

to put the war in its proper light. On the other hand, though it was known that Germany had long maintained a regular organisation of propagandist schools throughout the world, it was not until July, 1915, that steps were taken by the Government of India to intern or repatriate the enemy aliens in India who were engaged in school work, when such schools were handed over to other agencies.

SOCIETIES AND ACADEMIES.

PARIS.

Academy of Sciences, August 7.—M. Paul Appell in the chair. C. Richet: The monthly variation of natality. For a period of fifty-seven years the maximum number of births is in February or March. For the years 1906–10 the maximum in these two months is shown in all countries in the Northern Hemisphere, and figures for eleven countries are cited. In the Southern Hemisphere the monthly maximum is in August–October, or a period six months from the maximum in the Northern Hemisphere. The maxima are in the same months both for legitimate and illegitimate births, for rural and urban populations, for the poor and rich; but a relation can be traced between the latitude and the date of the monthly maximum.—C. Camichel: Hammering in water mains: the examination of the state of a main. P. Choffat: The volcanic intrusive rocks of the region situated to the north of the Tagus.—E. Belot: Experimental volcanoes and the laws of volcanic phenomena. The experimental arrangement described in an earlier communication can be modified by the introduction of a layer impermeable to water and steam (slate) above the source of heat.—R. Souèges: The first divisions of the egg, and the origin of the hypophysis in *Capsella bursa-pastoris*.

BOOKS RECEIVED.

Théorie Générale des Nombres: Définitions fondamentales. By E. Dumont. Pp. 92. (Paris: Gauthier-Villars et Cie.) 2 francs.

Petit Atlas Céleste. By G. Bigourdan. Pp. 57. (Paris: Gauthier-Villars et Cie.) 2 francs 75 centimes.

Le Climat de la France: Température, Pression, Vents. By G. Bigourdan. Pp. 135. (Paris: Gauthier-Villars et Cie.) 4 francs.

Mitteilungen der Naturforschenden Gesellschaft in Bern. 1913. Pp. xxxv+266. 1914. Pp. xxv+324. 1915. Pp. 1+315. (Bern: K. J. Wyss.)

Centenaire de la Société Helvétique des Sciences Naturelles. Band 1. Pp. vi+316. (Basel: Georg and Co.)

Néue Denkschriften der Schweizerischen Naturforschenden Gesellschaft. Band li. (Basel: Georg and Co.)

Actes de la Société Helvétique des Sciences Naturelles, 97me Session. 2 Pts. (Aarau: H. R. Sauerländer et Cie.)

Verhandlungen der Schweizerischen Naturforschenden Gesellschaft, 1914. 2 Pts. (Aarau: H. R. Sauerländer et Cie.)

The Sea-Trout. By H. Lamond. Pp. xi+219. (London: Sherratt and Hughes.) 21s. net.

Observations made at the Royal Magnetical and Meteorological Observatory at Batavia. Vol. xxxv. (1912.) Pp. xxvi+96. Observations made at Secondary Stations in Netherlands East-India. Vol. iii.

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(1913.) Pp. ix+119. (Batavia: Government Printing Office.)

Results of Registering-Balloon Ascents at Batavia. By Dr. W. van Bemmelen. Pp. lvii+109. (Batavia: Javasche Bockhandel en Drukkerij.)

Regenwaarnemingen in Nederlandsch-Indië. Zes en Dertigste Jaargang, 1914. Deel ii. Uitkomsten. Pp. ix+230. (Batavia: Landsdruckkerij.)

Oceanographische Waarnemingen in den Indischen Oceaan, Sept., Oct., Nov. (1856–1914). Tabellen: Observations Océnographiques et Météorologiques dans l'Océan Indien. Pp. xi+240; Kaarten 25. (Utrecht: Versluys and Scherjon.) Text and atlas, 6.50 florins.

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