

# NEWS

## and Notes

**Marshall Brucer**, assistant professor of physiology at the University of Texas School of Medicine, has been selected to direct the cancer research program of the Oak Ridge Institute of Nuclear Studies. In his new position as chairman of the Medical Division Dr. Brucer will direct a long-range program devoted to the study of the treatment of cancer and other malignant diseases, together with the training of medical and research personnel in new techniques.

**Marston Taylor Bogert**, professor emeritus of organic chemistry, Columbia University, and consultant and adviser to Evans Research and Development Corporation of New York City, has been appointed Charles Frederick Chandler lecturer and medalist at Columbia for the current academic year.

**Frank W. Schaller**, formerly associate professor of agronomy at West Virginia University, became research associate professor at Iowa State College on January 1.

**Leonard F. Kellogg** joined the Iowa State College faculty as professor of forestry January 1. He has been silviculturist at the Central States Forest Experiment Station, assigned to the College.

**Ira A. Gould**, professor of dairy manufacturing at the University of Maryland, has been appointed chairman of the Department of Dairy Technology at Ohio State University, effective February 1.

**Henry W. Meyerding**, professor of orthopedic surgery at the Mayo Clinic and president-elect of the U. S. Chapter of the International College of Surgeons, recently returned from Europe. While abroad he presided at the Fourth Congress of the International Society of Orthopedic Surgery and Traumatology in Amsterdam and also took part in the program. Later he gave the opening address at the

Congress of the Czechoslovak Society of Orthopedic Surgery and Traumatology in Prague and was made an honorary member of that Society. He then attended meetings of the French Society of Orthopedic Surgery and Traumatology and the French Society of Surgery in Paris, where he was made an honorary member of the latter Society. Honorary membership in the Netherlands Orthopedic Association was also extended to him at a congress held in Amsterdam this year.

**John W. Gowen** has been named head of the Genetics Department at Iowa State College. Dr. Gowen, associated with Iowa State since 1937, succeeds **E. W. Lindstrom**, who died November 8.

**O. Hobart Mowrer**, research professor of psychology in the University of Illinois Graduate College, was recently appointed to the newly created post of director of the Psychological Clinic.

**Edwin J. Cohn**, chairman of the Department of Physical Chemistry, Harvard Medical School, has been chosen to deliver the Julius Stieglitz Memorial Lecture for 1949 at the forthcoming meeting of the Chicago Section of the American Chemical Society in the University of Chicago Kent Chemical Laboratory on Friday, January 14, at 8 P.M. Dr. Cohn will speak on "Interactions of Proteins With Each Other, With Cells, and With Smaller Molecular Components of Biological Systems."

**Walter J. Peterson** became head of the Chemistry Department, North Carolina State College, on January 1. Dr. Peterson, former head of the Nutrition Section of the Animal Husbandry Department, succeeds **Arthur J. Wilson**, who died November 11.

**Warren Ambrose**, **Norman Levinson**, and **Henry Wallman**, of the Mathematics Department, Massachusetts Institute of Technology, are at present on leave of absence. Prof. Ambrose, who is at the Institute for Advanced Study, and Prof. Levinson, who is at the University of Copenhagen, are both working under Gugenheim fellowships; Prof. Wallman, meanwhile, is acting as visiting profes-

sor of teletechnics at the Chalmers Institute of Technology in Gothenburg, Sweden.

**W. D. Cairns**, professor emeritus of mathematics at Oberlin College, is serving as part-time lecturer in mathematics at the California Institute of Technology for the present academic year.

**Emil Witschi**, who is on leave from the Department of Zoology, State University of Iowa, and is at present working at the University of Tübingen, has been made an honorary member of the Société d'Endocrinologie de Paris.

### Visitors to U. S.

**B. R. Seth**, of Hindu College, Delhi, India, will be serving as visiting professor of applied mathematics at Iowa State College during the current year and will give courses in elasticity and hydrodynamics in the winter and spring quarters.

**W. H. J. Fuchs**, of the University of Liverpool, is serving as visiting associate professor of mathematics at Cornell University for the current academic year.

