it was not possible to draw a wire in this alloy, they have yielded a negative coefficient of temperature. When the alloy contained only a small percentage of manganese, the coefficient was very small, so that such wires would be suitable for the construction of standard coils. In conclusion, he described how the resistances are measured in the Government Institute. The method employed is that of compensation, and measurement of poten-tials.-Dr. Jäger announced that Dr. de Coudres, in Leipzig, had succeeded in detecting a thermo-electric tension between compressed and uncompressed mercury. The compression was produced either hydraulically or by means of its own weight acting through a column of mercury. It was found possible to determine with certainty the direction of the thermo-electric current, and to measure its intensity for given pressures and tem-peratures. The investigation is not yet completed, but Dr. de Coudres hopes to be soon in a position to give a full account of his experiments.

In the report of the meeting of the Berlin Physical Society, January 27 (p. 383), for Dr. Lehmann read Dr. Leman.

STOCKHOLM.

Royal Academy of Sciences, February 12 .-- Contributions to the flora of the Hieracia of South-Eastern Sweden, by Herr H. Dahlstedt.-On the remains of a bread-fruit tree from the Cenoman strata of Greenland, by Prof. A. G. Nathorst .- Report on researches in practical pomology and horticulture during a tour in France and Germany, by Herr C. V. Hartman.—On the lichens of the island of Bornholm, by Dr. P. J. Hellbom.— Algæ aquæ dulcis exsiccatæ quas distribuerunt, V. Wittrock et O. Nordstedt, Parts 18-21, exhibited and demonstrated by Prof. Wittrock .- The results of a determination of the rotation of the sun, executed during the years 1887-89 in the Observatory of Lund, by Prof. Dunér.—On the influence of the duration of exposure for a photographic image of a star, by Dr. Charlier.— Experimental determination of the principal elements of a divergent lens, by Dr. C. Mebius, —Derivatives of sulphan urates, by Dr. Hector.—On the $\beta_1 = \alpha_1$ bromium naphthalin sulphon acid, and on the constitution of the acids which are formed by the agency of concentrated sulphuric acid on β -naphthylamin, by S. Forsling.—Experiments on the humidity of the atmosphere, by Dr. K. H. Sohlberg.—Anatomical studies on the floral axes of diclinous Phanerogams, by Herr A. Grevillius.

DIARY OF SOCIETIES.

LONDON.

THURSDAY, FEBRUARY 27. ROYAL SOCIETY, at 4.30.—The Crooniau Lecture—The Relations between Host and Parasite in certain Epidemic Diseases of Plants: Prof. H. Marshall Ward, F.R.S. SOCIETY OF ARTS, at 5.—The Northern Shan States and the Burma-China Railway: William Sherriff.

- Railway: William Snerni. INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Theory of Armature Reaction in Dynamos and Motors: James Swinburne.—Some Points in Dynamo and Motor Design: W. B. Esson. Royal INSTITUTION, at 3.—The Three Stages of Shakspeare's Art: Rev.
- Canon Ainger.
- FRIDAY, FEBRUARY 28. AMATEUR SCIENTIFIC SOCIETY, at 8.—Practical Coal-mining: H. S.

Streatfeild. ROYAL INSTITUTION, at 9 .- Evolution in Music : Prof. C. Hubert H. Parry.

SATURDAY, MARCH 1. ESSEX FIELD CLUB, at 7.—Micro-Fungi of Epping Forest ; how to Collect, Preserve, and Study Them : Dr. M. C. Cooke. Royal INSTITUTION, at 3.—Electricity and Magnetism : Right Hon. Lord

- Rayleigh, F.R.S.
- SUNDAY, MARCH 2. SUNDAY LECTURE SOCIETY, at 4.—Apollonius of Tyana; the Story of his Life and Miracles: G. Wotherspoon.

MONDAY, MARCH 3. SOCIETY OF ARTS, at 8.—Stereotyping: Thomas Bolas. ARISTOTELIAN SOCIETY, at 8.—The Psychological Development of the Conceptions of Causality and Substance: G. F. Stout. VICTORIA INSTITUTE, at 8.—Chinese Chronology: Rev. James Legge. ROYAL INSTITUTION, at 5.—General Monthly Meeting.

- ROYAL INSTITUTION, at 5.—General Monthly Meeting. TUESDAY, MARCH 4.
 ZOOLOGICAL SOCIETY, at 8.30.—On the Classification of Birds: Henry Seebohm.—A Revision of the Genera of Scorpions of the Family Bathida, with Descriptions of some New Souh African Species: R. I. Pocock —On some Galls from Colorado: T. D. A. Cockerell.—Report on the Insect-House for 1889: A. Thomson.
 INSTITUTION OF CIVIL ENGINEERS, at 8.—The Hawksbury Bridge, New South Wales: C. O. Burge.—The Erection of the Dufferin Bridge over the Ganges at Benrees: F. T. G. Walton.—The New Blackfriars Bridge on the London, Chatham, and Dover Railway: G. E. W. Cruttwell. UNIVERSITY COLLEGE BIOLOGICAL SOCIETY, at 5 15.—A Peculiar Ferment in Balan glossus: Dr. Halluburton.—The Weather Plant: Mr. Weiss. ROYAL INSTITUTION, at 3.—The Post-Darwinian Period; Prof. G. J. Romanes, F.R.S.

