

NEWS

and Notes

Earlham College, Richmond, Indiana, celebrated its 100th anniversary September 19-23 with a varied program of events in which scientists played an outstanding part. On the evening of September 19 Wendell M. Stanley, of the Rockefeller Institute for Medical Research, Nobel Prize winner and Earlham alumnus, presented an illustrated address on "Studies on Purified Influenza Virus," and the forenoon session September 20 consisted of three addresses: "What Is the Scientific Method?" by Charles F. Kettering, General Motors Corporation; "Science as a Force for Peace" by Dr. Stanley; and "Psychological and Medical Research in Aviation" by Walter R. Miles, professor of psychology, Yale University School of Medicine, who is also an Earlham alumnus. The latter part of the celebration centered around the founding of the College and a conference on "The Place of Religion in the Reconstruction of Civilization." Addresses on "Earlham in England" and "Earlham in America" were given, respectively, by Frank Woods, the Vicar of Huddersfield, England, and a member of the Gurney family of Earlham Hall, for which Earlham College was named, and by President Jones. Other invited speakers included Robert M. Hutchins, chancellor of the University of Chicago, Rufus M. Jones, emeritus professor of philosophy, Haverford College; and Walter D. Fuller, president, Curtis Publishing Company.

From the celebration emerged some interesting facts about this Quaker College's first 100 years: Of all the coeducational colleges in the country, in 1940 Earlham ranked first in percentage of living graduates listed in *Who's who in America*; in addition, Earlham men listed in the 1944 edition

of *American men of science* were five times the national average of all colleges and universities on a total enrollment basis; over a 9-year period covered by a recent survey made by the Association of American Medical Colleges no graduate of the College had failed in first-year medicine; and finally, of the some 10 Nobel Prizes awarded to Americans in the field of science, two were received by former students at Earlham—Wendell M. Stanley and Harold C. Urey.

About People

C. W. Brabender, electrical engineer and physicist, and a well-known designer of testing equipment used by food processors, and **A. W. Fornet**, formerly consultant to the Royal Baking Powder Company, Berlin, and European expert on grain, flour, and breadmaking, are the first foreign scientists to be assigned to the Quartermaster Food and Container Institute for the Armed Forces, Chicago.

James H. Bywaters, U. S. Department of Agriculture Poultry Research Laboratory, East Lansing, Michigan, has been appointed research poultryman, Virginia Agricultural Experiment Station, Blacksburg, Virginia. Dr. Bywaters will plan and conduct poultry research projects aimed toward development and guidance of the poultry industry in Virginia.

Alan Gregg, director, The Medical Sciences, Rockefeller Foundation, New York City, and **Karl M. Bowman**, Langley Porter Clinic, San Francisco, have been appointed members of the National Advisory Mental Health Council, U. S. Public Health Service, succeeding **Frank F. Tallman**, commissioner of mental hygiene, Department of Public Welfare, Columbus, Ohio, and **George S. Stevenson**, medical director, National Committee for Mental Hygiene, New York City, who were both appointed consultants in mental health to the U. S. Public Health Service upon the expiration of their terms on the Council.

Tibor Rado, chairman, Department of Mathematics, Ohio State University, is on leave of absence during the autumn term to serve as visiting professor at the University of Puerto Rico.

Stuart Mudd, School of Medicine, University of Pennsylvania, was elected as the American Delegate of the Executive Committee of the International Union of Biological Sciences at its 11th General Assembly held on July 28 at the Royal Danish Academy of Science, Copenhagen.

Arthur R. Colmer, until recently of West Virginia University, is now associate professor of bacteriology, Louisiana State University, Baton Rouge.

Robert A. Conover, Department of Botany, University of Illinois, has been appointed associate pathologist, University of Florida Subtropical Experiment Station, Homestead, Florida.

Stanley W. Oexemann, Carleton College, has been named professor of biology, Carthage College, Carthage, Illinois.

William H. Summerson, formerly associate professor of biochemistry, Cornell University Medical College, is now chief, Biochemistry Section, Medical Division, Army Chemical Center, Maryland.

Emmet F. Hitch, special assistant to the management, E. I. du Pont de Nemours & Company's Chambers Works, Deepwater Point, New Jersey, has resigned after 29 years of service to become professor, Department of Chemistry, Purdue University.

Robert Kriss Wyant, formerly of the U. S. Geological Survey, Albuquerque, New Mexico, has been appointed assistant curator of Economic Geology, Chicago Natural History Museum.

