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NEWS and Notes

Gerhard Tintner, professor of economics, statistics, and mathematics at Iowa State College, has been granted a leave of absence to work with the research staff at the statistical laboratory at Cambridge, England. During the coming year Dr. Tintner will also give a series of lectures in economics and statistics to the Cambridge University undergraduate students.

James C. Warf was recently appointed assistant professor of chemistry at the University of Southern California. Dr. Warf, a Guggenheim Fellow now at the Chemisches Institut in Bern, Switzerland, was formerly associated with the Manhattan Project at Iowa State College.

Louis B. Howard, chief of the Bureau of Agricultural and Industrial Chemistry, U. S. Department of Agriculture, has resigned to become the first head of the year-old Department of Food Technology at the University of Illinois College of Agriculture. He will be succeeded by G. E. Hilbert, director of the Northern Regional Research Laboratory at Peoria, Illinois.

Horace N. Marvin, of the University of Arkansas School of Medicine, has been appointed head of the Department of Biology, M. D. Anderson Hospital for Cancer Research, Houston, Texas. At the Hospital, which is the state cancer hospital and a branch of the University of Texas, Dr. Marvin will be engaged in research on

the relation of hormones to cancer and growth in general.

Irene Rosenfeld, research pathologist at the University of Wyoming, has been granted sabbatical leave from September 1 of this year to September 1, 1949, in order to accept an Atomic Energy Fellowship. She will conduct research at the Donner Laboratory, University of California, during that period.

H. A. Ireland, director of geologic research for the Standard Oil Company of Texas, and A. G. Fischer, of the staff of the University of Rochester, have been appointed professor of geology and instructor, respectively, at the University of Kansas. Dr. Ireland will teach courses in sedimentation and petrography, while Dr. Fischer will teach stratigraphy and elementary paleontology.

Grants and Awards

The \$1,000 Paul-Lewis Laboratories Award in Enzyme Chemistry will be made to Albert L. Lehninger, assistant professor of biochemistry in the University of Chicago's Departments of Surgery and Biochemistry and a member of the University's Committee on Cancer, at the 114th national meeting of the American Chemical Society, which opens in Washington, D. C., on August 30. Dr. Lehninger's award address, on "Enzymatic Oxidation of Fatty Acids," will be delivered on September 2 at a symposium being conducted by the Society's Division of Biological Chemistry. The 31-year-old professor was cited, according to the ACS announcement, "for his research on the chemistry and metabolism of fatty acids, which has greatly increased man's

understanding of the manufacture of body tissue and muscular energy."

The Biological Laboratories, 16 Clinton Street, Brooklyn, New York, has received from the Atomic Energy Commission, through the Office of Naval Research, a grant of \$9,000 for a 6-month study of the effects of antisera on radiation damage. The work will be carried on under the direction of Norman Molomut, formerly of the Department of Medicine, College of Physicians and Surgeons, Columbia University, who organized the Laboratories in 1946 for the purpose of engaging in researches in physiology and microbiology.

Fellowships

Airborne Instruments Laboratory, Inc., Mineola, New York, has established two fellowships to aid worthy young men in obtaining advanced degrees in the field of communications and electronics, one valued at \$1,000 plus tuition at Stanford University, the other in the amount of \$1,200 plus tuition (\$1,800 for a married man) at the Massachusetts Institute of Technology. Recipients are to be selected by the staffs of the Electrical Engineering Departments of the two schools.

The Socony-Vacuum Oil Company, Inc., has recently announced that it has appropriated \$50,000 for a doubled program of fellowships in chemistry and physics at leading educational institutions. In addition to the 10 fellowships established last year and being continued for the 1948-49 academic year at California Institute of Technology, Harvard, Massachusetts Institute of Technology, Notre Dame, Ohio State, Princeton,

Rice Institute, Wisconsin, Illinois, and Yale, at least 10 more will be established for 1949-50 at institutions to be announced later. Recipients of these fellowships are selected by the universities from among students with at least one year of graduate work, and no restrictions are placed by the Company on the recipients as to future employment, publication of results of their investigations, or subjects of study.

