"a best seller," was *Heredity and Environment,* which appeared first in 1914. It passed through six editions and was translated into Japanese and Russian. Other volumes are: *Direction of Human Evolution* (1920, 1922), *Mechanism of Evolution* (1920), *General Morphology of Animals* (1927), *Problems of Development* (1929), *Freedom and Responsibility* (1935), *Science and Ethics* (1937), *Biology and Democracy* (1938), *What Is Man?* (1941), and *Man: Real and Ideal* (1943).

Throughout his life, the human interest led to acceptance of executive duties, to willingness to serve on many committees, to support various causes, all of which took time from scientific research but became the background for a far wider viewpoint than specific research could have given. He was especially interested in education and in the philosophy of religion. Commencement addresses and published pamphlets present an original viewpoint in this field. Always a liberal in outlook, he was a great believer in freedom and, like most scientists, was vehemently opposed to any sort of regulation and regimentation.

As committeeman he was a persuasive speaker, and as lecturer an eloquent one. At Ohio Wesleyan much attention was paid to elocution and public speaking. Professor Conklin had joined a literary society, wrote poetry and essays, and took part in oratorical contests. This training and his human interest made the general biology lectures at Princeton University a popular course for many years, and he was in great demand for talks in which science is interpreted for the layman. His long association with Science Service (president, 1937–1945) and the AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (president, 1936), again reflect his broad interest in science and in man.

Professor Conklin liked nothing better than to gather around him, in the laboratory or at his home, a group of students for discussion of various subjects. These were times for reminiscence during which his listeners could learn about the history of American biology in the early part of the century from tales related with a keen sense of humor. His love of social contacts was ably supported by his wife, the former Belle Adkinson, who was always interested in his many friends and was a delightful hostess. His students and all who knew him intimately will mourn the loss of this truly great biologist and leader in science.

# *News and Notes*

## Federation of American Societies for Experimental Biology

THE Federation of American Societies for Experimental Biology (American Physiological Society, American Society of Biological Chemists, American Society for Pharmacology and Experimental Therapeutics, American Society for Experimental Pathology, American Institute of Nutrition, American Association of Immunology) held its thirty-seventh annual meeting in Chicago, April 6–10. The meeting was well attended, with a total registration of 6078, composed of members of the constituent Societies, visiting scientists, representatives of industries in the fields of the Federation, and guests of members. The six Societies scheduled 1389 papers at 140 scientific sessions, with an additional 153 papers read by title. Of this total, 522 were in Physiology, 454 in Biochemistry, 281 in Pharmacology, 84 in Pathology, 99 in Nutrition, and 102 in Immunology. In addition, eight symposia and panel discussion sessions were held by the Societies, and a special session presented nine motion pictures.

The Joint Session of the Federation was held on Tuesday evening, April 7, with Vincent du Vigneaud, Past President of the American Society of Biological Chemists and Chairman of the Federation Board, presiding. Three papers were presented on the general topic, "Some Aspects of Light and Biology." E. Newton Harvey of Princeton University spoke on bioluminescence as observed in various evolutionary forms. George Wald of the Harvard Biological Laboratories discussed the mechanisms of vision. The third paper, on photosynthesis, was presented by Dean Burk of the National Cancer Institute.

Another special Federation session took place on Thursday evening, April 9, to present a report on the Survey of Physiological Science which is currently being made by the American Physiological Society, with support from the National Science Foundation. R. W. Gerard of the University of Illinois Psychiatric Institute, Chairman of the session, gave a short introductory address by way of orientation. This was followed by a progress report presented by L. M. N. Bach, Director of the Survey. Physiology in education was discussed by Orr E. Reynolds for the undergraduate and graduate schools and by J. H. Comroe for the professional schools. An evaluation of the personality patterns of experimental biologists was presented by Anne Roe, research psychologist, of New York City.

The Federation Board and the Councils of the constituent Societies met throughout the week, and Society meetings were held for the election of officers and members and the transaction of business. Dinners were scheduled for the Pharmacology, Pathology, and Nutrition Societies, and a joint smoker by the Biochemistry and Nutrition Societies was held on Wednesday evening, April 8. In addition, various other groups scheduled special meetings and dinners.