William H. Hollis, research associate and instructor of industrial accident prevention, Center for Safety Education, New York University and Stevens Institute of Technology, has been appointed senior safety engineer, Los Alamos Scientific Laboratory, where he will continue basic research in accident causation and in industrial safety education program development.

Karl Lehmann, professor of fine arts and director, Archaeological Research Fund, New York University, who has been directing the salvaging of monuments in Greece this summer (*Science*, June 20), recently returned to this country after arranging for the continuation of the University's archaeological research and excavation work, interrupted by World War II, on the island of Samothrace.

Adrien Albert, who has been conducting work on the physics and chemistry of drug action at the University of Sydney since 1938, has been appointed to the staff of the Wellcome Research Institution, London, to initiate similar studies there.

Arthur G. Vestal, who has been on sabbatical leave from the Department of Botany, University of Illinois, during the past year to conduct ecological studies of the grasslands of California, has returned to the campus.

Myron Gordon, geneticist, New York Aquarium, New York Zoological Society, and **Caryl P. Haskins**, director, Haskins Laboratories, have been appointed research associates, Department of Animal Behavior, American Museum of Natural History. Together with **T. C. Schneirla** and **L. R. Aronson**, curatorial members of the Department, they form the nucleus of a group which is directing its attention toward studying factors underlying species behavior patterns in relation to problems of genetics and evolution.

Dexter H. Reynolds, group leader in charge of the Physical Laboratories, Central Research Division, Monsanto Chemical Company, Dayton, Ohio, has been appointed research professor and technical director, Division of Research and Development, University of New Mexico. Dr. Reynolds assumed his new duties September 1.

Grants and Awards

The Worcester Foundation for Experimental Biology has, during the fiscal year ending May 31, 1947, been the beneficiary of research grants totaling approximately \$100,000, according to a report submitted by Hudson Hoagland and Gregory Pincus, co-directors. Donors of the grants included the Applied Research Foundation, San Antonio, Texas; the Donner Foundation; the American Cancer Society, Massachusetts Division; the G. D. Searle Company; the Committee on Endocrinology, National Research Council; the Council on Pharmacy and Chemistry, American Medical Association; the American Academy of Arts and Sciences; the Schering Corporation; and the U. S. Navy. Since July 1 the Foundation has received grants of \$9,236 from the Cancer Committee of the U. S. Public Health Service and \$30,469 from the Committee on Problems of Aging of the U. S. Public Health Service.

The Foundation is a nonprofit educational and research institution engaged in basic biological investigations. Part of its income is derived from annual contributions of Worcester citizens and institutions who subscribe to memberships. The Foundation's 450 members contribute approximately \$25,000 per year toward overhead. To quote Drs. Hoagland and Pincus, "this community aid for basic science, given in the same spirit that characterizes its support of music, art, and other civic institutions, is most unusual and worthy of note."

The New York Academy of Sciences has received grants totaling \$10,000 from the Anna Fuller Fund, Jane Coffin Childs Memorial Fund for Medical Research, NRC Committee on Growth acting for the American Cancer Society, and National Advisory Cancer Council of the National Cancer Institute, for purposes of aiding the Academy in publishing the book, *The biology of melanomas*. This will contain 27 papers, most of which were read at the Academy's conference on "The Biology of Normal and Atypical Pigment Cell Growth," held at the American Museum of Natural History, November 15-16, 1946. Myron Gordon, geneticist, New York Aquarium, New York Zoological Society, and organizer of the pigment cell conference, is consultant editor of the volume. Publication is expected this year. The New York Academy's editor is Roy W. Miner, and its executive secretary is Mrs. Eunice Thomas Miner.

Industrial Laboratories

The Eastman Kodak Company has announced a new method of making silver nitrate crystals for use in photographic manufacturing. The former method of production of the crystals by evaporation in open porcelain dishes is now replaced by a system using machinery that makes the crystals continuously and dries them in a few minutes. The drying process alone used to take several days. Chunks of silver, the material which makes modern photography possible, are dissolved in nitric acid and the resulting greenish liquid goes into storage tanks from which it is slowly pumped into 1,000-gallon stainless-steel crystallizers. Here the liquid undergoes constant stirring and addition of fresh silver nitrate solution, which makes for formation and growth of crystals in the lower part of the

tank. After being drawn from the tank through a pipe, poured into perforated steel baskets, and relieved of most of their moisture by a spinning of the baskets, the crystals are redissolved in distilled water and the crystallizing process repeated. A rotary drying drum is finally used for completely drying the crystals.

