ductases : Emm. Pozzi-Escot. A claim for priority as against MM. Abelous and Aloy .- On the development of the vascular cryptogams : G. Chauveaud. The stem of the fern is constituted by the fusion of different parts, varying in number according to the level considered.—On the systematic position of the endophytes of orchids : I. Gallaud. Several authors have obtained from the roots of orchids fungi allied to Fusarium, but these would appear to have been external; the endophytic forms obtained from the cells of the orchid are distinct from Fusarium .-- The mycelium and conidian form of the Morel : Marin Molliard .--On the age of the human skeletons from the caves of Mentone : Marcellin **Boule**. The skeletons would appear to be of the same age as the deposits in which they were found, corresponding to the warm and most ancient period of the Quaternary. Other skeletons found in higher layers correspond to later periods of the same formation .- On a tunnel at Oupliz-Tsike, Transcaucasia: E. A. Martel,-Researches on the emission of the n-rays in certain phenomena of inhibition : Aug. **Charpentier** and Ed. **Meyer.**—The action of the radium radiations on colloids, hæmoglobin, ferments, and the red corpuscles: Victor **Henri** and André **Mayer.** The β -rays, charged negatively, can precipitate positive colloids, and are without action on negative colloids. Oxyhæmoglobin from the dog and the frog is transformed into methæmoglobin and slowly precipitated; carbonoxyhæmoglobin remains unaltered. Ferments under the action of the rays slowly lose their activity, and after several days become completely inactive.-The emission of the n-rays in certain pathological cases: Gilbert Ballet.-The influence of the radium radiations on the toxicity of snake poison: C. Phisalix. The rays emitted by radium exercise an attenuating influence on snake poison, the intensity of which is a function of the time.-A physical and chemical method of recognising and measuring deep sub-marine currents: M. **Thoulet.**—Some new observations on phthiriosis in the vine: L. **Mangin** and P. **Viala.**—On the effects of grafting on the vine : Lucien Daniel and Ch. Laurent.

DIARY OF SOCIETIES.

THURSDAY, MARCH 3.

- ROVAL SOCIETY, at 4.30.—An Inquiry into the Nature of the Relationship between Sunspot Frequency and Terrestrial Magnetism: Dr. C. Chree, F.R.S.—The Optical Properties of Vitreous Silica: J. W. Gifford and W. A. Sherastone, F. R.S.—A Radial Area-Scale: R. W. K. Edwards.— The Origin of the Flutings in the Spectra of Antarian Stars: A. Fowler.
- ROVAL INSTITUTION, at 5.—Electrical Methods of Measuring Tempera-ture: Prof. H. L. Callendar, F.R.S.
- RONTGEN SOCIETY, at 8.30.—Presidential Address: Some Laboratory Notes of the last Six Months.
- LINNEAN SOCIETY, at 8.—List of the Species of Carex known to occur in Malaya: C. B. Clarke, F.R.S.—On some Species of the Genus Palæmon, Fabr., from Tahiti, Shanghai, New Guinea, and West Africa: Dr. J. G. de Man.
- CHEMICAL SOCIETY, at 8.—Chemical Dynamics of the Alkyl Iodides: Miss K. A. Burke and F. G. Donnan: The Constitution of Phenol-phthalein: A. G. Green and A. G. Perkin.—&Ketohexahydrobenzoic Acid: W. H. Perkin, junr.—Photochemically active Chlorine: C. H. Burgess and D. L. Chapman.

FRIDAY, MARCH 4

ROYAL INSTITUTION, at 9.-Breathing in Living Things: Prof. W. Stirling.

GEOLOGISTS' ASSOCIATION, at 8.—Remarks on the British Association Geological Photographs: Dr. C. Gilbert Cullis.

SATURDAY, MARCH 5.

ROYAL INSTITUTION, at 3.- The Life and Work of Stokes : Lord Rayleigh. MONDAY, MARCH 7

ROYAL INSTITUTION, at 5.-General Monthly Meeting. ARISTOTELIAN SOCIETY, at 8 .- Faith and the Will to Believe: L. T.

- Hobhouse.
- SOCIETY OF CHEMICAL INDUSTRV, at 8.—Observations on Cotton and Nitrated Cotton: H. de Mosenthal.—The Products, and Relative Temperature of Combustion of some Smokeless Powders: W. Macnab and A. E. Leighton.
- RoyaL GEOGRAPHICAL SOCIETY, at 8.30.—Journeys on the River Yalu and in Southern Manchuria: R. T. Turley.—About Korea: Rev. C. T. Collyer.
- SOCIETY OF ARTS, at 8.-Recent Advances in Electro-Chemistry: Bertram Blount. (Cantor Lecture, I).
- VICTORIA INSTITUTE, at 4:30.—Date of the Last Rise of the Land in the British Isles : Prof. E. Hull, F.R.S.