The Company recently granted \$250,000 to the Massachusetts Institute of Technology for basic studies of nuclear fission.

Colleges and Universities

The University of Kansas is offering a four-year course of study leading to a new degree in geologic engineering. Details of this course may be obtained from the office of the Department of Geology. According to Robert M. Dreyer, chairman of the Department, the curriculum is especially suitable for students desiring to do practical geological work after graduation and who do not wish to go on to do graduate work.

A High School Science Service was recently established at the University of Oklahoma "to assist in the improvement of general education in science in Oklahoma through the development of services for and bases of interaction between teachers and science clubs in the public schools and the science organizations of the University and other state and national science organizations; to assist in the location and identification of young people of promising scientific interests and capabilities at the earliest possible time in their school careers; and to develop an improved university program for the education of prospective and in-service science teachers in the public schools." Planned through an advisory committee consisting of staff members from a wide range of University departments and administered through its Extension Division, the organization is now equipped to provide a large number of services. Among these are technical reference and consultant service in both science and education; loan libraries; a monthly bulletin of

science teaching and science club information in Oklahoma; and a weekly popular science radio program presented over the University's station, WNAD. A science fair, a two-day science teachers' conference, and publication of a series of science leaflets are planned during the next school year.

James G. Harlow, formerly director of science at Northeast High School, Oklahoma City, and at present an instructor in the University's Physics Department, is in charge of the new Service.

The new Los Angeles Division of the Stanford Research Institute opened on August 15, with headquarters in the Transamerica Building and with an initial staff of 15 people. Manager of the Division will be A. M. Zarem, former chief of the Electrical Section, Physical Research Division, U. S. Naval Ordnance Test Station, Pasadena, who will also serve as chairman of physics research. The Institute is currently carrying on numerous projects in the Los Angeles area. The smog problem, its cause, sources, and possible methods of control, is being studied extensively. Another project is an economic study to determine the expansibility of the aircraft industry in a national emergency, and still another is an evaluation of detergents for a Los Angeles firm in connection with patent developments. The Los Angeles Division staff will conduct research in a wide variety of fields of interest to southern California industry.

Industrial Laboratories

The General Electric Research Laboratory, Schenectady 5, New York, is distributing free to college departments of physics and chemistry and to other laboratories a new chart which gives the latest data concerning various forms or isotopes of the chemical elements. The chart, prepared by G. Friedlander and M. L. Perlman, Laboratory staff members, follows the general pattern of one previously devised by Emilio Segrè. It is printed on heavy paper, 26" x 50". Each square of the chart, in addition to the chemical symbol and atomic weight of the isotope, contains a good deal of

other pertinent data. Those interested in having such a chart may obtain one by writing to the Company.

The Wm. S. Merrell Company has announced that J. Knox Smith, who recently obtained his Master's degree at the University of Wisconsin, and Raymond Eling, a recent graduate of the Cincinnati College of Pharmacy, have joined the Pharmacology and Bacteriology Departments, respectively.

Smith, Kline & French Laboratories announces that Arthur E. Heming, who has been associated with the Johnson & Johnson subsidiaries as chief chemist in charge of their research laboratories developing their pharmaceutical products in South America, has been appointed to its staff as a research biochemist.

The Merck Institute for Therapeutic Research has just announced the appointment of Richard E. Shope, a member of the Rockefeller Institute of Medical Research and an authority in the field of experimental medicine, as associate director. A new building is being constructed to provide Dr. Shope with special facilities for the study of animal pathology. He will join the Merck Institute staff upon its completion next spring.