Irving I. Rusoff, formerly head of nutrition, Fleischmann Laboratories, Standard Brands, Inc., has been appointed section head, Organic Research Laboratory, Central Laboratories, General Foods Corporation.

Meetings

The William James Lectures on Psychology will be given this year at Harvard University by B. F. Skinner, Indiana University, on the topic "Verbal Behavior." Dr. Skinner will speak at 4:15 P.M. on Fridays as follows: October 10, "The Age of Words"; October 17, "Verbal Behavior as a Scientific Subject Matter"; October 24, "Types of Verbal Behavior"; October 31, "Words and Things: The Problem of Reference"; November 7, "Multiple Sources of Verbal Strength"; November 14, "Making Sentences"; November 21, "The Effect Upon the Listener"; November 28, "Understanding: Real and Spurious"; December 5, "Thinking in Words"; and December 12, "The Place of Verbal Behavior in Human Affairs."

The Electronic Components Subcommittee, Aircraft Radio and Electronics Committee, Aeronautical Board, is sponsoring a technical symposium on "Printed Circuits" to be held at the Interior Department Auditorium, 18th and C Streets, N. W., Washington, D. C., October 15, beginning at 9:30 A. M. Eleven technical papers will be presented under the direction of Cleo Brunetti, National Bureau of Standards. Speakers will be included from the Army Air Forces; Navy Bureau of Aeronautics; National Bureau of Standards; Centralab Division, Globe-Union, Inc.; E. I. du Pont de Nemours & Company, Inc.; International Resistance Company; Continental Carbon Company; Signal Corps Engineering Laboratories; Remington Arms Company; Corning Glass Works; Metaplast Company; Altair Machinery Corporation; and Spraywire Laboratories, Inc. The Aeronautical Board is issuing invitations, a limited number of which are still avail-

able upon request to Printed Circuits Symposium Committee, Navy Department, Room 1W91, Washington 25, D. C.

A technical symposium on the National Bureau of Standards Casting Resin, developed by the Bureau for potting high-frequency radio equipment, will be held in the conference room of the Bureau's Materials Testing Laboratory, Washington, D. C., October 16, beginning at 9:30 A.M. The symposium is open to interested representatives of industry and government. The casting resin, primarily designed for potting high-impedance, high-frequency electronic equipment, affords ruggedness, moisture-proofing, and circuit stability. The speakers will include Harry Diamond, chief, Ordnance Development Division, in which the resin was developed, and P. J. Franklin and M. Weinberg, who were active in its formulation. An open discussion of the subject will follow the addresses.

All registrants for the Pacific Industrial Conferences, running concurrently with the 1947 Pacific Chemical Exposition, October 21–25, San Francisco, are invited to attend the programs presented by the participating groups, including the California Section, American Institute of Chemical Engineers; American Society for Testing Materials; American Institute of Mining and Metallurgical Engineers; Golden Gate Paint and Varnish Production Club; Northern California Rubber Group; Pacific Insecticide Institute; Institute of Food Technologists; Western Chemical Market Research Group; Analytical Group, California Section, American Chemical Society; Petroleum Group, California Section, American Chemical Society. R. D. Stewart, University of California, is program coordinator for the Conferences.

The American Anthropological Association will hold its annual meeting in Albuquerque, New Mexico, December 28–31, inclusive, with the University of New Mexico as host institution. An invitation has been extended to the Society for American Archaeology to meet jointly with the Association at that time.

The question of soil surveys in the Caribbean was considered at some length during the second session of the West Indies Conference, which met in St. Thomas, Virgin Islands, in February–March 1946. At

that time it was recommended to the Caribbean Commission that, because of the limited number of qualified soil scientists in that area, an informal meeting of soil scientists nominated by the governments of the Caribbean territories and those of the U. S. Department of Agriculture be called at an early date. Following upon this recommendation the Commission appointed a subcommittee consisting of H. J. Page (chairman), principal, Imperial College of Tropical Agriculture, Trinidad; D. Blanche, acting head, Agricultural Service, Martinique; J. A. Bonnet, head, Soils Department, Agricultural Experiment Station, University of Puerto Rico; F. Hardy, professor of chemistry and soil science, Imperial College of Tropical Agriculture; and H. J. Muller, agricultural chemist, Department of Agricultural Economics, Surinam. This subcommittee, which met in Trinidad March 15–18, 1947, recommended in turn that a Conference of Soil Scientists be held in Puerto Rico in 1948, under the auspices of the Committee on Agriculture, Nutrition, Fisheries, and Forestry of the Caribbean Research Council. The proposed agenda includes: (1) presentation and discussion of collected data on soil-forming factors of the various territories; (2) standardization of field and laboratory methods of soil surveys; (3) discussion of different systems of soil classification and mapping; (4) formulation of a detailed regional program of surveys; (5) survey of problems of soil erosion, conservation, and renovation; and (6) practical application of soil surveys to land utilization. It is intended that the proposed conference be as representative as possible. The working committee which is preparing for the Conference has not yet settled upon a definite date.

