

tually done was proved by the escape of sulphurous vapour from the bolt-holes. When the burrow was afterwards opened, however, no trace of the fumes was left, nor were the animals destroyed. The experiment was recorded as a "guide or warning to others who may be induced to try further experiments with the fumes of sulphur, or with any other vapour." (Carbonic acid gas would not become condensed, and it would be fatal to animal life, but its use would probably be much too expensive). Mr. Abbott read a paper "On the Sun and its Office in the Universe." Some discussion of a conversational character having taken place, Mr. M. Allport begged to call the attention of the meeting to the fish presented by Mr. Wise (presentation No. 8), on account of its high scientific importance, as furnishing a complete answer to the theory raised by Dr. Günther in reference to the salmon first sent to England. The Doctor then assumed that the fish sent was hatched from one of the eggs imported to England in 1866. This assumption was met by the statement that the fry unnaturally detained in fresh water had reached a higher state of development than the smolt sent to England, and as the fish now presented was but just assuming the smolt stage, all the arguments used in reference to the smolts first caught apply with tenfold force to this specimen. It was, moreover, fortunate that they had in the Museum one of the fry hatched from the English eggs received per *Lincolnshire* in 1866, and which died in the spring of 1867. Upon comparing this with the fish now caught, it would be found that they accorded with one another so closely, as to leave little doubt of their identity in species. No report had yet been received from England as to the smolt last sent, though they had heard of its safe arrival. Mr. Allport further observed that Mr. Youl, in writing to Sir Robert Officer, had expressed a wish that the Salmon Commissioners should make it publicly known that after careful examination he entirely concurred with Dr. Günther in the opinion that the specimen first sent to England was a Salmon trout (*Salmo trutta*.)

BERLIN

Royal Prussian Academy of Sciences, June 2, 1870.—Prof. G. Rose communicated a long and elaborate memoir on the connection between the hemihedric crystalline form and thermo-electrical properties in iron-pyrites and cobalt-glanze, with some remarks on the theory of hemihedric forms in general; and Prof. Dove read a paper on the reference of the annual curve of temperature to the conditions upon which it depends.

June 16.—M. Kummer read a paper on the simplest representation of the complex numbers formed from unitary roots, which can be effected by multiplication with unities. Prof. W. Peters read a description of *Propithecus Deckenii*, a new species of Lemuroidea from Madagascar; it is the species which had previously been identified by him with *P. diadema* Bennett.

June 23.—A paper was read on the Morphology of *Chondriopsis cærulescens*, Crouan, and the optical phenomena presented by that Alga, by Dr. Leopold Kny. The author described in some detail the peculiar cell development and mode of ramification of the plant, and noticed more briefly the structure of the reproductive organs. The peculiar colour presented by the plant is produced by the contents of the outermost cortical layer of cells, and is due to the presence in them of certain corpuscles which have the faculty of reflecting blue light. Prof. du Bois Reymond read a supplement to his memoir on the aperiodic movement of muffled magnets.

June 27.—Prof. C. Rammelsberg read some contributions to the knowledge of meteorites. He first communicated some remarks on the analysis of meteorites, relating to a more recent process for the separation of nickel from iron, to the separation and determination of meteoric iron in stony meteorites, and to the analysis of the silicates, and then furnished analyses of meteoric irons, of the pallasite of Brahin, and of the chondrites of Pultusk, Richmond, and Iowa. His analyses of these chondrites and of that of Klein Wenden, lead him to the conclusion that they all contain only two silicates, olivine and broncite, a result which he finds to be confirmed by other analyses, and he affirms, that mesosiderite and chondrite do not differ petrographically but only in structure.

BOOKS RECEIVED

ENGLISH.—The Descent of Man, 2 vols.: C. Darwin (Murray).—The General Structure of the Animal Kingdom, 4th edition (Van Voorst).—A Treatise on Smoky Chimneys: F. Edwards (Longmans).—Mathematical Papers of the late George Green: N. M. Ferrers (Macmillan).—A Synopsis of the Family Unionidae: Isaac Lee (H. C. Lea, Philadelphia).—Thesaurus Syriacus, fasc. ii.