Summer Programs

The Third Summer School for Teachers of Chemical Engineering will be held August 30-September 4 at the University of Wisconsin, Madison, under the joint sponsorship of the Chemical Engineering Division, American Society for Engineering Education, and Wisconsin. Nearly 60 experts and leaders in engineering and engineering education are scheduled to participate in the program of technical sessions on thermodynamics, unit processes, applied electrochemistry, kinetics, instrumentation, plastics, and teacher qualifications. Many outdoor recreational facilities will be available. More than 200 members of the Society and their families are expected to attend. The two previous summer schools of this kind were held at the University of Michigan (1931) and at Penn State (1939).

Meetings and Elections

Three international symposia are to be held in France this fall under the sponsorship of the Centre National de la Recherche Scientifique and with financial support provided by the Rockefeller Foundation. The first symposium scheduled is that on Vitamins and Anti-Vitamins, which will be held in Lyon from September 27 to October 4. D. W. Woolley, of the Rockefeller Institute for Medical Research, is expected to present a paper at this meeting. The second, on Reactions in the Solid State, will take place in Paris from October 1 to 6 under the presidency of G. Chaudron, of the Faculté des Sciences, University of Paris. According to CNRS, a number of foreign scientists have been invited to attend, including Drs. Hedvall, Hagg, and Bornelius, from Sweden; Drs. Mott, Garner, Barrer, and Brindley, from England; Dr. Feitknecht, from Switzerland; and Dr. Ketelaar, from Holland. Exact dates for the symposium on Electrophysiology, to be held at the Sorbonne in Paris and the Institut Marey, have not been set, but it is expected that they will fall in the last week of November or early in December. This symposium is being organized by Prof. Fessard, director of the Institut. Summary reports will be published in the *Revue Scientifique*, and the proceedings will appear in full at a later date.

U. S. scientists wishing to attend these symposia may obtain further information concerning them from the New York office of CNRS, 934 Fifth Avenue, New York City 21. Scientists abroad may contact the CNRS at 5ème Bureau, 13 Quai Anatole France, Paris VIIe.

The Fourth Annual National Conference on Industrial Hydraulics, under the sponsorship of the Armour Research Foundation, will be held October 20-21 at the Hotel Sheraton, Chicago. Present tentative plans call for two morning and two afternoon technical sessions with presentation of varied papers. As scheduled, the program will include a session on Recent Applications, under the chairmanship of J. T. Greenlee, Imperial Brass Manufacturing Company; one

on Hydraulic Components, with B. A. Parks, of the Crane Company, acting as chairman; a session with T. M. Niles, of Greeley and Hansen, acting as chairman, which will discuss Pumps and Turbines; and a final session on Servomechanisms, which has been scheduled under Chairman C. J. Clark, of Ingersoll-Rand Company.

Information regarding the Conference may be obtained from S. F. Musselman, Assistant Chairman, Applied Mechanics Research, Armour Research Foundation, Technology Center, Chicago 16, Illinois.

The American Academy of Dental Medicine is planning to hold its annual midwinter meeting and luncheon at the Hotel Pennsylvania, New York City, on Sunday, December 5, at 12:30 P.M. Round-table discussions on dental-medical subjects will follow the luncheon. All Academy members as well as interested dentists and physicians are invited to attend. Further information may be obtained from Dr. William M. Greenhut, National Secretary, 124 East 84th Street, New York City 28.

The Sir Joseph Barcroft (1872-1947) Memorial Conference on Hemoglobin was held at Cambridge, England, June 15 through 17. According to David L. Drabkin, professor of physiological chemistry, Graduate School of Medicine, University of Pennsylvania, who participated in the Conference as chairman of the Haem Group and also presented a paper in one of the other sessions, "all the participators at this international conference were in agreement that it was an exceedingly valuable meeting of authorities in the field to which Joseph Barcroft had devoted much of his lifetime.

"The first morning session was given over to brief addresses upon Barcroft's life and work by a group of most distinguished scientists, including three Nobel Laureates. The remainder of the three days were spent in scientific sessions at which 25 individual contributions were presented, with lively discussions after each.

"The success of the hemoglobin conference was due in large measure to the effort of the initiator of the meeting, Prof. F. J. W. Roughton, and

the local committee (Cambridge University), the members of which included Profs. D. Keilin, A. C. Chibnall, G. S. Adair, and M. Perutz.