"Earth Sciences From the Oceanographic Point of View" was the general topic of discussion at the second session of the New England branch of the American Geophysical Union, held at the Marine Biological Laboratory, Woods Hole, September 18, under the chairmanship of C. O'D. Iselin. Highlight of the meeting was Maurice Ewing's talk on the recently concluded expedition of the *Atlantis* to the mid-Atlantic Ridge (*Science*, July 18), during which considerable quantities of rock from the steep slopes of the Ridge were obtained for examination and classification. A paper by Reverend Daniel Linehan, of

Weston College, Massachusetts, described the tripartite system of recording the direction and location of a hurricane through three U. S. Government seismic stations set up in the West Indies. W. D. Urry, Carnegie Institution of Washington, described a method whereby the age of sediments on the ocean bottom may be determined by analysis of their radium content. Prediction of average monthly conditions under which Navy landing craft and seaplanes can safely be operated near beaches is made possible by an instrument described by H. R. Seiwel. J. B. Hersey and Hilary B. Moore, Woods Hole Oceanographic Institution, discussed the question of whether shrimps or fish cause an unusual recording on ships' sonic sounding instruments. E. E. Watson, also of the Institution, described the bathyclinograph, by which a vertical current profile may be obtained. Henry Stommel and J. L. Worzel, both of the Institution, discussed, respectively, a theoretical study of large-scale ocean currents which demonstrates that discrepancies between the facts that great ocean currents are primarily driven by the force of permanent wind systems and that these currents are not most intense where wind is present are a logical outcome of influence of the earth's rotation, and gravity observations made at sea.

The Symposium on the Use of Isotopes in Biology and Medicine held at the University of Wisconsin September 10–13 brought together over 500 leaders in many branches of science, including some 20 foreign scientists—the largest scientific gathering ever devoted to the exchange of information about isotopes. The papers presented at the symposium, which were oriented toward the use of isotopes as a laboratory tool in a variety of fields including medicine, biochemistry, chemistry, physics, bacteriology, genetics, botany, and cancer research, will be published in monograph form within a few months.

Recent Deaths

William C. Anderson, 83, dean emeritus, Brooklyn College of Pharmacy, Long Island University, died in Keyport, New Jersey, September 3.

Neil A. Miner, 49, professor of geology at Cornell College, Mount Vernon, Iowa, died September 16 following an illness of several months. Dr. Miner was known for

his work on Pleistocene geology and sedimentation. He was founder and director of Camp Norton, Wind River, Wyoming, for summer instruction in field geology.

William Seaman Bainbridge, 70, professor of operative gynecology, New York Post-Graduate Hospital and School, professor of surgery, New York Polyclinic Medical School and Hospital, and surgeon and secretary, Research Committee, New York Skin and Cancer Hospital, died September 22 at Danbury Hospital, Connecticut.

Pierre Lecomte du Noüy, 64, at one time chief, Division of Molecular Biophysics, Pasteur Institute, died September 22 in Roosevelt Hospital, New York. Dr. du Noüy, a former associate member, Rockefeller Institute, was the author of *Human destiny*, published in February.

Benjamin Carpenter, Jr., 51, associate professor of physics, Navy Pier branch, University of Illinois, died September 24 of a heart attack shortly after attending a noon class.

Synthetic star sapphires and rubies, made by the Linde Air Products Company, a unit of Union Carbide and Carbon Corporation, were shown for the first time at the American Museum of Natural History, New York City, on September 24. F. H. Pough, curator of Physical Geology and Mineralogy at the Museum, indicated that these can be distinguished from the natural star stones by the curving lines which appear on the backs of synthetic stones, which may be detected by jewelers with no great difficulty. It is not anticipated that the new synthetic stones will have any deleterious effect upon the fine star stone market, even though synthetic rubies require the eye of an expert for distinction. Because each is individually processed and it is difficult to achieve uniformity in production, the synthetic stones will vary in quality, and it will be as hard to match them as to match natural stones.

