Progress in Science. Modelling African Mammals

THE Museum of Natural History, New York, has just commenced active work in the preparation of a very extensive and represen-

stive collection of the great manunals of Aftica. This noteworthy and comprehen-nive exhibit, will afford when completed, in the near future, one of the most im-pressive and instructive panoramas of the manual and bird fauna of the Dark Continent to be seen. The new plastic handkeraft to be employed in modelling and sculuturing the aximal forma is often handkraft to be employed in modelling end sculpturing the animal forms in clay is well nigh revolutionary in its tech-nique, and the artistic and life-like re-sults, the absolute permanence, produced by plastic methods cannot be approached or equalled by mechanical taxidermy. All fur-sighted naturalists agree that at the present rate of slaughter, the African erms will be killed of more availy than game will be killed off more rapidly than it breeds. The commercial and resident game with desine commercial and resident hunters, and not the gentleman sports-man and the limited scientific collectors, ere the real exterminators. Except in the great game preserves, in the course of a half a dozen decades, more or less, it is thought that the big game of Brit-ish East Africa is foredoomed to disap-pear, the largest species first. A fea-ture of the forthcoming installation is that many of the large, showy animals and birds will be represented in a ser-ies of picturesque family and hubitat groups, arranged in characteristic atti-tudes. One of the pictures shows the manner of fitting and trying on the skin, which is adjusted as sough as a give over the sculptured form of the zebra manikin. manikia

manikin. One of the most historic and command-ing of African mammals just mounted is "Caliph," the hippopotamus, which for thirty years was the leading centre of attraction in the Central Park menageric. attraction in the Central Park menagerie. This great beast was the largest and most colebrated hippo in the world, the veritable Goliath of his race, being twelve fect long, fourteen fect in circum-ference, and weighing four tons when alive. In his special hunt for these crea-tures on Lake Naivasha, Britiah East Africa, ex-President Rooserelt is report-ed not to have secured any specimen ap-proaching the extraordinary size of "Cal-iph." Owing to the great bulk of the hippo and the peculiar difference of tex-ture of the skin of a water-living animal from the land-living types, it required a more careful and different scheme in the manipulation and final fitting on and admanipulation and final fitting on and ad-justment of the skin. The working of the huge skin into the numerous deep folds and wrinkles, especially around tha

massive head, neck, and legs, which are all marvellously brought out on the nani-kin, was a most difficult and painstaking task. The great skin weighed twelve hundred pounds when first removed from the body, and in some parts was six to eight inches thick. The skin was shaved down to only sixty-eight pounds for final use. During the first stages of the building up of the animal's form, the interior resembled a section of an under-ground tunnel or "sub-way," as six work-men with electric are lights could move about with ease in the spacious interior of the great hippo's body. The accom-panying illustration shows the giant form with a group of children to show assive head, neck, and legs, which are panying illustration shows the giant form with a group of children to show the comparative size.

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Novel American Clock.

Novel American Clock. According to the "Buffalo Express" of fuller the task of making a radical charage in clockmaking—the first depar-ture, he says, in 300 years. Samuel P, thrasher, of Hartford, Connecticut, has two of his clocks on view in the city—one in the rooms of the Chamber of Com-merce and Manufacturers' Club, in the clock showing the secret of his device, practically a clock without wheels. The printed the world over. Instead of read-printed of the New Industries Com-merce and Manufacturers' Club to his invention for the home of the inventor in Con-merce of the Chamber of Commerce and Manufacturers' Club to his invention of the stention of the New Industries Com-Manufacturers' Club to his invention of the the home of the inventor in Con-merce and Manufacturers' Club to his invention they were so favourably impressed that and provide the information that was desir-her of the lows not we she pointed in the point of the new clock at the requestion point of view is somewhat radical in its point of view is somewhat radical i According to the "Buffalo Express" of

the arc of vibration of the pendulum ba-comes a minimum. The energy for ope-rating the clock is supplied in the form of an electric current; the 'strength of the same can in no possible manner affect the accuracy of the clock. The mecha-nism of the clock is very ingenious, though extremely simple."

eare should be taken that it is not made of stale beef. Mutton seems to be absolutely safe. No case of poisoning has been traced to it. So are all kinds of fowl, except cold duck and cold goose.

Among fish, mackerel has the worst re-putation. It decays very rapidly, and



TRYING AND FITTING ON THE SKIN OF A BRITISH EAST AFRICA ZEBRA ON THE MANIKIN.

Ptomaine Poisoning.

Ptemaine Poisoning. The remarkable outbreak of ptomaine poisoning (says an English exchange, though the hints come in "pat" enough after the Onehunga case) should warn people to be very careful about food at this season of the year. Meat end fish may be apparently quite sound, while they are really poisonous. Sometimes they are in this state before they are killed, and the only precaution possible in these circumstances is to use sparingly while the warm weather lasts those kinds of food which are most likely to be poisonous.

to be poisonous. The worst are sausages, pork pies, cold pork and cold ham eaten several days

pork and cold ham eaten several days after being cooked. Veal has also a bad record. Potted meats and some kind of tinned tmeats, such as brawn, are more or less dangerous in hot weather. And even beef has poisoned a good many people. Especially in the case of corned beef,

should be eaten only when quite fresh. All surface fish have this dravback, in-cluding herrings, mullet, sprats, etc. The deep sea fish are the safest--name-ly, soles, cod, turbot, halibut, skate, etc. Mussels are especially dangerous. Over-ripe cheese and ite eream sold in the street have many cases of poisoning to answer for. By avoiding the frequent use of the foregoing and taking care that all food is stored in a clean, cool, well-ventilated place, one can almost certainly secure oneself against the danger of ptomain¢ poisoning. poisoning.



Combined Aeroplane and Dirigible Balloon.

The interesting photograph repro-duced herewith shows the latest The interesting photograph repro-duced herewith shows the latest balloon and aeroplane combina-tion which has been brought out abroad. The aeroplane in this instances consists of two short biplanes arranged in tandem, with the motor placed just at the rear of the forward biplane and the aviator located in front of the rear biplane above the accompany. Bud at the rear of the lorward biplane and the aviator located in front of the rear biplane. Above the aeroplancs, and rigidly attached to their framework, is a small cigar-shaped gas bag, which is intended to produce a partial lift of the entire apparatus, thus causing it to rise easily in the air with a very short-run over the ground. This machine, which is the invention of M. Cesar, is fitted with a 50 horse-power 4 cylinder Prissi and Berthaud motor. One of its quite novel features is the use of balanc-ing planes in front of the foremost of the main planes, not only for side equili-brium, but also for steering the machine up and down. These two planes are worked together as a horizontal ruddef when it is desired to rise or descend. Soveral more or less successful trials of the machine have been made-



THE MOUNTED "CALIPH," THE WORLD'S GREATEST HIPPOPOTAMUS, WHO WAS 12 FEET LONG AND [] . WEIGHED FOUR TONS WHEN ALIVE.