. G. Lyons.—Note on the Determination of the Volume Elasticity of Elastic Solids: Dr. C. Chree, F.R.S.—Theory of the Reflection of Light near the Polarising Angle: Prof. R. C. Maclaurin.  
ROYAL INSTITUTION, at 5.—Forestry in the British Empire: Prof. W. Schlich.  
CIVIL AND MECHANICAL ENGINEERS' SOCIETY, at 8.—The Mechanics of Flour Milling: A. R. Tattersall.  
LINNEAN SOCIETY, at 8.—Descriptions of New Chinese Plants (with lantern slides): W. J. Tutcher.—European Cirolaninæ (Isopoda): Dr. H. J. Hansen.  
RÖNTGEN SOCIETY, at 8.15.—Some Points in the Construction of a High Frequency Machine: Dr. Clarence A. Wright.  
CHEMICAL SOCIETY, at 8.—Studies in the Camphane Series. Part xvi. Camphorylcarbinide and Isomeric Camphorylcarbamides: M. O. Forster and H. E. Fierz.

FRIDAY, FEBRUARY 3.

ROYAL INSTITUTION, at 9.—Blood Pressure in Man: Prof. T. Clifford Allbutt, F.R.S.  
GEOLOGISTS' ASSOCIATION, at 7.30.—Address on Modern Methods in the Study of Fossils: the President, Dr. A. Smith Woodward, F.R.S.

MONDAY, FEBRUARY 6.

SOCIETY OF CHEMICAL INDUSTRY, at 8.—The Theory of Dyeing. Part ii. Pseudo-solution and Desolution: W. P. Dreaper.—The Fading of Inks and Pigments: J. W. Lovibond.  
SOCIETY OF ARTS, at 8.—Fountain Pens: James P. Maginnis.

TUESDAY, FEBRUARY 7.

ROYAL INSTITUTION, at 5.—The Structure and Life of Animals: Prof. L. C. Miall, F.R.S.  
ZOOLOGICAL SOCIETY, at 8.30.—On Abnormal Ranid Larvæ from North-eastern India: Nelson Annandale.—On a Second Collection of Fishes made by S. L. Hinde in the Kenya District, East Africa: G. A. Boulenger, F.R.S.—On some Points in the Anatomy of Diademedon: Dr. R. Broom.—Notes on the Mammals of Southern Cameroons and the Denito: George L. Bates.  
INSTITUTION OF CIVIL ENGINEERS, at 8.—Discussion: Floating Docks: L. E. Clark.—Papers: Alfreton Second Tunnel: E. F. C. Trench.—The Reconstruction of Moncreiffe Tunnel: Dugald McLellan.

WEDNESDAY, FEBRUARY 8.

SOCIETY OF ARTS, at 8.—Time Development in Photography, and Modern Mechanical Methods of carrying it out: R. Child Bayley.

THURSDAY, FEBRUARY 9.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: (1) On the Conversion of Electric Oscillations into Continuous Currents by means of a Vacuum Valve: (2) On a Kummeter for the Measurement of the Length of Long Electric Waves, and also small Inductances and Capacities: Prof. J. A. Fleming, F.R.S.—Report on an Area of Local Magnetic Disturbance in East Loch Roag, Lewes, Hebrides: Captain A. M. Field, R.N.—Phosphorescence caused by the Beta and Gamma Rays of Radium: G. T. Beilby.—(1) The Spectrum of Scandium and its Relation to Celestial Spectra; (2) Note on the Spectrum of  $\mu$  Centauri; (3) On the Stellar Line near  $\lambda$  4686: Sir Norman Lockyer, K.C.B., F.R.S., and F. E. Baxandall.—On Europium and its Ultra-Violet Spectrum: Sir William Crookes, F.R.S.

ROYAL INSTITUTION, at 5.—Forestry in the British Empire: Prof. W. Schlich, F.R.S.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Fuel Economy in Steam Power Plants: W. H. Booth and J. B. C. Kershaw. (Conclusion of discussion).—The Value of Overhead Mains for Electric Distribution in the United Kingdom: G. L. Addenbrooke.

MATHEMATICAL SOCIETY, at 5.30.—General Theory of Transfinite Numbers and Order-types: Dr. E. W. Hobson.—On the Reducibility of Covariants of Binary Quadratics of Infinite Order. Part ii: Mr. P. W. Wood.

FRIDAY, FEBRUARY 10.

ROYAL INSTITUTION, at 9.—The Art of the Ionian Greeks: Dr. Cecil Smith.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Anniversary Meeting.  
MALACOLOGICAL SOCIETY.—Annual General Meeting. Address by the President, Mr. E. R. Sykes, on Variation (including Teratology) in Recent Mollusca.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Reconstruction of the Santa Lucia River Bridge, Uruguay: P. J. Risdon.

CONTENTS.

	PAGE
The Quintessence of Hæckelism	313
A Useful Book for Fruit Growers. By R. H. P.	314
A Traveller's Companion. By G. A. J. C.	315
The Teaching of Science. By A. T. S.	316
Our Book Shelf:—	
Sutro: "The Basic Law of Vocal Utterance"; "Duality of Voice and Speech. An Outline of Original Research"; "Duality of Thought and Language. An Outline of Original Research"	317
Bolton: "A Select Bibliography of Chemistry, 1492-1902."—J. B. C.	317
Guiton: "Hints on Collecting and Preserving Plants"	317
Butt: "Practical Retouching"	317
Wagner: "Stories from Natural History"	317
Letters to the Editor:—	
Compulsory Greek at Cambridge.—A. B. Basset, F.R.S.	318
Can Birds Smell?—Dr. Alex. Hill	318
The Origin of Radium.—W. C. D. Whetham, F.R.S.	319
Fact in Sociology.—H. G. Wells	319
The Fertilisation of <i>Jasminum nudiflorum</i> .—Prof. John G. McKendrick, F.R.S.	319
The Moon and the Barometer.—(With Diagram.) Alex. B. MacDowall	320
Reversal in Influence Machines.—Charles E. Benham	320
Dates of Publication of Scientific Books.—R. P. Paraiyye	320
Super-cooled Rain Drops.—Cecil Carus-Wilson	320
Para Rubber. (Illustrated.) By C. Simmonds	321
Prehistoric England. (Illustrated.)	322
Meeting of the British Association in South Africa	323
The Royal Commission on Coal Supplies	324
Notes	325
Our Astronomical Column:—	
Astronomical Occurrences in February	328
Jupiter's Sixth Satellite	329
Ephemeris for Comet 1904 e	329
Solar Eclipse Problems	329
The Conditions in the Solar Atmosphere during 1900-I	329
Triangulation of the Pleiades Stars	329
A Bright Meteor	329
The General Motion of Clouds	329
American Hydroids	331
University and Educational Intelligence	331
Societies and Academies	333
Diary of Societies	336