In the fall of 1902, the late Dr. Cyril G. Hopkins, then head of the agronomy department at the University, went into a field of Leaming corn. He selected the ears growing highest on the stalks and the ears growing lowest, and kept them for seed.

The following spring these ears were planted in separate plots, which were called the low-ear and the high-ear plots. Observations made in the plots that same fall showed that the selection was already yielding results. The ears in the high-ear plots averaged 56.4 inches from the ground and in the low-ear plot the ears averaged 42.8 inches from the ground.

Year after year this work was continued, the highest growing ears being saved from the high-ear plot and the lowest growing ears from the low-ear plot and planted. Six years after the ex-

periment began there was a difference of 34.2 inches in the average height of ears between these plots and an average difference of 34.7 inches in the height of the respective corn plants.

After a quarter-century of this continuous selection, measurements showed the striking differences that had taken place. Strains of corn so unlike in their appearance had been developed that it seemed almost unbelievable they could have had a common origin. The average height of the ears in the low-ear plot was only 8.1 inches, while the ears in the high-ear plot averaged 126.5 inches from the ground.

The studies have also brought out the fact that the low-ear strain became much earlier in maturity than the high-ear strain, and also exceeded the high-ear strain in yields per acre.

Science News Letter, July 6, 1935

GENERAL SCIENCE

Physician Stops Human Heart And Starts It Again at Will

ENTER of interest in the medical exhibit at the summer meeting of the American Association for the Advancement of Science was a demonstration of the causes and prevention of heart disease, by Dr. M. H. Nathanson of Minneapolis. The physician has found a number of middle-aged people whose hearts he can stop at will, by pressure on a certain nerve in the center of the throat, and then start again with adrenalin and related drugs.

Dr. Nathanson uses this procedure in critical tests of relative values of various heart medicines, as well as for the scientific study of the two principal causes of "heart failure," cardiac standstill and ventricular fibrillation.

Another medical exhibit showed the usefulness of a preparation known as thorium dioxide sol in the more accurate X-ray diagnosis of cancers, tumors and other malignant conditions of the internal organs. This substance shows a tendency to concentrate in such sick tissues, so that they cast denser shadows on photographic plates when X-rays are turned on the suspected body regions.

Ancient Americans

An exhibit attracting much interest was one bearing on the still-vexing riddle of ancient man in America, arranged by Prof. A. E. Jenks of the University

of Minnesota. Outstanding in this display was the skeleton of a human being found in that state, associated with stone dart points of the Yuma and Folsom types, closely resembling similar weapons that have been appearing in increasing numbers in apparently quite ancient deposits. Some of them, found in the southwest, have been mixed with the bones of extinct species of bisons. Other flint points of the same type, not associated with human remains, have also been discovered in Minnesota.

Even older than the "Brown's Valley" skeleton found with these dart points is a famous skeleton, known as "Minnesota Man," discovered by Prof. Jenks some time ago. This was on display, together with the implements and ornaments associated with it.

Was prehistoric man in America a hunter of mastodons and mammoths, as ancient European man was?

This question, to which science as yet has no positive answer, is raised by a group of ivory objects collected in the upper Mississippi River Valley displayed by Dr. Jenks.

The collection is not large; two ornamented armbands, much broken; a three-cornered scraper with sawlike teeth on one side accurately carved in imitation of bear's teeth; and a tubular pipe, shaped like half of an enormously thick cigar,

constitute the whole of it. Part of the objects were found buried below ground level, under an Indian mound that had nothing in it.

They are all made of genuine elephant ivory. The workmanship is clean-cut and symmetrical, and the ornamentation, though simple, is competently applied. But whether the long-dead hunters slew the beasts and carved their ivory fresh, or whether they merely found it, or dug it up as fossil ivory, as men still do in Alaska and Siberia, there is at present no way of knowing.

Science News Letter, July 6, 1935

ANTHROPOLOGY

Chinese Conflict Involves Region of Peking Man

A SIATIC man's most ancient home lies in the section of China on which Japan has fixed a determined eye. In this neighborhood some of China's greatest archaeological discoveries have been coming to light.

Bleak limestone cliffs in this region have revealed Peking Man, China's oldest inhabitant and one of the world's earliest cave dwellers. Located within forty miles of Peiping, a cave at Chou Kou Tien has recently become one of the famous and significant places of the earth, for the early history of man.

Since the first discovery that China was inhabited far back in the Old Stone Age, much has been learned about the life and times of Peking Man. Excavations of the cave by the late Dr. Davidson Black, Canadian scientist, and by Chinese scientists have shown that Peking Man hunted horses, deer, elephants and other wild animals of the early part of the Old Stone Age. Peking Man made a variety of stone tools and he knew how to build fires.

If China's earliest inhabitant represented a branch line of the ugly Neandertal race which spread over Europe and the Near East in the middle of the Old Stone Age, some 60,000 years ago, he was a remarkably early appearance of that breed. The cave at Chou Kou Tien has added many new facts to the knowledge of man's early attempts to possess the earth.

Excavations at the cave continue to yield information. A discovery last year showed that the cave was inhabited successively by baboons, Peking Man, and early Modern Man, who lived almost as simply as old Peking Man himself. The series of cave tenants was pronounced a "coincidence" by Dr. Black.

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