### Awards

The **John Scott Award**, established by the Scotch chemist of the same name who died in 1816, to be awarded to "ingenious men and women who make useful inventions," was conferred December 15, at Girard College, Philadelphia, on **Merle A. Tuve**, director of the Department of Terrestrial Magnetism, Carnegie Institution of Washington. Dr. Tuve was named to receive the award for his outstanding contribution to the development of the proximity fuse during World War II. Former recipients of the award, which is usually in the amount of \$1,000, include **Madame Curie**, **Thomas Edison**, **Guglielmo Marconi**, **Lee DeForest**, and **Irving Langmuir**.

**Carl S. Miner**, founder and director of the Miner Laboratories, Chicago, has been awarded the 1949 Perkin Medal of the American Section, Society of Chemical Industry, for the work of his laboratory in developing the furfural industry. Furfural, a

chemical derivative of oat hulls and other agricultural wastes, is widely used in the manufacture of plastics. Mr. Miner will receive the Medal January 7 at a dinner at the Hotel Commodore, New York, jointly sponsored by the Society of Chemical Industry, the New York Section of the American Chemical Society, the American Institute of Chemical Engineers, and the Electrochemical Society. His address, as the 43rd medallist, will be "Science vs. Starvation."

**W. L. Waterhouse**, University of Sydney, has been awarded the 1949 Medal of the Federal Council of the Australian Institute of Agricultural Science for his service to Australian agriculture during the past 10 years.

## Fellowships

**The RCA Predoctoral Fellowships in Electronics** are designed to give special graduate training and experience to young men and women who have demonstrated marked ability in the general field of electronics, either as a branch of electrical engineering or as a part of the general field of physics.

A Fellow must be a citizen of the United States who has demonstrated ability and aptitude for advanced work and who has training in electronics equivalent to that represented by one year beyond the bachelor's degree in a university of recognized merit in this field.

Fellowships will be awarded at a regular meeting of the RCA Fellowship Board to be held in March 1949. To receive consideration for tenure during the academic year 1949-50, applications must be filed on or before *February 1, 1949*. Unless otherwise arranged, tenure will begin in September 1949.

**The National Foundation for Infantile Paralysis**, 120 Broadway, New York City 5, has announced the availability of a limited number of post-graduate fellowships in several fields. These include: (1) research fellowships, to be awarded in virology, orthopedic surgery, pediatrics, epidemiology, and neurology, which are intended to emphasize advanced training in the basic sciences as they apply to the particular specialty and to research,

and experience in research not necessarily related to poliomyelitis; (2) clinical fellowships, which are available to physicians who wish to prepare for eligibility for certification by the American Board of Physical Medicine; and (3) fellowships, which are available to physicians for one year of post-graduate study leading to a Master of Public Health degree at a school of public health approved by the American Public Health Association.

Application and requests for further information may be made to the National Foundation at any time during the year. Awards are based on the individual needs of each applicant.

A project for the study of the fundamental principles of flameproofing has been established in the Department of Chemical Engineering, Columbia University, New York, jointly by the Textile Section of the Quartermaster Corps and the Office of Naval Research. During World War II a similar war research project, under the sponsorship of the Quartermaster Corps, was maintained at Columbia for a study of improved methods for flameproofing and, as a result of some of the work of the earlier project, it has been decided to make a more thorough investigation of the various mechanisms whereby certain fire-retardant chemicals prevent the combustion of cellulose and other types of textile fibers.

Two positions as research assistants are available in the Department of Chemical Engineering under this project. These will permit credit for the researches under the project to be acceptable for the requirements of the Ph.D. degree. The research assistantships, which are open to qualified applicants who possess a Master's degree in chemical engineering or chemistry, carry a salary of \$200 per month for a 40-hour week. This would permit part-time course study in conjunction with the work of the project in order to meet the course requirements for the Ph.D. degree. Applicants interested in appointment as research assistants under the project should communicate with Prof. James M. Church, of the Department of Chemical Engineering, who is in charge of the project, stating fully their qualifications as to training and experience.

## Colleges and Universities

**The M. W. Welch and R. E. Welch Science Teachers Workshop** at Purdue University will be dedicated in ceremonies to be held in the Physics Building January 8. Karl Lark-Horovitz, head of the Physics Department, will introduce C. H. Robertson, of the physics staff, who will speak on "The Experiment in the Teacher Training Program." Following a dinner in the Purdue Memorial Union, Louis M. Stark, manager of the School Service department of Westinghouse Electric Corporation, will give an address entitled "The Enrichment of Science Instruction."