The Federation Placement Service scheduled interviews between employers and applicants and registered applicants for future openings. About 350 applicants were registered and 590 interviews scheduled by the Service at Chicago.

Exhibits by industrial firms, Society members, and institutions and laboratories were displayed in the Exhibit Hall at the Conrad Hilton Hotel, and proved to be of uniformly high quality and a most interesting feature of the convention. The fields represented included books, pharmaceuticals, apparatus and equipment, and technical demonstrations.

For the year beginning July 1, 1953, the American Society for Pharmacology and Experimental Therapeutics will be head Society of the Federation and its immediate Past President, K. K. Chen of the Lilly Research Laboratories, will be Chairman of the Federation Board; other Board members for the coming year will be: H. B. Haag and C. C. Pfeiffer, Pharmacology; C. C. Erickson and S. C. Madden, Pathology; C. A. Elvehjem, J. O. Orten, and P. L. Day, Nutrition; T. P. Magill, J. L. Sugg, and J. F. Enders, Immunology; E. F. Adolph, H. E. Essex, and E. M. Landis, Physiology; D. W. Wilson and Philip Handler, Biochemistry. M. O. Lee was reappointed Federation Secretary.

The next annual meeting of the Federation will be held in Atlantic City, New Jersey, April 10–16, 1954.

M. O. LEE

*Federation Secretary*

## Scientists in the News

**Fritz G. Arndt** of the University of Istanbul, Turkey, will be Visiting Professor of Chemistry at Indiana University during the first semester of the 1953–54 academic year.

**George W. Beadle,** Professor of Biology and Chairman of the Division of Biology at the California Institute of Technology, has been awarded the Gold Medal of the Emil Christian Hansen Foundation, Copenhagen, Denmark. The medal, which is accompanied by a prize of 5000 Danish crowns, has been awarded only 11 times since its inception in 1914. Recipients have been European and American scientists who have made significant contributions to microbiology. Professor Beadle received the award for his research in biochemical genetics using the red bread mold *Neurospora.*

**Raimon L. Beard** of the Connecticut Agricultural Experiment Station, formerly Executive Secretary of the Insect Control Committee of the U. S. National Research Council, has arrived in Australia to carry out research on insect diseases at the Commonwealth Scientific and Industrial Research Organization, Division of Entomology, Canberra. Under a Fulbright Fellowship, Dr. Beard will study the larvae of the cockchafer beetle, and search for bacterial diseases which attack the larvae, examining the possibility of using diseases as a means of controlling these pests.

**M. S. Briscoe,** Assistant Professor, School of Medicine, Howard University, will collaborate this summer with the U.S. Naval Medical Research Unit No. 3 in Egypt on parasitological and entomological problems.

**Carl Djerassi,** Associate Professor of Chemistry at Wayne University, has been awarded an Honorary Doctor of Science degree by the University of Mexico. Until 1952, Dr. Djerassi was Associate Director of organic research at the Syntex Laboratories in Mexico City. He was one of the group of scientists who discovered the reactions making possible the first total synthesis of cortisone. The group also was able to convert materials found in the giant Mexican yam to cortisone. Dr. Djerassi has received a $10,000 grant from the Rockefeller Foundation for research on natural plant life.

**David R. Goddard,** Professor of Botany at the University of Pennsylvania, has been elected Editor-in-Chief of *Plant Physiology,* the journal of the American Society of Plant Physiologists.

At McGill University, **Alton Goldbloom** has been named Professor Emeritus of Pediatrics and **Alan Ross** has been made Professor of Pediatrics. Both have received appointments at the Children's Memorial Hospital, Montreal—the first as Consulting Physician, and the second as Physician-in-Chief.

**Howard B. Hutchinson,** meteorologist and recently retired Captain of the U. S. Navy, has joined the Stanford Research Institute as a staff physicist. Mr. Hutchinson served from 1948 to 1952 as scientific and technical advisor to the Navy Deputy Chief of the Armed Forces Special Weapons Project of the Department of Defense, and supervised 14 field parties at the Eniwetok proving grounds.

**Charles L. Leedham,** Colonel, U.S. Army Medical Corps, has been appointed Chief of the Education and Training Division, Office of the Army Surgeon General, Washington, D. C. During his 24 years of military service, Colonel Leedham has held posts both in the United States and abroad, and for the past 2 years he has served as Medical Consultant for the Far East Command.

