SCIENCE WRITTEN IN POPULAR TERMS

Report of Smithsonian Institution Tells of Recent Discoveries in Most Interesting Style,

WASHINGTON, Sept. 26.-The Smithissued its sixty-ninth annual report, dealing with the various activities of the institution and its branches, and including thirty-two timely articles on recent advances and developments in astronomy, reology, mathematics, mechanics, avia-

These articles are either written esfrom all over the world, which are not the press. readily obtainable by the public. The whole report comprises a volume of over whole report comprises a volume of over 700 pages, with 155 plates and many other To Confer Fourth illustrations, but the individual articles are lasued in separate form for distribution to those interested in particular subjects treated.

Nature of Latent Life.

One of the most fascinating articles in this report is written by a French the nature and relations of latent life, rick McGovern, Cheyenne; J. H. Tihen, life everywhere that germs exist, and master of the Knights of Columbus breathe, which is free from them. The spores of fungi, bacteria, algae, mosses and of ferns, the myriads of grains of will consist of Prof. C. F. Crowley, John artisca and nematodes, called reviviscents, will be master of ceremonies.

To Leeuwenhock (1701), the founder of micrography, we owe the first observations on reviviscent anticuls, the artisca GERMANS PLAN TO OPEN or water bears, and the rotifiers of the roofs and gutters. He observed with great astonishment that these little beings may remain dried up for five months (Correspondence of the Associated Press.) amid moss and dust without showing the slightest trace of life, and, when moist- a month after the occupation of Warsaw ened, resume their vital functions. Baker by the Germans, plans have been all but experimenting with the nematodes, whose completed for the creation of a Polish life cycle is only ten months, succeeded university, designed to attract the young in bringing them to life twenty-eight Poles who heretofore have always sought years after the desication, proving that foreign institutions of learning because their life had been greatly prolonged they would not or could not attend the by this procedure; Spaliangani brought old Russian university here. rotifiers to life by placing them in water, after they had been dried and preserved for three years; another scientist experimented with rats' talls and succeeded in grafting them successfully after they had been dried eight days, and heated two hours at a temperature of 29 degrees educational institutions up to the univer-centigrade. The author's work has been sity to open on scheduls time. applied mostly to seeds, some of which he brought to life after twenty-eight to cighty-seven years had elapsed; he employed great heat and cold, and expertmented with dry and wet seeds, seeds in a vacuum and seeds submerged in liquids, and on the whole evolved much interesting information concerning this subject, dealing literally with life and

Industrial Chemistry.

Some aspects of industrial chemistry been defined as "the chemistry of dol- In the revision of 1884, the suppression of lars and cents," although it possesses far- life senators by extinction and the transwoven with the whole fabric of modern vivor of the life senators is Monsieur civilization. Reviewing the early history of applied chemistry, beginning a lttle February 28, 1884, only a few months beover a hundred years ago, the author shows the development of this branch of science and the many phases of manufacture into which it enters.

Prof. Felix V. -Luschan of the University of Berlin, contributes an article on the early inhabitants of western Asia, which covers divers races found in that part of the world, and gives much ethnological data thereon. Standing on the 'New Bridge' in Constantinople, the author states that he has heard over twenty different languages spoken, and seen as many different types. He describes some of the apparent foreign elements, and then takes up the remaining tribes and groups encountered in an anthropological study of western Asia, a study pursued by the writer for thirty

