

fatal among the blacks as among the whites; while diphtheria, singularly, was three times as fatal to the whites as to the blacks.

—The New York academy of sciences announces a lecture, free to the public, at the library building of Columbia college, on March 8, by Prof. George F. Barker, on 'Radiant matter.'

LETTERS TO THE EDITOR.

**Correspondents are requested to be as brief as possible. The writer's name is in all cases required as proof of good faith.*

International geological congress at Berlin.

I send you the following from a paper on the 'Third session of the International geological congress' (*Journ. math. phys. nat. sc.*, Lisbon), sent me by the author, Mr. Paul Choffat, one of the most important and independent members of the late congress. His strictures are only too just, and his criticisms are well worthy of attention.

After briefly sketching the incidents connected with the origin and the assembling of this congress, already familiar, M. Choffat remarks, "A goodly number of the 255 persons, representing 17 countries, came to make a scientific-artistic visit to Berlin, or to make numerous acquaintances among their *confreres*. These must have been completely satisfied; but it is otherwise with those who came to hear treated the subjects which formed the end of the congress. These, I fancy, will unanimously agree that this end was a little neglected." He reminds his readers how important it is, and how much time it saves, to discuss questions among representatives of different countries where the answer comes at once, instead of waiting for months, or even years; and he complains that half of the afternoon sessions were devoted to scientific communications on subjects not particularly interesting to the congress, and which will be more profitable to those who read than to those who heard them. "Granting that there was an average of an hour and a half to each *seance*, in the four consecrated to debate there was a total of six hours." He complains that the report of the sessions at Zurich and Poix simply stated that a number of answers had been received, both from the national committees and from men of science acting spontaneously, but that the nature of these answers and the names of the *savants* were not given. In answer to the reproach of the international committees' report, that many national committees had not furnished the material that was expected of them, he says that the reason of this is plain, and unfortunately exists yet: it is, that the limits of the divisions have not been fixed; and, after taking the trouble to send a map made on this or that division, one is in danger of receiving it back again with the request to make another copy. In the last four *seances*, which ought to have been devoted to the discussion of questions of nomenclature, only the point of view of the map was considered. This ought to furnish those who look upon the map as simply a first edition, to serve as a basis for the discussions of future congresses, food for reflection. He thinks that the first mistake was to commence the publication of a map without settling the principles on which it should be based. He gives the following summary of the constitution of the three congresses thus far held: Paris, 194 Frenchmen and 110 foreigners, representing 20 countries; Bologna, 149 Italians and 75 foreigners,

from 16 countries; Berlin, 163 Germans and 92 foreigners, representing 17 countries. "What geologist would sacrifice his convictions to such a heterogeneous assemblage?" He thinks that not only ought the number of those voting to be much reduced, but they should not vote by countries. Instead of this, he proposes that they should vote by geological basins, and that the voters should therefore be different for every geological question raised. He concedes that it would be very difficult, if not impossible, to create such a bureau or bureaus; but he thinks that some approach to it might be made, even if voting was not permitted, but the subject was elucidated by the longest and freest discussion of each subject possible. Finally, he thinks that a great centre ought not to be chosen for the place of meeting of the congress, as the distractions are too great, and therefore he is in favor of Professor Hughes's proposition (which, however, was voted down) to hold the next session in Cambridge instead of London. M. Choffat concludes this somewhat dissatisfied commentary on the congress by acknowledging, that, "in spite of all the weak points of the three sessions of the congress, they have done much for the science of geology directly and indirectly;" and as an example of the latter influence he points to the splendid map of France, on a scale of 1:500,000, undertaken by geologists who have not any official mandate, and yet have not shrunk from the task of its publication.

Permit me to replace by my full name the first two letters of it, signed to the translation of Stelzner's letter in your issue of Jan. 22.

PERSIFOR FRAZER.

Philadelphia, Feb. 3.

Cliff-picture in Colorado.

Professor Tillman's note on a cliff-picture in Colorado (*Science*, vii. p. 80) leads me to send this account of the same object from notes made on the spot in August, 1871, and published in *Old and new*, a Boston magazine, since discontinued, in December of that year:—

The Bear Rock is a comparatively smooth face of a sandstone bluff that extends about sixty feet above the water, from which it is distant a hundred or more yards. Upon the exposed surface of the rock, about ten feet from the bottom of the cliff, is an excellent life-size representation, in profile, of a three-year-old cinnamon bear. The figure is dark brown, approaching black, being darker on the anterior half. The outline is distinct and perfect, unless exception may be taken to a slight blurring at the bottom of the hind-feet and a somewhat pronounced excess of the claws of the fore-feet. From the tail to the nose the length is about six feet, and the height at the shoulders is about three and a half feet. These are merely approximate dimensions; the writer having no facilities for exact measurement at the time of his inspection, Aug. 8, 1871. The legs are all visible, and the head points straight to the front, as if just about to take, or just having taken, a step. The fore feet are on a slightly higher plane than the hind ones, as if on rising ground. The expression is one of surprise and alarm: the head is thrust forward and slightly upward, the ears are sharply cocked forward as if on the alert, and the whole attitude displays the utmost fidelity to that of a bear in some excitement and apprehension. There is no room for a moment's doubt as to the animal, or the state of mind in which