**Margaret Mead,** Associate Curator of Ethnology at the American Museum of Natural History, has left for the Admiralty Islands, where she will make a study of the cultural changes that have taken place during the last twenty-five years. In 1928 Dr. Mead made an intensive study of a group of children in the Admiralties; now she is returning to observe these children as adults. The first anthropologist to undertake detailed research on the children of a particular society, Dr. Mead will use new sound recording and photographic equipment in this study. The expedi-

tion is being conducted under the auspices of the American Museum with a grant from the Rockefeller Foundation.

**Emil Ott,** Director of Research for Hercules Powder Company, is in Europe as a delegate from various U.S. scientific organizations at a series of international science meetings. He is serving as an official representative at the 26th International Congress of the Société de Chimie Industrielle in Paris, the 72nd annual general meeting of the Society of Chemical Industries, and the International Congress of Pure and Applied Chemistry. He will also attend a special meeting of the UN Food and Agricultural Organization.

**Gilbert F. Otto** has resigned as Associate Professor of Parasitology at Johns Hopkins University School of Hygiene and Public Health to become head of a new Department of Parasitology in the Research Division of Abbott Laboratories at North Chicago, Ill. Dr. Otto's general field of research for the past 26 years has been worm diseases in animals and people. He has been a member of the Johns Hopkins faculty since 1927 and Director of the Parasitology Laboratory and Parasitologist to the Medical Clinics at Johns Hopkins Hospital since 1946.

**Lloyd E. Swearingen,** Director of Basic Sciences Research, and Scientific Assistant Deputy, Assistant Chief of Staff, G4, for Research and Development, Department of the Army, has been named Vice President in charge of Research and Development, University of Oklahoma.

## Education

A series of 10 short postgraduate courses will be conducted by the **Army Medical Service** during the fiscal year 1953–54. An important feature of inservice training for Medical Corps officers, these courses are also open to a certain number of civilian physicians and surgeons. Information may be obtained from the Office of the Surgeon General, Department of the Army, Personnel Division, Washington 25, D. C. Officers are requested to apply through channels.

In an unprecedented coordination of several sciences, **Columbia University** has combined the resources of three of its Faculties (Pure Science, Political Science, and Medicine) in an Institute of Human Variation, to attack some basic problems of evolution—what biological factors are responsible for variation in human beings and what are the processes by which changes occur in populations, human and otherwise. Genetics, zoology, anthropology, pediatrics, psychology, serology, and statistics contribute to the study of these problems and to the training of research experts to advance the work in this field. The three main areas of present work are the factors concerned in variations in physique, the serological and physical variations within and between groups, and the physiological and chemical variations among human beings. A. E. Mourant of the Lister Institute, London, is serving the Institute as Visiting Professor of Serology. Philip Levine, Director of Ortho Research Foundation, is a staff member and research associate. The Director of the Institute is L. C. Dunn, Professor of Zoology.

Twenty undergraduate scholarships will be offered annually by the **Institute of Gas Technology,** an affiliate of Illinois Institute of Technology, to help train engineers for careers in the utility gas industry. They are available to students who have completed their sophomore year and who desire to take the gas technology option in either chemical or mechanical engineering at I.I.T. The scholarships will pay one-half of the tuition during the junior and senior years, plus $300 for the required 12-weeks' summer term between the two years. Applications are now being accepted for the first 20 scholarships which begin in September 1953.

Faculty promotions at **Lehigh University** include: Arthur F. Gould, from Associate Professor to Professor of Industrial Engineering; Douglas E. Mode, from Associate Professor to Professor of Electrical Engineering; Lynn S. Beedle, from Assistant Professor to Associate Professor of Civil Engineering and Mechanics; and Thomas S. Eichelberger, from Instructor to Assistant Professor of Mechanical Engineering.