"Cambridge fortunately has been untouched physically by the war, and those of the visitors who were housed in King's College will long remember not only the intellectual stimulus of the scientific meeting, but the gracious way of life in this great University."

The two-hour Memorial Session, under the chairmanship of E. D. Adrian, was addressed by H. H. Dale (London), A. S. Krogh (Copenhagen), C. G. Douglas (Oxford), A. V. Hill (London), R. A. Peters (Oxford), G. S. Adair (Cambridge), and F. J. W. Roughton (Cambridge). (Those unfamiliar with the work of Sir Joseph Barcroft might be interested in reading the obituary published in *Science*, August 22, 1947, pp. 160-161.)

The session on Comparative Physiology and Chemistry of Oxygen Carriers was under the chairmanship of A. S. Krogh, of Copenhagen, and had as participants H. Munro Fox (London), H. P. Wolvekamp (Leiden), and H. Davenport (Cambridge), while that on Chemical Analysis and Amino Acid Composition of Haemoglobin, Myoglobin, etc., of which J. T. Edsall, of Harvard University, was chairman, included papers by G. Rossi-Fanelli (Pavia), G. R. Tristram (Cambridge), and F. Sanger and R. E. Porter (Cambridge). Dr. Drabkin's session on the Haem Group included contributions by L. C. Pauling (California Institute of Technology), J. Wyman (Harvard University), and F. Haurowitz (Istanbul); the metabolic aspects of haem and haemoglobin were discussed by A. Vannotti (Lausanne) and C. Rimington (London). The session on Specificity of Haemoglobin—Differences Between Foetal and Adult Haemoglobin, of which Dr. Haurowitz was chairman, was participated in by M. Karvonen (Cambridge and Helsinki), J. R. P. O'Brien and Mrs. H. M. Jope (Oxford), and J. H. P. Jonxis (Rotterdam). W. N. M. Ramsay (Edinburgh) and H. Barcroft and Q. Gibson (Belfast) discussed some chemical and physiological aspects of haemoglobin. Dr. Pauling served as chairman of the session on X-Ray Investigation of Crystalline Oxygen Carriers, with M. Perutz and

J. C. Kendrew (Cambridge) as participants. Another session, on Physical Chemistry of Haemoglobin, included papers by Dr. Drabkin, G. S. Adair (Cambridge), and F. J. W. Roughton, J. W. Legge, and M. Nicholson (Cambridge). Following demonstrations in the Molteno Institute and a tea on the afternoon of June 17, D. G. Derivichian (Paris), M. Joep (London), and Chr. de Duve (Louvain) presented papers before a session on Physical Chemistry of Haemoglobin and Red Cells, which was under the chairmanship of F. J. W. Roughton. The final hours of the day were devoted to a paper on "Thermodynamic Analysis of Some Reversible Reactions of Haemoglobin in Solution," by H. Gutfreund of Cambridge.

Early publication of both the memorial addresses and the scientific papers is being considered.

A Symposium on Ecologic and Genetic Factors of Speciation in Animals was held by the Istituto Italiano di Idrobiologia, Pallanza (Novara), Italy, from July 29 to August 2, under the sponsorship of the Consiglio Nazionale delle Ricerche (Italian National Research Council), whose general secretary, Comm. Dr. A. Morelli, opened the Symposium. Thirty-four biologists attended. A. Buzzati-Traverso, head of the Institute's Department of Genetics, reports that papers were read by E. Baldi ("Isolation Mechanisms in Populations of Plankton Fresh-Water Crustaceans"); M. Benazzi, Pisa ("Genetic-systematic Studies on Trilades"); F. G. Brieger, Piracicaba ("Heterosis in Population-Genetics and Evolution"); H. Burla, Zürich ("On the Ecology of *Drosophila* Species of Switzerland"); U. D'Ancona ("Nemi's Daphniae During 25 Years of Observations"); A. Dreyfus, São Paulo ("Sex Ratio in Hybrids and Its Interpretation by the Study of Salivary Chromosomes"); M. Galgano, Florence ("Ecologic and Genetic Factors in the Sexual Cycle of the Amphibians"); J. B. S. Haldane, London ("The Importance of Disease in Evolution and Speciation"); J. Heuts, Louvain ("Ecologic and Genetic Factors in the Speciation of the Fish *Gasterosteus aculeatus*"); F. Mainx, Wien ("Chromosomal Races of the