DIARY

THURSDAY, MARCH 2.

ROYAL SOCIETY, at 8.30.—Further Experiments on the Effect of Diet and Exercise on the Elimination of Nitrogen: Dr. Parkes, F.R.S.—Magnetic Observations made during a Voyage from St. Petersburg to the Coasts of the Arctic Sea, in the Summer of 1870: Capt. Belavenetz, I.R.N.
SOCIETY OF ANTIQUARIES, at 8.30.—On Roman Antiquities at Lydney Park: Rev. W. H. Bathurst.
CHEMICAL SOCIETY, at 8.
LINNEAN SOCIETY, at 8.—On the Tamil names of Plants: Rev. S. Mateer.—Contributions towards a knowledge of the *Curculionidae*: H. P. Pascoe.
ROYAL INSTITUTION, at 3.—Davy's Discoveries: Dr. Odling.
LONDON INSTITUTION, 7.30.—On the Colonial Question: Prof. J. E. Thorold Rogers.

FRIDAY, MARCH 3.

ROYAL INSTITUTION, at 9.—Pressure of Fired Gunpowder: Capt. Noble.
GEOLOGISTS' ASSOCIATION, at 8.—On the Range in Time of the Foraminifera: Prof. T. Rupert Jones, F.G.S.—On the English Crags, considered in reference to the Stratigraphical Divisions indicated by their Invertebrate Fauna: Alfred Bell.
ROYAL COLLEGE OF SURGEONS, at 4.—On the Teeth of Mammalia: Prof. Flower.

SATURDAY, MARCH 4.

ROYAL INSTITUTION, at 3.—Socrates: Prof. Jowett.

SUNDAY, MARCH 5.

SUNDAY LECTURE SOCIETY, at 3.30.—Iceland: its Physical Features, Volcanoes, Hot Springs, &c.: Jon A. Hjalatalin.

MONDAY, MARCH 6.

ROYAL INSTITUTION, at 2.—General Monthly Meeting.
ENTOMOLOGICAL SOCIETY, at 8.
ROYAL COLLEGE OF SURGEONS, at 4.—On the Teeth of Mammalia: Prof. Flower.
LONDON INSTITUTION, at 4.—On Astronomy: R. A. Proctor, F.R.A.S.
ANTHROPOLOGICAL INSTITUTE, at 8.—On the Racial Aspects of the Franco-Prussian War: J. W. Jackson.

TUESDAY, MARCH 7.

ROYAL INSTITUTION, at 3.—Nutrition of Animals: Dr. Foster.
ZOOLOGICAL SOCIETY, at 9.—Notes on rare or little-known Animals now or lately living in the Society's Gardens: P. L. Sclater.—List of the Lizards belonging to the family *Scpidae*, with Notes on some of the species: Dr. A. Günther.—On new Insects collected by Dr. John Anderson during the Expedition to Yunnan: F. Moore.—Observations on the Record of Accessions to the Gardens of the Zoological Society: Dr. J. E. Gray.

WEDNESDAY, MARCH 8.

SOCIETY OF ARTS, at 8.—The Cultivation and Uses of Sugar-beet in England: Dr. A. Voelcker.
GEOLOGICAL SOCIETY, at 8.
ROYAL COLLEGE OF SURGEONS, at 4.—On the Teeth of Mammalia: Prof. Flower.
ROYAL MICROSCOPICAL SOCIETY, at 8.
PRESS LITERARY FUND, at 3.—Anniversary Meeting.

THURSDAY, MARCH 9.

ROYAL SOCIETY, at 8.30.
SOCIETY OF ANTIQUARIES, at 8.30.
ROYAL INSTITUTION, at 3.—Davy's Discoveries: Dr. Odling.
LONDON MATHEMATICAL SOCIETY, at 8.—Remarks on the Mathematical Classification of Physical Quantities: Dr. Clark Maxwell, F.R.S.—On Skew Cubics: Prof. H. J. S. Smith, F.R.S.
LONDON INSTITUTION, at 7.30.—On the Colonial Question: Prof. J. E. Thorold Rogers, M.A.

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ERRATUM.—Page 322, second column, line 20, for "western or right hand" read "eastern or left hand."