Approximately 120 teachers and educational administrators are registered with the **New York University School of Education** for their three overseas workshops in July and August. The seminar in England, France, and Germany will be concerned with the political and socioeconomic problems of Western Europe and the role education is playing in equipping citizens to help solve them. The second course includes a tour of Israel, designed to give a knowledge of its geography, industry, agriculture, settlements, social life, and archeological excavations. The third workshop, in Puerto Rico, will study the life and customs of the island and the problems of adaptation and adjustment of its children who come to the mainland. The New York City teachers participating in the Puerto Rico workshop are winners of maintenance scholarships provided by the Puerto Rican government in cooperation with NYU and the University of Puerto Rico.

Seven members of the scientific faculty at **Stevens Institute of Technology** have been promoted. Advanced from Associate Professor to Professor were Arthur Lesser, Jr., who becomes Alexander Crombie Humphreys Professor of Industrial Engineering, and Carl Neitzert, Professor of Electrical Engineering. Promoted from Assistant to Associate Professor were Adam Abruzzi, Industrial Engineering; Reuben Benumof, Physics; and Edward Peskin, Electrical Engineering. James J Lawlor, Machine Design, and

John E. Nankivell, Physics, formerly Instructors, were named Assistant Professors.

Three new appointments have been made to the **University of Illinois** faculty. Sam S. Barkulis of Western Reserve University has been named Assistant Professor of Biological Chemistry in the College of Medicine. Joseph Larner of Washington University School of Medicine has been made Assistant Professor of Biochemistry. Norman F. Oebker of Cornell University was named Assistant Professor of Horticulture.

## Grants and Fellowships

Fourteen unclassified physical research contracts with universities and private research institutions, awarded by the **U.S. Atomic Energy Commission,** are part of the AEC's continuing policy of assisting and fostering private research and development to encourage maximum scientific progress in fields related to atomic energy. All contracts are for basic research.

The institutions under contract, the titles of the research, the individuals who will conduct the research, and the amounts awarded are listed below.

*Brown University,* Precision Measurements of Neutron Interactions, R. A. Peck, Jr., $17,469; *University of California,* Research on Fluorocarbons Solutions, R. L. Scott, $10,435; *University of Chicago,* Research on the Structure and Properties of Graphite, L. Meyer, $13,471; *Columbia University,* Ion Exchange Chromatography, W. A. Selke, $2,474; *University of Connecticut,* Inelastic Scattering of Neutrons, S. S. Friedland, $36,422; *Florida State University,* Search for Long-Lived Radioactivities and Including Theoretical Nuclear Studies, R. K. Sheline, $10,442; *George Washington University,* Studies of Fluorides of the Rare Earth Elements, C. R. Naeser, $5,115; *Indiana University Foundation,* Electrochemical Research in Amine Solvents, W. B. Schaap, F. C. Schmidt, $13,290; *Ohio State University Research Foundation,* Modification of the 42″ Cyclotron, H. Hausman, $2,600; *Pennsylvania State College,* Neutron Single Crystal Structure Analysis, R. Pepinsky, $8,829; *Purdue Research Foundation,* Studies in Molecular Spectroscopy, W. F. Edgell, $29,800; *University of South Carolina,* Use of Carbon-14 in a Study of Allylic Fluorination, H. W. Davis, $1,776; *Western Reserve University,* Thermodynamic Properties of Gases Adsorbed on Solids, E. L. Pace, $10,780; *Yale University,* High Energy Physics, H. L. Kraybill, E. C. Fowler, $30,348.

The **Committee on Growth** of the **National Research Council,** acting for the American Cancer Society, is accepting applications for grants-in-aid in support of cancer research. Applications for new grants received before Oct. 1 will be considered during the winter and grants recommended at that time will become effective July 1, 1954.

The Committee feels that a clear understanding of cancer must rest upon a deeper insight into the nature of the growth process, normal and malignant. Therefore, the scope of the research program is very broad and includes, in addition to clinical investigations on cancer, fundamental studies in the fields of cellular physiology, morphogenesis, genetics, virology, biochemistry, metabolism, nutrition, cytochemistry, physics, radiobiology, chemotherapy, endocrinology and environmental cancer.

During the past year the Society, on recommendation of the Committee on Growth, has awarded approximately 250 grants totaling more than $1,700,000. A program of similar magnitude is contemplated for the coming year. Additional information may be obtained from the Executive Secretary, Committee on Growth, National Research Council, 2101 Constitution Ave., Washington, D. C.

