

some 7,000,000 clam-shells are in the heap. About 300 articles in bone and stone were taken out of the trenches.

The harpoons collected by the expedition number some 40 or more and are interesting in that they present several types of hafting and barbing. Sections of the shells (in situ) were removed and shipped to Andover in order that a cross section may be exhibited. This will give visitors and students a better idea of the shell-heaps than the usual exhibits of articles removed from such places.

The expedition will end its labors about September 15. Dr. Charles Peabody directed the work, with W. K. Moorehead as curator in charge through the season. Francis Manning, of Harvard, was assistant and Ernest Sugden surveyor. The party numbered twelve or fourteen persons and the work done was extensive.

BONAPARTE RESEARCH FUND GRANTS¹

THE committee of the Paris Academy of Sciences appointed to consider the distribution of the Bonaparte research fund has made the following recommendations for the year 1913: H. Caillol, 3,000 francs, for the completion of his work entitled "Catalogue des coléoptères de Provence"; A. Colson, 2,000 francs, to enable him to continue his experimental work in physical chemistry; E. Coquidé, 2,000 francs, to assist him in carrying out his study of the turf lands of the north of France from the agricultural point of view; C. Schlegel, 2,000 francs, to enable him to continue his researches on Crustacean development; Jules Welsch, 2,000 francs to assist him in his geological exploration of the coast lines of France and Great Britain, and to extend them to Belgium and Scandinavia; MM. Pitard and Pallary, 6,000 francs, equally divided, for their scientific expedition in Morocco, organized by the Société de Géographie; Louis Roule, 2,000 francs, for the continuation and extension of his researches on the morphology and biology of the salmon in France; M. Pougnet, 2,000 francs, to enable him to continue his researches on the chemical and biological effects

of the ultra-violet rays, and for the construction of a quartz apparatus to be used for studying the action of ultra-violet light upon gaseous bodies; M. Dauzère, 2,000 francs, for his work on the cellular vortices of Bénard; M. Gard, 2,000 francs, for the publication of a work and atlas dealing with the material left by the late M. Bornet; M. Chevalier, 4,000 francs, to meet the expenses necessitated by the classification of the botanical material collected in the course of his travels in western and equatorial Africa, and the publication of memoirs on the flora of these regions; Paul Becquerel, 2,000 francs, for the continuation of his physiological researches relating to the influence of radioactive substances on the nutrition, reproduction and variation of some plant species; Le Morvan, 4,000 francs, for the completion of his photographic atlas of the moon; M. Pellegrin, 2,000 francs, to aid him in the pursuit of his researches and to publish his work on African fishes, more particularly those of the French colonies; M. Rengade, 3,000 francs, for his proposed systematic examination of mineral waters for the presence and distribution of the rare alkaline metals; M. Alluand, 3,000 francs, for facilitating the study and publication of documents collected by M. Jeannel and himself on the alpine flora and fauna of the high mountainous regions of eastern Africa; M. Lormand, 2,000 francs, for the purchase of a sufficient quantity of radium bromide to undertake methodical researches on the action of radioactivity on the development of plants; A. Labbé, 2,000 francs, for the study of the modifications presented by various animals passing from fresh to salt water or the reverse; de Gironcourt, 3,000 francs, for the publication of the results of his scientific expeditions in Morocco and western Africa; M. Legendre, 3,000 francs, to assist him in the publication of the maps and documents dealing with his travels in China; H. Abraham, 2,000 francs, for the determination, with Commandant Ferrie and M. A. Dufour, of the velocity of propagation of the Hertzian waves between Paris and Toulon.

¹ From *Nature*.