

said that he and his colleagues considered it a very great honor that an account of their researches on insulin should be given so prominent a place on the program. There was no other problem in the whole vast field of medical science that had attracted such diverse groups of workers as that of the relationship between the pancreas and disturbances in carbohydrate metabolism. Professor Macleod sketched the history of the discovery of insulin by Banting and Best, who worked in his laboratories. Insulin appeared to act not in the blood but in the tissue cells themselves. It caused the tissue cells to take up more glucose (blood sugar). "Insulin sets up some process by which, as it were, a vacuum for sugar becomes established in these cells, so that sugar is removed from the blood."

The various theories which have been advanced to explain this removal were discussed, and then Professor Macleod pointed out that insulin, or at least substances resembling it in certain particulars, had been obtained from clams and other shellfish and, in the case of yeast, from the vegetable kingdom.

#### SYMPOSIUM ON INDUSTRIAL, AGRICULTURAL AND FOOD CHEMISTRY

"BREAD" will be the subject for the symposium which will occupy the first half-day of the Industrial Division's session at the Milwaukee meeting of the American Chemical Society during the week of September 10. Under this heading will be presented papers dealing with the following:

1. Flour—Its manufacture.
2. Flour—Its physico-chemical characteristics.
3. Bread materials—How they are purchased, how formulas are set and carried out in production.
4. Control processes—How the baker regulates temperature, flour storage, fermentation rooms, mixer, oven, proof box, cooling rooms; humidity, in fermentation rooms, proof box and oven, synthesized operations, etc.
5. Bread—Its rôle in nutrition. A discussion of the new developments which our growing knowledge of vitamins and nutrition is stimulating.
6. Possibly some discussion of world wheat production, having in mind the probability that within a few decades our increasing population and diminishing wheat acreage will present a most vital problem.

Some of the speakers before this symposium will be: Professor Bailey, University of Minnesota; Professor R. A. Gortner, State Experiment Station of Minnesota; Dr. H. E. Barnard, director, American Institute of Baking; Dr. G. C. Thomas, Atlas Bread Factory, Milwaukee; Professor Worth Hale, Harvard Medical College. Dr. H. E. Barnard, director of the American Institute of Baking, will preside.

The afternoon of the first day's session will be devoted to a joint meeting with the Chemical Education

Section under the leadership of Dr. Edgar F. Smith, on "Chemical Education."

#### THE FRENCH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

THE annual meeting of the association was held at Bordeaux from July 30 to August 4 under the presidency of M. Desgry, a member of the Academy of Medicine. A list of the sections with their presidents follows: Mathematics, astronomy, geodesy and mechanics, Lieutenant Colonel Perrier; Navigation, aeronautics, civil and military engineering, M. Charles Camichel; Physics, M. Maurice de Broglie; Chemistry, M. Georges Denigès; Meteorology and physics of the globe, M. Luc Picart; Geology and mineralogy, M. Joseph Blayac; Botany, M. Lucien Beille; Zoology, anatomy and physiology, M. Louis Boutan; Anthropology, Dr. Henri Martin; Medical sciences, M. Jules Sabrazès; Medical radiology, Dr. Louis Jaulin; Odontology, M. Louis Quintin; The pharmaceutical sciences, M. Albert Astruc; Experimental psychology, Dr. Angelo Hesnard; Agriculture, M. Ulysse Gayon; Geography, M. E. Camena d'Almeida; Political economy and statistics, M. G. Pirou; Education, M. Julien Ray; Hygiene and public health, M. B. Auché; Sub-section for archeology, M. J. A. Brutaux; for linguistics and quantitative philology, M. J. Depoin.

#### THE LOS ANGELES MEETING

ARRANGEMENTS for the seventy-seventh meeting of the American Association for the Advancement of Science to be held in Los Angeles from September 17 to 20 are appropriately in charge of the Pacific Division of the association which will then be holding its seventh annual meeting. The Pacific Division covers a wide range of territory, including over one thousand members. Its meetings have been held successively at San Diego, Stanford University, Pasadena, Seattle, Berkeley, Salt Lake City, and this year at Los Angeles. The Southwestern Division, embracing a membership in Arizona, New Mexico, western Texas and Chihuahua, Mexico, will this year unite with the Pacific Division and the summer session of the association as a whole, holding its fourth annual meeting in Los Angeles.

The Southwestern Division will be represented on the program of the general sessions by the address of its president, Dr. V. M. Slipper, of Lowell Observatory, who will speak on "The Planets" on Monday evening, September 17, sharing the platform with Dr. E. P. Lewis, president of the Pacific Division.

Secretary E. A. Beals, of the American Meteorological Society, reports great interest among meteorologists and foresters in the Los Angeles meeting, with