The Travel Committee of the **Genetics Society of America** has raised a sum of money to assist members to attend the 9th International Congress of Genetics which will be held in Bellagio, Italy, Aug. 24–31, 1953. Contributing organizations include: National Science Foundation; American Cancer Society; Damon Runyon Memorial Fund for Cancer Research; Rapkine French Scientist Fund; Kimber Farms, Niles, Calif.; Nicholas Poultry Farm, Kingston, N. H.; Carworth Farms, New City, N. Y.; DeKalb Agricultural Assoc., Ill.; Ferry Morse Seed Co., Detroit; Associated Seed Growers, New Haven; Dover Publications, New York; W. H. Freeman & Co., Publishers, San Francisco; New American Library of World Literature, New York; Eli Lilly & Co., Pharmaceuticals, Indianapolis.

Each of the following 37 members of the Society has been granted a travel award of $300, according to W. R. Singleton, Chairman of the Award Committee: NSF Grants—David Bonner, Meta Brown, Hampton L. Carson, Ernst Caspari, Ruth V. Dippell, Allen S. Fox, Joseph C. Gall, Eldon Gardner, Melvin Green, R. P. Levine, C. P. Oliver, A. H. Sparrow, Kathryn F. Stein, Mildred Swann, and Bruce Wallace. Other Funds—Vernon Bryson, W. J. Burdette, C. R. Burnham, J. W. Cameron, Herman Chase, Norman Giles, H. B. Glass, Aloha Hannah, William Hovanitz, Walter Landauer, Harlan Lewis, J. B. Lush, Helen U. Meyer, Herschel Mitchell, Mary Mitchell, F. J. Ryan, George Snell, Tracy Sonneborn, Clyde Stormont, Herluf Strandskov, I. Juan Valencia, and Henry Vogel.

In addition, more than one hundred other American geneticists have expressed their intentions of attending the Congress. One group of more than 20 will sail on the M/V *Georgic* on July 22. The President of the Congress will be Professor Richard Goldschmidt of the University of California, who receives $500.

Five **Merck Senior Postdoctoral Fellowships in the Natural Sciences** have been awarded through the National Research Council. The fellowships are granted for the purpose of giving advanced education and training to young scientists in physics, chemistry, or biology, who wish to broaden their fields by acquiring familiarity with other areas. The five fellows and the institutions at which they will study are: Paul J. Allen, University of Sheffield; Donald H. Bucklin, Harvard University; Edwin W. Fager, Oxford University; Morgan Harris, Université de Paris; and Robert G. Parrish, Cambridge University.

Twelve Postdoctoral Fellowships in the Natural Sciences have been awarded for 1953–54 by the **National Research Council,** supported by the **Rockefeller Foundation.** Winners and the institutions at

which they will study are: Paul W. Berg, Stanford; Stephan A. Berko, Princeton; Joseph B. Griffing, University of Cambridge; Donald G. Higman, McGill; Lionel F. Jaffe, Hopkins Marine Station; Rolf W. Juhle, University of California at Berkeley; Arthur K. Kerman, California Institute of Technology; Frederick M. Richards, Carlsberg Laboratorium; Zevi W. Salsburg, University of Amsterdam; Edgar W. Warnoff, Birkbeck College, University of London; Joe L. White, Rothamsted Experimental Station, Harpenden, England; and William N. White, California Institute of Technology.

## Meetings and Elections

The **American Fern Society** announces the following program of meetings and field trips to be held during the next three months. These meetings are open to anyone interested in the study of ferns. Bulletins are now available for the two longer field tours for which registration should be made at least three weeks in advance.

July 18. New Canaan Bird Protective Society, New Canaan, Conn. For information address Miss Alice Bristow, Silvermine Road, Norwalk, Conn.
Aug. 14–19. In New York State: Pilot Knob, Lake George, Wilton, Paradox Lake, Ausable Chasm, Lake Champlain; in Canada: St. John and Montreal. For information address R. C. Benedict, Pilot Knob, N. Y.
Aug. 30–Sept. 5. Central and Northern Michigan. For information address Mrs. Kathryn E. Boydston, Niles, Mich.
Sept. 7–8. Madison, Wis., in association with the American Institute of Biological Sciences, papers and one-day field trip. For information address Dr. Herbert Clarke, University of Wisconsin, Madison.

