It may be pertinent to the subject of this paper to remark on the general appearance of the region around Hankow. A vast alluvial plain extends to the horizon in all directions; whilst dotted over its surface are several shallow lakes, which are lost in the control flood of motion and black of the control flood of the in the general flood of waters when the Yang-tse overflows its banks in the summer months. Rising abruptly out of this alluvial formation are a few isolated groups of low hills, which in the time of flood stand out like islands from the surrounding waste of waters.

It would be interesting to asertain whether the banks of the Yang tse possess this lamination whenever the river winds its way through an alluvial plain. I noticed the same appearance in the low banks of the estuary near the village of Wusung; the horizontal layers varying in this instance from one-tenth to onefourteenth of an inch in thickness. Shells of both fresh-water and salt-water genera—"Paludina" and "Mactra"—were embedded in the bank. H. B. GUPPY

An Experiment on Inherited Memory

WHEN I was a boy I had an electrical machine and Leyden jar; there was also a dog in the family. As a matter of course I "electrified" the dog, and ever afterwards during the remainder of his natural life he ran away in extreme terror when a

bottle was presented to him.

The recollection of this has recently suggested an experiment that may be made by some of the readers of NATURE. means of a small Leyden jar moderately charged startle both the father and the mother of an intended forthco ning generation of puppies. When these are full grown and away from their parents observe whether they are at all disturbed by the sight of a bottle or a Leyden jar, care being taken that the bottle is never shown to the parents in the presence of the offspring.

A single experiment will not be sufficient. It should be tried

by several; for which reason I suggest it here. by several; for which reason I suggest it here. There is no more cruelty involved than in an ordinary practical joke. It is not the pain of the shock, but its startling mystery that frightens the animal, especially if the shock is given by placing the jar on a piece of tinfoil or sheet metal, and allowing the dog spontaneously to investigate by smelling the knob of the jar while his fore-feet are in communication with the outer coating. Under ordinary circumstances the dog obtains through his nose much information concerning the properties of things before he actually touches them, but in this case his whole life experience is contradicted by the mysterious, inodorous, diabolical vitality of the vitreous fiend. A bottle thenceforth makes upon the intellect of the dog a similar impression to that which a sheeted broomstick in a churchyard makes upon the similar intellect of a W. MATTIEU WILLIAMS superstitious rustic.

Stonebridge Park, Willesden

Meteors

THREE very bright meteors were observed here during the month of December, 1880, and are, I think, worthy of record.

1. December 2, 1h. 14m. 50s. a.m. A meteor brighter than Jupiter descended towards the west point of the horizon, passing about 1° N. of Saturn, and somewhat farther from Jupiter, and in a line therefore nearly parallel to that joining those two planets. The train was visible about three seconds.

2. December 8, 10h. 55m. 30s. p.m. A meteor as bright as Jupiter descended towards the north point of the horizon, about 1° below η Ursæ Majoris, its path being inclined at an angle of about 35° to the horizon. The train was brilliant, but vanished

speedily.

3. December 24, 10h. 4m. p.m. A very bright meteor, seen through (or below) the clouds in the south-south-east, shot down towards the south-south-west point of the horizon, at an angle of about 30°. No stars were visible in that part of the heavens at the time. J. PARNELL

Upper Clapton, March 17

Classification of the Indo-Chinese and Oceanic Races

In your issue of December 20 (p. 199), just to hand (February 12), I notice a contribution by Mr. A. H. Keane on the classification of the Indo-Chinese and Oceanic races.

As the Orang Semang of the Malay Peninsula is only just referred to, I conclude that the author has not seen Maclay's

papers on the wild tribes of the Malayan Peninsula in the second number of the Journal of the Straits Branch of the Royal Asiatic Society and a memoir by the same writer in the Journal of Eastern Asia, of which unfortunately only one number appeared. On the Jakuns, Maclay, who has probably seen more of their inner life and habits than any other ethnologist, writes as follows of the Semang and Lakai tribes:—"Logan" (Fournal of the Indian Archipelago, vol. vii. p. 31, 32), "though differing from some others, says that the Orang Semang are certainly Negritos, but he calls them a mixed race. According to my

experience I must declare this also to be incorrect.

"From my own experience and observations I have come to the conclusion that the *Orang Lakai* and the *Orang Semang* are tribes of the same stock, that further, in their physical habitus and in respect of language they are closely connected with each other, and represent a pure unmixed branch of the Melanesian race; anthropologically therefore they absolutely differ from the The Melanesian tribes of the Malay Peninsula, chiefly because of the form of their skull, which has a tendency to be brachycephalic, approach the Negritos of the Philippines, and, like the latter, they do not differ very widely from the Papuan tribes of New Guinea."

In the fifth number of the Journal of the Straits Branch of the R.A.S., Mr. Swettenham, the Assistant Colonial Secretary for the Native States S.S., thus describes the Semangs of

"These people are short in stature, dark in colour, and their hair is close and woolly like that of negroes, with this difference, that all the men wear four or five short tufts or corkscrews

of hair growing on the back of their heads, called jamul."

During my botanical excursion through Perak in 1877 I had two Semangs as guides, answering to Mr. Swettenham's

description.

The Straits Branch of the R.A.S. is as yet in its infancy, having been established only in 1877, and its Journal has probably not yet secured a very wide circulation, although the five numbers that have been published contain probably more authentic information about the Malayan Peninsula than can be found elsewhere.

The characters Mr. Keane has employed to indicate the word "papûwah" are certainly not Malayan; at any rate it would be a matter of impossibility to secure the services of a Malay in Singapore who would be capable of deciphering them. The word, which is a corruption of the Malayan or Javanese adjec-

tive puwah-puwah, is usually spelt thus— 8

Writing about New Guinea, Crawfurd ("A Descriptive Dictionary of the Indian Islands," p. 300) thus expresses himself about the word Papua:—"Some recent geographers have thought proper to give the great island the name of Papua, but an innovation which is correct neither in sound, sense nor orthography seems to possess no advantage over one which it has borne now for nearly three centuries and a half."

It may not be out of place here to remark that Messrs. Trübner and Co. are the London agents of the Straits R.A.S. Singapore S.S., February 12 H. J. MURTON

Fascination

In the interior of the province Valdivia, South Chili, a species of wood-snipe (Paipayen inc.) is often caught by the natives in the following manner:—When the bird flies into one of the low bushes, which in spots of about three to six metres diameter are found frequently in the wood-meadows there, two men on horseback go round it in the same direction, swinging their lazos over the bush. After ten or more rounds one man slips down from his horse, whilst the other continues, leading his companion's horse behind. Carefully then the first man creeps on to the point, where the paipayen is sitting nearly motionless or stupefied with the rider's circular movements, and kills it by a quick blow of a

When I first was told so I would not believe it; but in 1853 or 1854 I took part myself in this kind of capture in the hacienda San Juan, in Valdivia, belonging to my chief, Dr. Philippi, now professor in the University and director of the museum in Santiago. I had left the house without gun, accompanied by a native servant, when, in a part of the wood called Quemas, I observed a paipayen falling into a dense but low bush of the