

treatment, \$1; medicine, laboratory tests, x-ray photographs and other supplies at cost; diagnosis of cases requiring special examinations and study, with group consultation of specialists and diagnosis, \$10; thorough health examination to discover possible defects from diseases and to obtain advice regarding personal hygiene, \$2.50.

THE next meeting of the International Geodetic and Geophysical Union and of its various sections will be at Rome in 1922.

UNIVERSITY AND EDUCATIONAL NEWS

UNDER the terms of the will of the late Hiram Francis Mills, A.M. (Hon.) '89, of Hingham, \$200,000 has been left to Harvard University for the study of the origin and cure of cancer. The fund is to be known as the Elizabeth Worcester Mills Fund in honor of Mr. Mills's wife.

ON account of the increased enrollment in psychology courses in Purdue University, two additional instructors and an assistant have been appointed. The new instructors are: H. C. Townley, A.M. (Wisconsin '21), Peter McCoy, A.M. (Columbia '14), and Dorothy Lee, A.B. (Indiana '21). The present enrollment in general and vocational psychology is approximately 500, of whom 345 are men. Changes in the engineering curricula at Purdue make it possible for an engineering student to take two full years of work in psychology.

AT the University of Pennsylvania in the Medical School, Dr. Glen E. Cullen has been made an associate professor of research medicine. Dr. W. A. Jaquette has been made professor of oral surgery and director of the school of dental hygienists, and Dr. Samuel Goldschmidt has been made assistant professor of physiology.

Three associate professors in the Towne Scientific School have been promoted to full professorships in chemistry. They are Dr. John Frazer, Dean of the Towne Scientific School; Dr. Thomas P. McCutcheon and Dr. Hiram S. Lukens. The trustees have also

elected Dr. George A. Piersol emeritus professor of anatomy. Dr. Piersol retired from the professorship of anatomy last spring.

WELTON J. CROOK has resigned as chief metallurgist to the Pacific Coast Steel Co. to accept an appointment as associate professor of metallurgy in Stanford University.

MISS EMMA FRANCIS, who resigned as head of the nutrition laboratory, Battle Creek Sanitarium, last July, has been appointed assistant professor of chemical agriculture in the Experiment Station of Pennsylvania State College.

KENNETH H. DONALDSON has been appointed instructor in ore dressing and mining at the Case School of Applied Science.

PROFESSOR F. E. GUYTON, of the Ohio State University, has been appointed assistant professor of zoology and entomology at the Alabama Polytechnic Institute.

E. EUGENE BARKER has returned from Porto Rico and has accepted a position as associate professor of botany at the University of Georgia.

J. J. O'NEIL has been appointed acting assistant professor of geology at McGill University during the absence of J. A. Bancroft.

DISCUSSION AND CORRESPONDENCE AN EXPLANATION OF LIESEGANG'S RINGS

TO THE EDITOR OF SCIENCE: Dr. McGuigan seems to be unaware of much recent work on banded precipitates (SCIENCE, July 22). He has come to the conclusion, generally, that in some way, the chromate is attracted from the regions of the gel adjacent to the precipitate. So far this is in accordance with the theory proposed by myself in 1916 and confirmed by a long series of experiments.¹ But Dr. McGuigan's particular hypothesis will not bear examination in detail. He may be right in supposing the attractive force to be that between the silver and chromate ions. But this is not sufficient to explain why the bands form in gelatin and not in agar. Neither is the assumption tenable that the

¹ *Biochem. J.*, 1916, X., 169; 1917, XI., 14; 1920, XIV., 29, 474.