**Carnegie Institute of Technology** has announced the reopening of a \$4,000,000 campus building and renovation program. A \$1,000,000 wing will be built onto Engineering Hall, and over \$1,000,000 will be spent on a power plant and a steam and electricity distribution system. In addition, there will be extensive revamping and renovation of available space in existing buildings of the Colleges of Engineering and Science, Fine Arts, and Margaret Morrison Carnegie College. In announcing the program, President Doherty stated that not a single building had been added to the campus since completion of the original plant in the early 1900s.

## Meetings and Elections

**A Conference on High-Frequency Measurements** will be held January 10-12 in Washington, D. C., under the joint sponsorship of the American Institute of Electrical Engineers, the Institute of Radio Engineers, and the National Bureau of Standards. In addition to tours of the Naval Research Laboratory, the Naval Ordnance Laboratory, and the National Bureau of Standards, the program will include four technical sessions—"Measurement of Frequency"; "Measurement of Power and Attenuation"; "Measurement of Impedance"; and "Measurement of Noise, Antenna Measurements." The auditorium of the Department of Interior has been made available for these meetings. Those planning to attend the sessions must register Monday morning, January 10, at the Roger Smith Hotel, head-

quarters for the conference. Chairman of Local Arrangements is Harold Lyons, National Bureau of Standards, Washington D. C.

**The American Society of General Physiologists** is holding its next regional meeting on February 5 at New York University, Washington Square, under the auspices of the Biology Department of the Graduate School. The main speakers will be Keith Porter and Parker Vanamee, Robert Chambers, Harold Blum, Eric Ponder, Curt Stern and Alexander Sandow, and Arthur J. Kahn, and all the papers will deal with cell structure and function.

**A Symposium on Molecular Structure and Spectroscopy** will be held at the Mendenhall Laboratory of Physics, Ohio State University, June 13 through June 17, 1949. The interpretation of molecular spectroscopic data as well as methods for obtaining such data will be discussed, and there will also be sessions devoted to those phases of spectroscopy of current interest. A dormitory will be available for those who wish to reside on the campus during the meeting. Further information and copies of the program when they become available may be obtained by writing to Prof. Harald H. Nielsen, Mendenhall Laboratory of Physics, Ohio State University, Columbus 10, Ohio.

**At the 286th anniversary meeting of the Royal Society**, held November 30, the following officers and members of the Council were elected for the ensuing year: Sir Robert Robinson, president; Sir Thomas Merton, treasurer; Sir Edward Salisbury and D. Brunt, secretaries; E. D. Adrian, foreign secretary; J. D. Bernal, G. R. Cameron, Sir James Chadwick, S. Chapman, H. Davenport, Sir Frank Engledow, W. E. Garner, A. C. Hardy, C. H. Kellaway, G. F. Marrian, Sir William Stanier, H. G. Thornton, C. E. Tilley, A. E. Trueman, and S. Zuckerman, members of the Council. Sir Alfred Egerton, having completed 10 years as physical secretary, is succeeded by D. Brunt.

**A Symposium on the Quantum Requirement in Photosynthesis** was held December 18 on the University of Illinois campus. Oswald Tippo,

chairman of the Department of Botany, reports that the participants included Farrington Daniels, of the Department of Chemistry, University of Wisconsin; J. F. Stauffer, of Wisconsin's Department of Botany; Otto H. Warburg, director of the Kaiser Wilhelm Institute of Cell Physiology, Berlin, and now visiting professor at Illinois; R. Rieke, Department of Physics, Purdue University; Barry Commoner, Department of Botany, Washington University, St. Louis; Martin Kamen, Institute of Radiology, Washington University; C. S. French, director, Carnegie Institution Laboratory of Biology, Stanford, California; Allan H. Brown and A. W. Frenkel, Department of Botany, University of Minnesota; Hans Gaffron, Department of Chemistry, University of Chicago; and Robert Emerson, Eugene Rabinowitch, and Victor Schocken, of the Photosynthesis Project, Department of Botany, University of Illinois. This symposium was arranged to discuss the discrepancies which have been reported in the quantum requirement of photosynthesis. According to Dr. Tippo, Dr. Warburg has found that 4 quanta are required, while Prof. Emerson and other American workers find that 10-12 quanta are required.