Romanes, F.R.S.

- WEDNESDAY, MARCH 5. at 8.—Recent Progress in British Watch and Cluck
- WEDNESDAY, MARCH 5. SOCIETY OF ARTS, at 8.—Recent Progress in British Watch and Cl.ck Making : J. Tripplin. ENTOMOLOGICAL SOCIETY, at 7.—New Longicornia from Africa: C. J. Gahan.—Notes on the Lepidoptera of the Region of the Straits of Gib-raltar: J. J. Walker, R N.—Some Water Beetles from Ceylon: Dr. D. Sharp.—The Classification of the Pyralidina of the European Fauna: E. Meyrick.—A New Species of Thymara and other Species allied to Hi-mantopterus fuscinervis, Wesm.: Captain H. J. Elwes.—A Catal gue of the Pryralidæ of Sikkim collected by H. J. Elwes.—A Catal gue of the Pryralidæ of Sikkim collected by H. J. Elwes.—A Catal gue of the Pryralidæ of Sikkim collected by H. J. Elwes.—A Catal gue of the Pryralidæ of Sikkim collected by H. J. Elwes.—A Catal gue of the Pryralidæ of Sikkim collected by H. J. Elwes.—A Catal gue of the Pryralidæ of Sikkim collected by H. J. Elwes.—A Catal gue of the Pryralidæ of the Occurrence of Silver in Volcanuc Dust—namely, in that thrown out in the Eruption of Tunguragua, in the Andes of Ecuador, January 17, 1886: Prof. J. W. Mallet, F.K.S.—On the Tension of Recently-formed Liquid Surfaces: Lord Rayleigh —(1) On the Develop-ment of the Cilhary or Motor Oculi Gangtion; (2) The Cranal Nerves of the Torpedo (Preliminary Note): Prof. J. C. Ewart. LINNEAN SOCIETY, at 8.—On the Production of Seed in some Varieties of the Common Sugar-Cane (Saccharum officinarum); D. Morris.—An Investigation into the True Nature of Callus; Part 1, the Vegetable Marrow, and Ballia callitricha: Spencer Moore. Royal INSTITUTION, at 3.—The Early Developments of the Forms ot Instrumental Music : Frederick Niccks. *FRIDAY*, MARCH 7. Pursucat Society at a coll Barterick Schemeter Prof. S. P.

- FRIDAY, MARCH 7. PHVSICAL SOCIETY, at 5.—On Bertrand's Refractometer: Prof. S. P.

Thompson. GEOLOGISTS'ASSOCIATION, at 8. INSTITUTION OF CIVIL ENGINEERS, at 7.—Telephonic Switching: C. H Wordingham.

ROVAL INSTITUTION, at 9.—Electrical Relations of the Brain and Spinal Cord: Francis Gotch. SATURDAY, MARCH 8.

ROYAL BOTANIC SOCIETY, at 3.45. ROYAL INSTITUTION, at 3.-Electricity and Magnetism: Right Hon Lord Rayleigh, F.R.S.

	PAGE
The New Codes, English and Scotch	385
A Dictionary of Applied Chemistry. By Sir H. E. Roscoe, M.P., F.R.S.	00
Roscoe, M.P., F.R.S.	387
Oates's Ornithology of India. By R. Bowdler	•
Sharpe	388
Sharpe	390
Our Book Shelf:	0,
Wilson : "Geological Mechanism"	390
Gore : "The Scenery of the Heavens"	391
Abercromby : "A Trip through the Eastern Cau-	0,
casus"	391
Letters to the Editor :	3)-
The Royal Society's Catalogue of Scientific Papers :	
a Suggested Subject-Index.—A Cataloguer	391
The Period of the Long Sea-Waves of Krakatão	391
Iames C. McConnel	392
James C. McConnel The Distances of the Stars.—Dr. W. H. S. Monck	392
The Longevity of Textural Elements, particularly in	392
Dentine and Bone.—John Cleland	202
Some Notes on Dr. A. R. Wallace's "Darwinism."	392
	202
T. D. A. Cockerell	393
A Formula in the "Theory of Least Squares."-W.	
J. Loudon	394
Galls.—D. Weiterhan	394
The Cape "Weasel."-E. B. Titchener	394
The Chaffinch.—E. J. Lowe, F.R.S.	394
On the Number of Dust Particles in the Atmo-	
sphere of certain Places in Great Britain and on	
the Continent, with Remarks on the Relation	
between the Amount of Dust and Meteorological	2020-002
Phenomena. By John Aitken, F.R.S.	394
A Uniform System of Russian Transliteration	396
The Botanical Institute and Marine Station at Kiel.	
(Illustrated.)	397
	398
Notes	399
Our Astronomical Column:-	
Objects for the SpectroscopeA. Fowler	402
Note on the Zodiacal Light.—A. Fowler	402
Observations of ζ Ursæ Majoris and β Aurigæ	403
Comet Brooks (d 1889)	403
New Short-Period Variable in Ophiuchus	403
Observations of the Magnitude of Iapetus	403
Geographical Notes	403
	403
Locusts in India Field Experiments on Wheat in Italy. By E. K.	404
Scientific Serials	405
Societies and Academies	405
Diary of Societies	408
Diary of Societies	400