The **Society for Investigative Dermatology** has elected the following officers for the year 1953–54: president, Arthur C. Curtis, University Hospital, Ann Arbor, Mich.; vice president, Francis W. Lynch, 1466 Lowry Medical Arts Bldg., St. Paul, Minn. Herman Beerman was reappointed designate of the Society to the AAAS. The 1954 meeting will be held June 19–20, 1954, at the Clift Hotel, San Francisco.

The **Society of Rheology** will hold its annual meeting at the Hotel New Yorker, October 29–30, 1953. The Program Committee invites contributions from members of the Society and from others who are interested in rheology. Papers on fundamental studies of flow, plasticity, elasticity, and viscoelastic phenomena are among those which are appropriate, as are contributions dealing with practical applications of rheology, and those describing pertinent instrumentation. Correspondence concerning papers should be sent to John H. Elliott, Chairman, Program Committee, Hercules Experiment Station, Wilmington, Delaware.

A 10-nation conference of fisheries and oceanographic experts was held in May at **Yale University.** A. Vedel Taning of the Danish Institute for Fishery Investigations, G. Rollefsen of the Institute for Marine Research at Bergen, Norway, and Herbert W. Graham and Clyde C. Taylor of the U. S. Fish and Wildlife Service read papers pooling evidence that the North Atlantic is in the midst of its warmest period in hundreds of years. Definite steps were taken to set up a research program into Atlantic atmospheric and temperature conditions for the future. The Conference chose Halifax, Nova Scotia, as the site of its permanent headquarters.

## Miscellaneous

Two $1000 **AAAS-George Westinghouse Science Writing Awards** will be made for the outstanding science stories of the 1952 contest year. Awards are made in two classes—magazine and newspaper science writing. Financed by a grant from the Westinghouse Educational Foundation, the awards will be presented at the AAAS meeting in Boston. Magazine entries must have appeared in nontechnical publications widely read by the lay public, and in both competitions only entries that have been published between Oct. 1, 1952, and Sept. 30, 1953, will be considered. Newspaper writers must submit two separate science stories in addition to the one they designate as their entry. Inquiries should be addressed to AAAS-George Westinghouse Science Writing Awards, 1515 Massachusetts Ave., N.W., Washington 5, D. C.

Recent foreign visitors at U. S. government agencies included: at the **Bureau of Agricultural and Industrial Chemistry's Eastern Regional Research Laboratory,** Philadelphia; Nobuyo Shigemastsu, Tokyo; Walther Fachmann, Duisdorf; S. W. Souci, Munich; H. Phillips, Surrey, Eng.; and P. Chambard, Lyon, France; at the **National Bureau of Standards:** S. D. Sinvhal, Lucknow; Evert Jan Post, The Hague; H. T. Mitchell, London; Marwan Nasr, Beirut; Peter A. King, Manchester; R. de Strycker, Louvain; Koji Ohya, Shuichi Kan, and Akira Aoki, Osaka; Koichino Obama, Kawasaki; Gustavo Jacobsthal, Guatemala; Holde B. Levi, Copenhagen; C. B. Venton, Queensland; Frank Gill, London; and H. G. Kuessner, Göttingen.

The **National Geographic Society** has completed the largest map-making project in the 55-year history of its cartographic section, as a result of which a new 10-color historical map of the United States is being distributed. The map is $41 \times 26\frac{1}{2}$ inches in size, and is being distributed with the June issue of the *National Geographic Magazine.*

The following rare chemicals are wanted by Armour Research Foundation of Illinois Institute of Technology, **Registry of Rare Chemicals,** 35 West 33rd Street, Chicago: Ruthenium nitrate; Niobium nitrate; Di-tert.-butyl magnesium; 2,4′-Diphenic acid; Hydrazine nitrate; 2,4,4-Trimethylpentanone-3; 4-Chloroproline; 3-Amino-2-naphthoic acid; 3-Nitro-2,5-dichlorothiophene; 8-Octadecene; Tetramethylethylene oxide; 2-Methyl-5-vinylpyridine; 2-Methylpentanal; 1,7-Dimethylxanthine; Peroxidase; Sphingosine sulfate; Pyocyanine; Urobilin; Zymosterol.