The symposium was followed by a series of critical experiments performed by Drs. Warburg and Emerson during the Christmas holidays. Dean Burke, National Cancer Institute, Bethesda, Maryland, and J. Z. Hearon, Department of Physiology, University of Chicago, were invited to the campus as scientific observers.

**The Technical and Scientific Book Publishers Group of the American Book Publishers Council, Inc.**, at an informal meeting in New York City on December 1, unanimously re-elected the following officers: Francis M. Turner, Reinhold Publishing Corporation, chairman; Maurits Dekker, Interscience Publishers, Inc., vice-chairman; and Ralph L. Newing, International Textbook Company, secretary.

## NRC News

**The needs of the American Type Culture Collection** is the subject of a study being made by a Committee of the National Research Council. The ATCC maintains pure "type" cultures

of many microorganisms and furnishes these to laboratories, hospitals, universities, and industries. With a limited income inadequate for its maintenance at the present time, the ATCC has been faced with the prospect of discontinuing or greatly restricting its functions and services. The new NRC Committee will attempt to develop a long-range plan for the support of the Collection on a permanent basis. The membership of the Committee is as follows: Henry Welch, chairman; Robert D. Coghill, George W. Irving, Kenneth B. Raper, Roger D. Reid, Waldo L. Schmitt, Joseph Smadel, Nathan R. Smith, and Norman H. Topping.

Meanwhile, there is urgent need for support of the ATCC for the year 1949 from organizations and individuals who are aware of the necessity of pure type cultures in the standardization of products, in research, and in teaching. Contributions to the ATCC may be sent to the National Research Council, National Academy of Sciences Building, 2101 Constitution Avenue, N. W., Washington 25, D. C., for use at the direction of the NRC Committee.

## Deaths

**Carl V. Woodbury**, 71, professor and head of the Physics Department, Norwich University, died December 13 in Northfield, Vermont. A Norwich faculty member for nearly 50 years, Dr. Woodbury had at one time also served as acting president.

**Victor Kurh**, 66, professor of philosophy at the University of Copenhagen, died December 15 in Copenhagen, Denmark.

**John Franklin Daniel, 3rd**, 38, professor of practical archaeology at the University of Pennsylvania and editor-in-chief of the *American Journal of Archaeology*, died of a heart attack December 17 at Ankara, Turkey.

**Philip S. Winnek**, 40, head of the Chemotherapeutic Research Department of the Maltine Company, Morris Plains, died in Morristown Memorial Hospital, Morristown, New Jersey, on December 18. As a former research chemist for the American Cyanamid Company, Dr. Winnek played a large part in developing the drugs sulfadiazine and sulfaguanidine.

**Hugh Scott Cumming**, 79, retired Surgeon General of the U. S. Public Health Service, died December 20 in Washington, D. C. Of the more than 40 years that Dr. Cumming was associated with public health work, he served as Surgeon General for 16 and directed the Service's growth from a comparatively unknown section of the Treasury Department to a bureau employing over 1,000 physicians. Recipient of many foreign honors, Dr. Cumming had also served as president of the Pan-American Sanitary Bureau.

**Frank M. Huntoon**, 67, author and former bacteriologist at the Cornell University Medical College, died December 21 in Syracuse, New York.

**The American Museum of Natural History** has just announced the return of the first major American expedition to remote Cape York Peninsula in Australia. This 1948 Archbold Cape York Expedition was sponsored by Richard Archbold, research associate of the Museum. Extensive and significant collections of mammals, plants, reptiles, and insects were made during the 7 months spent in the field. Among the 1,500 mammal specimens representing more than 50 species are bizarre spiny anteaters, unusual "flying mice," and a specimen of the elusive Bennet's tree-climbing kangaroo. Also included in the collections are 11,600 specimens of plants which are believed to be the first representative collection of plants of far northern Australia ever brought to this country.

