

observed smoke issuing from the crater, and was told that flames were sometimes visible at night. Fumeroles were seen within the crater by Stefano Pighio in 1582, by Braccini in 1612, by the physicians Magliocco and Nicola de Rubéo, and by Padre Salimbeni, all in 1619. It will also be recalled that the year 1538 is memorable for the Monte Nuovo upheaval, one of the recorded features of which was a violent radial blast, comparable in a small way, no doubt, to the frightfully destructive agency which played such a tragic part in the West Indian catastrophes, still fresh in memory. Such being the condition of things in the sixteenth century, we have every reason to regard Leone as a credible eye-witness of the eruption which he claims to have observed from Nola in 'nostra vero tempestate.'

Finally it should be said that we owe to the well-known editor of the 'Monumenta Neapolitani Ducatus' a valuable list of references to mediæval chronicles in which several early eruptions are mentioned. Capasso's revision of the dates makes some changes necessary in the accepted catalogues. Thus, reckoning the eruption of 685 as the fifth on record in history, the succeeding ones should be referred in order to the following years: 968 or 969, 999, 1007, 1037, 1139, *circa* 1500, 1631. There are no contemporary authorities for the eruptions sometimes quoted for the years 1024 (Capaccio), 1049 (Lyell, Phillips), and 1184 (Mallet).

C. R. EASTMAN.

SCIENTIFIC NOTES AND NEWS.

THE University of Greifswald has, on the occasion of the celebration of its four hundred and fiftieth anniversary, conferred the honorary degree of doctor of philosophy on Professor William M. Davis, of Harvard University.

At the meeting of the British Medical Association, held last week at Toronto, the degree of doctor of laws was conferred by the University of Toronto as follows: Professor Thomas Clifford Allbutt; A. H. Freeland Barbour; Sir Thomas Barlow; Sir James Barr; Sir William H. Broadbent; H. W.

Langley Browne, M.D., chairman of the council of the British Medical Association; George Cooper Franklin, retiring president of the association; Professor William Dobinson Halliburton; Sir Victor Horsley; Dr. Donald McAlister, president of the British Medical Council; William Julius Mickle; M. Louis Lapicque; Professor L. Aschoff, and Dr. W. J. Mayo, M.D., president of the American Medical Association.

DR. H. DAVY, of Exeter, will be president of the next meeting of the British Medical Association to be held in that city.

DR. W. N. SHAW, director of the British Meteorological Office, has been elected an honorary member of the Austrian Society for Meteorology.

THE Technological Institute of Munich has conferred the degree of doctor of technical sciences on Dr. W. H. Perkin, in connection with the recent jubilee of the coal tar color industry.

MR. W. EAGLE CLARKE has been appointed keeper of the natural history collections of the Museum of Science and Art, Edinburgh, in succession to Dr. R. H. Traquair, F.R.S.

PROFESSOR F. CAVARA, of Catania, has been appointed director of the Naples Botanical Garden.

DR. F. W. T. HUNGER, of Utrecht, has been appointed director of the experimental station at Salapig, Java.

PROFESSOR POZZI has been presented with a gold medallion portrait by the sculptor Chaplain and a memorial volume of researches by his former students on the occasion of the twentieth anniversary of his work at the Broca Hospital.

THE Moxon medal of the Royal College of Physicians of London has been awarded to Dr. Jonathan Hutchinson, F.R.S.

WE learn from *Nature* that at the concluding meeting of the International Conference on Hybridization and Plant Breeding the Veitch gold memorial medals were presented to Mr. W. Bateson, F.R.S., the president of the conference, Professor Johannsen, Professor Wittmack and Professor Maurice

de Vilmorin, and silver-gilt Banksian medals to Miss E. R. Saunders, lecturer on botany at Newnham College, and Mr. R. H. Biffen, for eminent services rendered to scientific and practical horticulture. Professor de Vilmorin, as the representative of the Horticultural Society and the Botanical Society of France, invited the society to hold its next conference at Paris.

UNDER the direction of Mr. Whitman Cross, Mr. Albert Johannsen, of the United States Geological Survey, is making a reconnaissance this summer with Mr. Willis T. Lee in the northeastern section of New Mexico.

A RECONNAISSANCE survey of the Paleozoic rocks in Utah is being made this summer by Mr. F. B. Weeks, of the U. S. Geological Survey. This will complete Mr. Weeks's study of the Paleozoic rocks of the state, and will furnish the final data for a paper on the subject.

MR. SAMUEL SANFORD is engaged in an investigation of the underground waters of the coastal plain of Virginia for the United States Geological Survey. The developments in this important region have been very marked since the report of N. H. Darton in 1896 and the demand for information very great, especially in regard to the quality of the water and its availability for boiler and industrial purposes. To supply this complete chemical studies will be undertaken as a part of the work.

DR. LEON J. COLE, of Harvard University, has been appointed chief of the Division of Animal Breeding and Pathology in the Rhode Island Station. J. Frank Morgan, a graduate of St. Lawrence University; H. S. Hammond, of the Agricultural College, at Guelph, Canada, and W. F. Purrington, a graduate of the New Hampshire College of Agriculture and Mechanic Arts, have recently received appointments as assistant chemists at the same station.

DR. CLEMENS SCHLÜTTER, professor of geology and paleontology, at Bonn, has retired from active service.

