

(15) The number of "additional subjects" which may be taken to be increased from two to four.

F.—*Training Colleges.*

(16) Day Training Colleges and a third year of training to be recognized. The Universities and local University Colleges to be utilized for the training of teachers, where suitable arrangements can be made.

UNIVERSITY AND EDUCATIONAL INTELLIGENCE.

CAMBRIDGE.—The following appointments of Electors to Professo-rships have been made. Each Board consists of eight members, and it is provided by the Statutes that at least two members shall not be resident in the University or officially connected with it. In certain cases more than two such members have been voluntarily chosen by the Senate.

*Arabic*: Prof. Bensly. *Music*: Sir George Grove; *Chemistry*: Dr. E. Frankland, F.R.S.; *Plumian of Astronomy*: Mr. W. D. Niven; *Anatomy*: Dr. Huxley, F.R.S.; *Botany*: Prof. D. Oliver, F.R.S.; *Woodwardian of Geology*: Dr. A. Geikie, F.R.S.; *Jacksonian of Natural Philosophy*: Dr. Hugo Müller, F.R.S.; *Mineralogy*: Sir W. Warington Smyth, F.R.S.; *Political Economy*: Mr. R. H. Inglis Palgrave, F.R.S.; *Zoology and Comparative Anatomy*: Dr. Huxley, F.R.S.; *Sanskrit*: Prof. Aufrecht and Mr. R. A. Neil; *Cavendish of Physics*: Sir William Thomson, F.R.S.; *Mechanism*: Mr. W. Airy; *Downing of Law*: Mr. Justice Denman; *Downing of Medicine*: Dr. Richard Quain, F.R.S.; *Physiology*: Prof. Burdon Sanderson, F.R.S.; *Pathology*: Dr. J. F. Payne; *Surgery*: Sir James Paget, F.R.S.; *Chinese*: Dr. Peile.

Prof. Robertson Smith being unable on account of the state of his health to lecture this term, Mr. A. A. Bevan, B.A., of Trinity College, has been appointed his deputy.

The Syndicate appointed to consider the probable expense of maintaining and working the great telescope offered to the University by Mr. Newall, report that a capital sum of £2225, and an annual expenditure of £400 will probably be required. They report further that the Sheepshanks Special Fund, founded in 1863 for the benefit of the observatory, will probably be able to furnish a capital sum of £1000, and an annual grant of £100, towards the expenses of the Newall telescope. The remainder, or £1225 at once, and £300 a year, will have to be provided from other sources; but whence is by no means apparent.

SCIENTIFIC SERIALS.

*Revue d'Anthropologie*, troisième série, tome iv., sixième fasc. (Paris, 1889).—Researches on the cephalic index of the Corsican population, by Dr. A. Fallot (of Marseilles). In an earlier number of this review, the author drew attention to the very appreciable alteration which the cephalic index had undergone in recent times among the inhabitants of Marseilles. Thus in one group of living subjects, born at the beginning of the century, he found that 21 per cent. exhibited an index of 84, while in another group, consisting of men of middle age, this number occurred only in the ratio of 7 per cent. This remarkable difference led the author to continue his determinations of the cephalic index among different communities. With this object in view, he last year visited Corsica, and in the present article we have the results of his craniometric determinations in this island, where from its peculiar geographical position and geognostic features, the inhabitants have preserved a permanence of type, and a homogeneity of ethnic characteristics, probably unequalled in any other European nation. Indeed so inconsiderable have been the changes effected in recent times in the Corsican population, that the observations made by Volney, in 1793, on the country and the people, apply almost equally well to their present condition. At the same time so little addition has been made since that period to our previously imperfect knowledge of Corsica, that Dr. Fallot's observations supply a valuable contribution to ethnological inquiry. All his determinations tend to demonstrate the great uniformity of cranial type and characters in the people. Thus while 54 per cent. of the population present a cephalic index varying from 75 to 78,

not more than 13 per cent. gave an index above 80, while in only one out of 200 cases the index amounted to 86, and hence he assumes the mean index to be 76.5. He found that this uniformity was the greatest in the interior of the island, and more especially in the *département* of Corte; while at Bastia, in the extreme north, the cranial characteristics exhibited more variety, and afforded evidence of an admixture with foreign elements, a subbrachycephalic type supplanting the more general Corsican character of dolichocephalism. In the preponderance of this latter type Dr. Fallot thinks we have incontrovertible evidence against the opinion of Lauer, that the Corsicans are of Ligurian descent, and he believes that they may be more correctly characterized as an offshoot from the old Iberian races. The author gives numerous useful tables, and his brief summary of the history of the island is clear and instructive. From his observations on the geological conformation of the island we learn how numerous spurs, thrown off from the central high mountain range, have enclosed and isolated the several valleys, cutting off villages and settlements from their neighbours, and thus exerted so strong an influence upon the character and habits of the inhabitants, that the physical features of the island may be said to supply the key to its history. From the author's observations it may be assumed that in the mountain districts of the interior the genuine Corsican cranial type has been best preserved.—On infibulation, and other mutilations practised among the littoral tribes of the Red Sea, and the Gulf of Aden, by Dr. Jousseume. The author describes at length the methods by which these processes are effected, and considers that whatever may have been their original motive they are in no way at present connected with religious observances, but are simply carried on from generation to generation as survivals of ancient barbarous customs.—On modern crania in Montpellier, by M. de Lapouge. In 1888 the author obtained 150 tolerably perfect skulls, which had been recovered from the soil of a cemetery at Montpellier used for interments from the seventeenth century until it was closed in 1830. An examination of the author's elaborate series of comparative craniometric measurements shows that the mean for the cephalic index of these skulls, viz. 78.3, is the lowest as yet observed in France, while their general cranial characters have less affinity with a French, than a North African type.—Prehistoric Scandinavia, by M. I. Undset. This is a sequel to a paper published in this review in 1887, the author now bringing his survey of the progress of northern palæontological science up to the present time.

THE *American Meteorological Journal* for December contains:—An article by W. M. Davis and C. E. Curry, on Ferrel's convectional theory of tornadoes; his theory, which is remarkably simple, is based on the occurrence of an ascensional movement in the tornado-whirl. The authors state that this fact seems too well established to admit of a doubt, although Faye and others in Europe, and Hazen in the United States, have questioned it. The paper contains graphical illustrations of the instability caused by convection.—Tornado chart of the State of Indiana, by Lieutenant J. P. Finley, compiled from statistics for seventy-one years ending 1888. The average yearly frequency is 4.5 storms. The month of greatest frequency is May.—Theory of storms, based on Redfield's laws, by H. Faye, continued from the November number, and dealing with the mechanics of whirls in flowing water, and with the upper currents of the atmosphere; the conclusion being that cyclones are whirls, originating in the upper regions of the air.—A continuation of the article on the meteorology at the Paris Exhibition, by A. L. Rotch, describing the meteorological instruments in the foreign sections.—The conclusion of Dr. F. Waldo's interesting discussion of wind velocities in the United States, with charts of "isanemonals" for January, July, and the year. The fact that the curves can be drawn with general symmetry shows that there is some uniformity in the exposure of the anemometers for like regions. The author points out that the effect of the Rocky Mountains seems to make itself felt on the winds to a distance of 200 or 300 miles to the eastward.

SOCIETIES AND ACADEMIES.

LONDON.

Royal Society, December 19, 1889.—"Some Observations on the Amount of Luminous and Non-Luminous Radiation emitted by a Gas-Flame." By Sir John Conroy, Bart.