Excavations in Egypt. Recent excavations at the ancient Egyptian city "About," called by the Greeks Abydos, are described by Edouard Naville. Abydes was primarily a place for the worship of Osiris, the most human god of the Egyptian pantheon, who was out into pieces by his rival, Set, or Typhon, but brought back to life by his son, Horus, who reconstructed his body. Here was located his tomb, although we do not know whether it consained the god's body or just his head, as the Greek writers say. It was a noted burying ground from the Neolithic age to the Roman empire, and all about are cemeteries filled with dead from the intervening epochs. Remains of temples are nearby, that of Seti I., father of Rameses II., being almost in its entirety. Between a doorway with enormous lintels and the temple of Seti I., the excavators unearthed a large edifice evidently built at the time of the pyramids; that is, belonging to the first dynasties. It is a unique structure built of massive materials, rectangular in shape, and enclosed by two-layer walls six meters thick, bound together by dovetails. The area enclosed measures thirty by twenty meters and was separated into three parallel naves by enormous monolithic pillars of granite. The two side naves had a celling of granite monoliths about five meters long and more than two meters thick. The central section compones a great reservoir or pool surrounding which are seventeen cells, connected by a narrow footpath. Through the rear of one of the cells located in the center of the back wall, the entrance to the tomb of Oziris, was found. It seems ourlous that this ancient Egyptian structure, which may be one of the oldest, should be neither a temple nor a tomb, but a reservoir, fed by subterranean waters. It was probably connected in some way with the worship of Osiris. The cells are possibly those mentioned in the famous sook of the Dead, and it may be that the water had curative properties.

Other subjects of general interest

astonishing facts concerning the same, as well as much information relative to the physical properties of the sun, written by Dr. Charles G. Abbot, director of the Smithsonian astrophysical observatory; gyrostats and gyrostatic action, from the spinning top, to the later developments for steadying trains and ships, are ably set forth by Prof. Andrew Gray; under botany, some problems of plant pathology are discussed by Prof. L. R. FIELD FOR APPLIED CHEMISTRY Jones; R. M. Strong reports on the habits of the herring gull as observed near Green Bay and Lake Michigan, Wisconsin; senian institution at Washington has the regeneration of the horns or feelers and legs, after amputation, of the curious insect known as the walking-stick, is strikingly related by H. O. Schmit-Jensen; of Copenhagen; ancient Chinese bronzes, dating from 2205 B. C., are described and identified in an interesting tion, chemistry, geography, botany, 20- and well illustrated article by John C. clogy and ethnology, all of which are Ferguson, who also offers advice for the prepared in a non-technical style making detection of counterfeits; recent developthem of interest and value to the gen- ments in the art of electrical Humina tion are explained by Preston S. Millar of New York, and many other instructpecially for the report, or are selected ing and entertaining articles, some of from scientific journals and publications which have been reviewed separately by

Degree to Knights of Columbus Here

Four bishops of the Catholic church scientist, Paul Becquerel, and concerns Bishop Richard Scannell of Omaha, Patone of the most remarkable phenomena Lincoln, and James A. Duffy, Kearney, of the living kingdom. We meet latent and John H. Reddin of Denver, supreme since germs are continually emitted in fourth or patriotic degree, will attend a considerable quantity, even more by the exemplification of this degree for a plants than by animals, there is not a class of 150 candidates in Omaha on Ocpiece of ground on which we tread, nor tober 14. The event will be held at the the amallest quantity of air that we Fontenelle hotel and will be followed by

pollen and seeds in flowers and plants, Rush, Father P. A. Flanigan, John A. the cysts of certain minute protozoa, the Bennowithz, Paul Martin, W. C. Fraser eggs of some crustaceans and insects, and A. E. Hensley. Chief Justice Morpass into a state of latent life. So do rissey of the Nebraska supreme court animal tissues, and even some perfectly will be toastmaster at the banquet and developed forms of life, such as certain E. W. Simeral, master of the fourth despecies of algae, mosses, lichens, rotifiers, gree for Nebraska and South Dakota,

UNIVERSITY IN POLAND

WARSAW, Poland, Sept. 20.-Less than

The German authorities have readily agreed to the proposal of the citizens' amittee which now is conducting the city's affairs, allowing the return to Warsaw of Poles who now are in foreign countries. This includes scholars of all

LEFT IN FRENCH SENATE

PARIS, Sept. 20 .- With the recent death of Senator Rene Berenger, there is now left only one life member of the senate. When this body was created by the adoption of the constitution of February are discussed by Dr. L. H. Backeland. 25, 1875, provision was made for seventywho says that industrial chemistry has five life senators and 225 to be elected. reaching economic influences, and its formation of their seats into elective endless ramifications have become inter- seats was decided upon. The last sur-Marcere, who was elected by the senate fore the measure for suppression of life senators went into effect.

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