NO. 1792, VOL. 69

TUESDAY, MARCH 8.

ROVAL INSTITUTION, at 5.- Japanese Life and Character : E. Foxwell. INSTITUTION OF CIVIL ENGINEERS, at 8 .- The Erection of Iron Bridges: R. S. Scholefield.

ANTHROPOLOGICAL INSTITUTE, at 8.15.—The Gilyaks and other Tribes of Sakhalin: C. H. Hawes.

WEDNESDAY, MARCH 9.

- SOCIETY OF ARTS, at 8.-Mechanical Piano Players : J. W. Coward.
- GEOLOGICAL SOCIETY, at 8.—On the Probable Occurrence of an Eocene Outlier off the Cornish Coast : Clement Reid, F.R.S.—The Valley of the Teign : A. J. Jukes-Browne.

THURSDAY, MARCH 10.

ROYAL INSTITUTION, at 5.—Electrical Methods of Measuring Tempera-ture: Prof. H. L. Callendar, F.R.S.

- MATHEMATICAL SOCIETY, at 5.30, -On Inner Limiting Sets of Points: Dr. E. W. Hobson, -On the Unique Expression of a Quantic of any Order in any Number of Variables with an Application to Binary Per-petuants: Mr. P. W. Wood, -The Derivation of Generalised Bessel Coefficients from a Function Analogous-to the Exponential: Rev. F. H. Jackson, -Illustrative Examples of Modes of Decay of Vibratory Motions: Prof. A. E. H. Love.
- INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Railway Electrifica-tion Problem and its Probable Cost for England and Wales: F. F. Bennett.—The Rated Speed of Electric Motors as affecting the Type to be Employed : H. M. Hobart.
- SOCIETY OF ARTS, at 4.30.—China Grass ; its Past, Present, and Future : Frank Birdwood.

FRIDAY, MARCH II

- ROVAL INSTITUTION, at 9.- The Motion of Viscous Substances: Prof. F. T. Trouton, F.R.S.
- INSTITUTION OF CIVIL ENGINEERS, at 8.—The Premium System of Payment for Labour : W. G. Banister.
- PHYSICAL SOCIETY, at 3. MALACOLOGICAL SOCIETY, at 5.—A *Résumé* of Recent Researches on the Structure of Pelecypod Gills: Dr. W. G. Ridewood. —Descriptions of two new Species of Opishostoma from Borneo: E. A. Smith.—On some Non-Marine Hawaiian Mollusca: C. F. Ancey.—New Species of Mollusca from New Zealand: Rev. W. H. Webster.

SATURDAY, MARCH 12.

Royal Ins Rayleigh. INSTITUTION, at 3 .- The Life and Work of Stokes: Lord

CONTENTS.

PAGE

The	History	of	Elei	ment	lary	Ma	the	mat	ICS.		B	1	
G,	B. M												409
The	Practical	Me	thod	s of	Fra	ctio	nal	Dis	still	ati	on	•	
By	E.C.C.I	в.											410

A French Manual of Forestry. By Prof. W. R. Fisher 410 Our Book Shelf :-Workman . "The School Arithmetic : heing a School

workman. The School Mittimictic, being a School	
Course adapted from 'The Tutorial Arithmetic'".	411
Wilson : "Free-hand Lettering ; being a Treatise on	•
Plain Lettering from the Practical Standpoint for	
Use in Engineering Schools and Colleges"	411
Buchanan and Gregory : "Junior Country Reader"	ATT
Hudson: "Green Mansions: a Romance of the	4
Tropical Forest"	411
Letters to the Editor -	411
The Blondlot #-Rays A A Campbell Swinton	41.2
Chall stuff Cos Prof Hanry E Armstrong	412
E B S. Draf Arthur Smithallo E B S.	
F.K.S.; FIOL Althur Smithells, F.K.S.	412
variation in Oat Hybrids John H. Wilson	413
Visitors from the High North in Central Italy	
Prof. Henry H. Giglioli	413
The New Buildings at Cambridge. (Illustrated.).	413
Education and Progress in Japan. By A. T.	
Simmons	416
The Evolution of Matter as Revealed by the Radio-	
active Elements	418
LieutGeneral C. A. McMahon, F.R.S. By	
H. W. B	419
The New Education Authority for London	420
Notes	421
Our Astronomical Column :	7
Astronomical Occurrences in March	121
Variability of Minor Planets	121
Observations of Venus during 1002	424
Catalogue of New Double Stars	424
Notes on the History of the Metrical Measures	445
and Weights Du Drof Herbart Mal and E D S	
University and Educational Intelligence	425
Societion and Academics	427
Societies and Academies	429
DIATY OF SOCIETIES	122