PROFESSOR R. HEYMONS, professor of zoology in the School of Forestry at Munster, has

been appointed curator in the Zoological Museum at Berlin.

THE Bradshaw lecture will be delivered at the Royal College of Physicians, London, on November 6, by Dr. Sharkey, who will take as his subject 'Rectal Alimentation'; the Fitz-Patrick lectures will be given by Dr. Norman Moore, on November 8 and 13, and will deal with the 'History of the Study of Clinical Medicine in the British Islands'; and the Horace Dobell lecture by Dr. F. W. Andrews, on November 15, will treat of the 'Evolution of the Streptococci.'

MR. E. A. MINCHIN, M.A., the recently-appointed professor of protozoology at London University, will deliver his inaugural lecture on 'The Scope and Problems of Protozoology' on November 15.

THE Berlin correspondent of the *Medical Record* states that the physicians of Berlin are much interested in the monument to be erected in memory of Virchow. The commission has given the first prize to the design of the sculptor Klimsch, which portrays a man fighting against a fabulous monster, while Virchow's portrait appears only in a medallion on the base. The medical societies have protested against this selection, and would prefer a monument showing a full-length figure of the great pathologist. The commission has resolved to reopen the question, but no decisive action has yet been taken.

ALBERT GRANNIS LANE, assistant superintendent of the Chicago city schools, formerly president and a trustee of the National Educational Association, died on August 22 at the age of sixty-five years.

SIR ALEXANDER MONCRIEFF, K.C.B., F.R.S., known for his improvements in the system of mounting heavy ordnance, has died at the age of seventy-seven years.

MR. RICHARD GLASCOTT SYMES, for many years geologist on the Geological Survey of Great Britain, died on July 27, at the age of sixty-six years.

PROFESSOR GEORGE REYET, for the past twenty-five years director of the observatory at Bordeaux, has died at the age of sixty-seven years.

DR. P. HAUPTFLEISCH, docent for botany in the Technological Institute at Stuttgart, has died at the age of forty-three years.

DR. E. A. KEHRER, associate professor of chemistry at the Technical Institute at Stuttgart, has died at the age of fifty-seven years.

THE Civil Service Commission announces an examination on September 26-27, 1906, to fill several vacancies in the position of analytical chemist, qualified in methods for the detection of food adulteration, at \$1,200 per annum each, and one or more vacancies in the position of scientific assistant in plant pathology, at \$1,000 per annum each, in the Department of Agriculture, and similar vacancies as they may occur in that department. Competitors in this examination may, if they desire, take the examination to be held on October 17-18, upon filing new applications in due time, this examination being held in view of the urgent need of eligibles with the qualifications indicated.

MR. ALBERT WILLCOX, an insurance broker, of New York City, has bequeathed \$100,000 to the National Association of the Audubon Societies for the protection of wild birds and animals. Half of the residue of the estate is, at the death of his brother, also to go to the Audubon Society and the other half to the Tuskegee Institute.

As we have already announced, the fifteenth International Congress of Americanists meets at Quebec from the tenth to the fifteenth of September. The preliminary program contains the titles of eighty-one papers that will be presented and arrangements have been made for suitable receptions and excursions. The place of meeting, the arrangements for the entertainment of members and the scientific program promise a congress of unusual interest.

At the annual meeting of the fellows of the Royal Botanic Society held on the sixteenth inst., the old members of the council were re-elected in spite of the opposition to the present administration. The debt of the society is now £34,000. The deficit last year was £975 as compared with £1,237 the preceding year. The chairman announced that the

council now proposed certain additions to the by-laws (1) to the effect that at four meetings in the year fellows might propose resolutions; (2) to enable fellows to vote by proxy; and (3) to give the council the power of recommending such persons as they thought proper to be temporarily members, associates, or otherwise affiliated to the society, and of fixing the conditions of admission, privileges and payments in all such cases, provided that due regard was had to the position, rights and privileges of existing fellows and members.

Nature states that a party of French medical men is about to visit Germany for the purpose of inspecting the medical institutions of the country. Three days will be spent in Berlin, and other cities and towns visited will include Cologne, Frankfort, Leipzig, Munich, Bonn, Heidelberg and Marburg. A committee of entertainment has been formed under the presidency of Professor von Bergmann.

UNIVERSITY AND EDUCATIONAL NEWS.

DR. WILLIAM H. HOBBS, recently professor of mineralogy and petrology at the University of Wisconsin, has been appointed to the chair of geology at the University of Michigan, vacant by the death of Professor Israel C. Russell.

DR. O. W. RICHARDSON, of Trinity College, Cambridge, has been appointed professor of physics in Princeton University.

DR. J. E. WALLACE WALLIN, instructor in philosophy at Princeton, has been appointed professor of psychology and pedagogy in the Pennsylvania Normal School at East Stroudsburg.

MR. E. B. HUTCHINS, JR., has been elected professor of chemistry at Carroll College, where a large science hall has just been erected.

MR. EUGENE F. McCAMPBELL has been elected instructor in bacteriology at the Ohio State University.

PROFESSOR THOINOT has been appointed to the chair of legal medicine at Paris, vacant by the death of M. Bruardel.

DR. ALFRED PHILIPPSOHN, professor of geography at Bern, has been called to Halle.