The Istituto Italiano di Idrobiologia, Pallanza, Italy, founded in 1933 with private endowment and located on the north shore of the Lago Maggiore, has announced that it has space available for foreign guests. There is also a branch at Varenna, on the east shore of Lago di Como. The main activities at the In-

stitute are in the fields of fresh-water ecology, systematics, planktology, genetics (especially *Drosophila*), and evolution. It publishes a series of *Memorie*, the third and fourth volumes of which are to appear shortly, and it is desired to arrange exchanges between these and journals or proceedings of American societies and laboratories. The Institute's equipment for field and laboratory work provides ample facilities for limnological investigations on both the great and the smaller lakes of the Alpine region. The equipment of the genetic laboratories is particularly suitable for studies on population genetics and on biophysical problems. The Institute offers free lodging and laboratory space to foreign guests, up to a maximum of five at a time. For further information, applications, and arrangements, those interested should contact Dr. E. Baldi, director, Istituto Italiano di Idrobiologia, Pallanza (provincia Novara), Italy.

The Society for the Study of Evolution has recently published the first issue (Vol. I, Nos. 1-2, March-June 1947) of *Evolution*, a quarterly "international journal of organic evolution" which is under the editorship of Ernst Mayr, The American Museum of Natural History, New York City 24. Assisting Dr. Mayr is a group of associate editors including C. Epling, Los Angeles; J. B. S. Haldane, London; J. Huxley, London; G. L. Jepsen, Princeton; A. Müntzing, Lund; T. S. Westoll, Aberdeen; R. W. Chaney, Berkeley; C. D. Darlington, London; R. A. Fisher, Cambridge, England; C. Hubbs, La Jolla; N. Newell, New York; J. Piveteau, Paris; Th. Dobzhansky, New York; N. P. Dubinin, Moscow; B. Rensch, Münster; A. S. Romer, Cambridge, Massachusetts; G. L. Stebbins, Berkeley; and W. B. Turrill, Kew, England. Subscriptions to the journal (\$6.00 per volume) may be ordered through the business manager, K. P. Schmidt, Chicago Natural History Museum, Chicago 5, Illinois. This journal, designed to meet the acute need for a publication devoted exclusively to results of research in the field of evolution, will bring together contributions from all fields of biology.

The Library of the Botanical Garden and Institute and the Cryptogamical Laboratory, center of studies on fungicides, human and comparative mycopathology, and mushroom culture, Pavia, Italy, wishes to exchange biological

and general scientific periodicals and reprints with U. S. organizations and institutions. Almost complete series of *Atti* (Transactions; 43 vols. from 1888 on) and *Archivio Botanico* (22 vols. from 1925 on) are available as well as reprints of the same periodicals and of *Mycopathologia* and *Il Farmaco*. Communications may be addressed to the director, R. Ciferri, P. O. Box 165, Pavia, Italy.

The excellent technical library, Teknillinen Korkeakoulu, Institute of Technology, Helsinki, Finland, was bombed and totally destroyed during the recent war, according to a report from Arthur E. Morgan, Community Service, Inc., Yellow Springs, Ohio, who was a recent visitor there for the American Friends Service Committee. Martti Levon, director of the Institute, will welcome gifts of scientific and technical books and periodicals from this country to take the place of those destroyed. Any such gifts should be marked for the Institute of Technology, Helsinki, and sent to the Legation of Finland, 2144 Wyoming Avenue, N. E., Washington, D. C. J. T. Jutila, Finnish Minister, will arrange for their shipment.

Make Plans for—

The New York Academy of Medicine, 20th Graduate Fortnight, October 6-17, 2 East 103rd Street, New York City.

Electrochemical Society, Fall Convention, October 15-18, Boston.

American Chemical Society, Philadelphia Section, Fall Meeting, October 16, Franklin Institute, Philadelphia.

National Conference on Industrial Hydraulics, Third Annual Meeting, October 16-17, Hotel Continental, Chicago.

Society of Rheology, October 30-31, New York City.

American Institute of Electrical Engineers, Midwest General Meeting, November 3-7, Chicago.

American Institute of Chemical Engineers, November 9-11, Detroit, Michigan.

American Association for the Advancement of Science, 114th Meeting, December 26-31, Chicago, Illinois.