**A new scientific journal**, aimed to provide southeastern engineers and scientists with their own medium for attacking common problems and recording research results, is to appear in January. Recording technological progress in 11 southeastern states, *The Journal of Southeastern Research* will be edited by H. McKinley Conway, Jr., according to the announcements from the Southeastern Research Institute, Inc., Atlanta, Georgia. Serving on the Advisory Board will be Dean O. V. Adams, Texas Technological College; Luis H. Bartlett, director, Engineering Experiment Station, Louisiana State University; J. W. Beams, chairman, Physics Department, Uni-

versity of Virginia; Dean George W. Branigan, University of Arkansas; J. H. Coulliette, director, Industrial Research Institute, University of Chattanooga; Dean Paul M. Gross, Duke University; Albert H. Holland, Jr., director of research and medicine, Oak Ridge National Laboratory; Dean Roger P. McCutcheon, Tulane University; E. B. Norris, director, Engineering Experiment Station, Virginia Polytechnic Institute; J. Stanton Pierce, head, Chemistry Department, University of Richmond; Wm. G. Pollard, director, Oak Ridge Institute for Nuclear Studies; Herman M. Roth, chief, Physics Research Division, Oak Ridge National Laboratory; Walter M. Scott, director, U. S. Department of Agriculture Southern Regional Research Laboratory; and Wm. G. Van Note, director, Engineering Experiment Station, North Carolina State College.

**A history of the development of radar**, prepared by the Office of Scientific Research and Development, under the direction of Henry E. Guerlac, now of Cornell University, is available to the public, according to a recent announcement by John C. Green, director of the Office of Technical Services, Department of Commerce. The 1,300-page *History of radar* in four parts may be inspected at the Library of Congress, Government Publication Room, and photostatic or microfilm copies may be obtained from the Library. The four parts, with prices for photostatic and microfilm copies, respectively, are: PB 93618, \$53.75, \$9.00; PB 93619, \$55.00, \$9.00; PB 93620, \$43.75, \$9.00; and PB 93621, \$13.75, \$4.50.

**Establishment of a radioisotope unit** has just been authorized by the Veterans Administration at the VA Hospital in Nashville, Tennessee. Research work planned at Nashville will be directed toward developing improved methods for clinical diagnosis and medical treatment of veteran-patients. Radiophosphorus, -sodium, -iron, and -iodine will be used initially in the work. George R. Meneely, assistant chief of medical services at the Hospital, who has had wide experience with the use of radioisotopes, will direct the work of the unit.

**Brookhaven National Laboratory** has announced the availability of reports on the Symposium on Radioiodine (BNL-C-5), held July 26-30, 1948, and the Conference on the Chemical Effects of Nuclear Transformations (BNL-C-7), held August 19-20, at prices of \$1.50 and \$.25, respectively. Checks or money orders should be made payable to Brookhaven National Laboratory, and requests should be directed to the Information Group, Information and Publications Division of the Laboratory, Upton, New York.

**Correction:** In "Radiocardiography: A New Method for Studying the Blood Flow Through the Chambers of the Heart in Human Beings," by Myron Prinzmetal, et al. (*Science*, September 24, p. 340), credit for the design and construction of apparatus should have been given Dr. Burton F. Miller instead of Dr. Robert Miller (footnote 2).

## Make Plans for—

**American Physical Society, Division of High-Polymer Physics**, January 27-29, Columbia University, New York City.

**5th Annual Conference on Protein Metabolism**, January 28-29, Rutgers University, New Brunswick, New Jersey.

**California Mosquito Control Association**, joint conference with American Mosquito Control Association, February 6-9, Claremont Hotel, Oakland, California.

## Recently Received—

**Nutritional Observatory**. Published quarterly and distributed gratis by the H. J. Heinz Company, Pittsburgh 30, Pennsylvania.

**The calcium requirement of adults**. (Borden's Review of Nutrition Research, Vol. IX, No. 9, November 1948.)

**Dyelines and Bylines**. An informal pamphlet published monthly by the American Cyanamid Company.

**Annual report of the Public Health Research Institute of the City of New York, Inc.**, July 1, 1947-June 30, 1948.

**Monsanto Magazine**, December 1948. Published by Monsanto Chemical Company, St. Louis, Missouri.