shoveled into the bag for export. For further information those interested may address the editor of *Tropical Life*, 112 Fenchurch street, E. C. London.

UNIVERSITY AND EDUCATIONAL NEWS

THE College of Agriculture of the University of the Philippines, situated at Los Banos, opened on June 14, with about sixty students. E. B. Copeland is dean and professor in botany; Harold Cuzner, professor of agronomy; Edgar M. Ledyard, professor of zoology, and S. B. Durham, professor of animal husbandry. The university opened a school of fine arts in Manila at the same time; it has no entrance requirements, and its registration is above 400. A college of veterinary science, for high school graduates was announced to open at the same time but there was only one applicant for admission. The secretary of public instruction, Judge Newton W. Gilbert, is acting president of the university.

PROFESSOR K. E. GUTHE, of the University of Iowa, has accepted a call as professor of physics to the University of Michigan.

DR. BURTON E. LIVINGSTON, staff member, Department of Botanical Research of the Carnegie Institution of Washington, has accepted an appointment as professor of plant physiology in the Johns Hopkins University. He will assume his new duties with the opening of the next academic year.

It is stated in the daily papers that Professor W. J. V. Osterhout, of the department of botany of the University of California, has accepted a call to Harvard University.

MR. WILLIAM T. HORNE has resigned his position as plant pathologist of the Cuban Agricultural Experiment Station to become assistant professor of plant pathology in the University of California.

MRS. ELLA FLAGG YOUNG, principal of the Chicago Normal School since 1905 and previously professor of education in the University of Chicago, has been elected superintendent of Chicago's public school system.

JOSEPH S. CHAMBERLAIN, Ph.D. (Johns Hopkins), chief of the laboratory of Cattle Food and Grain Investigations of the Bureau of Chemistry, U. S. Department of Agriculture, has been appointed associate professor of chem. istry in the Massachusetts Agricultural College.

MR. A. G. CHRISTIE, formerly in the steamturbine departments of the Westinghouse and Allis-Chalmers companies, has been appointed assistant professor of steam engineering at the University of Wisconsin.

PROFESSOR L. P. DICKINSON, of the electrical engineering department of Lafayette College, has been appointed professor of electrical engineering at Rhode Island State College to succeed Professor Gilbert Tolman, who recently resigned to accept a chair at Colby College.

DR. ROBERT F. SHEEHAN has been appointed professor of hygiene at the University of Buffalo to succeed Dr. Henry R. Hopkins, who has been appointed emeritus professor of hygiene. Dr. Herbert Hill has resigned as professor of chemistry, toxicology and physics.

DISCUSSION AND CORRESPONDENCE THE DUTY OF PUBLISHING

THE reason for all scientific investigation, that which not only justifies but even demands it, is the help its results, when known, will be to the human race through the fuller knowledge men will then have of the laws of the universe in which they are placed and from which they can not escape.

From this it follows that no investigation need be made—the labor and the expense of it are to no purpose—unless the results are to be published, that is, brought to the attention of those, preferably as many as possible, who are most likely to use this information in a manner helpful to themselves and to the rest of the world.

How much better it would have been if Willard Gibbs, for instance, instead of printing accounts of his investigations in a journal of most limited circulation, had published where the whole scientific world could haveseen them. For nearly a generation his remarkable discoveries were of no honor either to himself or to the institution with which he-