Agromyzine *Lirryomiza*"); B. Rensch, Münster ("Histologic Transformations by Changes in Body Size"); H. Spurway-Haldane, London ("Some Comments on Vavilov's Law of Homologous Variation"); V. Tonolli, Pallanza (High-Mountain Diaptomids Populations' Isolation and Stability"); and L. Trevisan, Pisa ("Remarks on the Evolution of the Elephants During the Quarternary"). Th. Dobzhansky, of Columbia University, introduced the theme for discussion and at the end of the meeting commented upon the papers presented. The papers are to be published in a special volume, edited by the Consiglio Nazionale delle Ricerche.

The American Society for the Study of Arteriosclerosis recently elected the following officers: William B. Kountz, president; Irvine H. Page, vice-president; O. J. Pollak, of Quincy City Hospital, Quincy 69, Massachusetts, secretary-treasurer; and as directors for the 1948-49 term, G. Lyman Duff and Robert A. Katz; for the 1948-50 term, E. C. Andrus and Myron Prinzmetal; and for the 1948-51 term, Louis N. Katz and Henry S. Simms. The 1948 annual scientific meeting of the Society will be held October 31-November 1 at the Hotel Knickerbocker in Chicago. Members are urged to make hotel reservations immediately.

The American Standards Association was incorporated under the laws of New York State on August 2. The Association was organized in 1918 as the American Engineering Standards Committee, a coordinating committee for the standardization work of 5 of the country's important technical societies. Subsequent broadening of scope and organizational setup to include associations and government agencies led to the extension of the work into the field of safety standards, and in 1928 a complete reorganization took place, the Committee being changed to the American Standards Association, which has served as the Nation's clearinghouse for standards and the U. S. medium for international contacts on standardization. Still further enlargement of activities has led to its present incorporated status. Bills seeking Federal incorporation

have been introduced into both the House and the Senate. The Association's coordinating functions now extend to standards in the mechanical, electrical, building, photographic, mining, safety, and consumer goods fields, and in addition, general work is done on office equipment and abbreviations and symbols for use in scientific literature.

Frederick R. Lack, vice-president of Western Electric Company, is president of the incorporated Association, and Vice-Adm. G. F. Hussey, Jr. (USN, ret.) is secretary and administrative head.

A new periodical covering all branches of plant physiology has recently appeared. This quarterly, issued under the title *Physiologia Plantarum*, is to be the official publication of the Scandinavian Society for Plant Physiology and is open to contributions from Scandinavian and foreign members of the Society. Papers are to be printed in English, French, or German. Prof. H. Burström, of the Botanical Laboratory, Lund, Sweden, is editor-in-chief. The subscription price for nonmembers is 40 Danish Kroner (about \$8.00). Subscriptions may be placed with Einar Munksgaard, Norregade 6, Copenhagen, Denmark.

Make Plans for—

Electron Microscope Society of America, annual meeting, September 9-11, McLennan Laboratory, Department of Physics, University of Toronto, Canada.

Human Genetics Society of America, first meeting, September 11-13, Washington, D. C.

Society of Systematic Zoologists, September 12, Washington, D. C.

American Chemical Society, western session of 114th meeting, September 13-17, Portland, Oregon.

Laurentian Hormone Conference of the AAAS, September 13-18, Forest Hills Hotel, Franconia, New Hampshire.

La Société de Chimie Biologique, 8th Congress, October 6-8, Paris, France.