

NEWS and Notes

National Science Foundation. On March 18, the Senate passed S. 247, the "National Science Foundation Act of 1949." On the same date, the Public Health, Science, and Commerce Subcommittee of the House Interstate and Foreign Commerce Committee announced that hearings on the National Science Foundation bills will be scheduled for March 31, April 1, and April 4 at 10:00 a.m. As noted in the March 18 issue of *Science*, one of the chief purposes of the hearings is to familiarize new Subcommittee members with the legislation, but Congressman J. Percy Priest has invited all interested organizations and individuals to present their views.

By invitation of Congressman Priest, the Inter-Society Committee for a National Science Foundation will be represented by Dael Wolfe, secretary-treasurer of the Committee; and the AAAS will have Howard A. Meyerhoff, administrative secretary, and Raymond L. Taylor, assistant administrative secretary, present to answer any questions the House Subcommittee may ask. Such support as these three representatives can give to a National Science Foundation Bill will be greatly strengthened by letters from scientists addressed to members of the House Subcommittee (see *Science*, March 18, p. 295).

Members of the Subcommittee on Public Health, Science and Commerce have six bills before them for consideration. H. R. 12, 185, 311, 1845, and 2308 differ only in minor details from H. R. 6007 of the 80th Congress and from the Senate bill S. 247. Sponsors of these bills are: *For H. R. 12*, J. Percy Priest (6th District, Tennessee); *for H. R. 185*, Oren Harris (7th District, Arkansas); *for H. R. 311*, Charles A. Wolverton (1st District, New Jersey); *for H. R. 1845*, James E. Van Zandt (22nd District, Pennsylvania); *for H. R. 2308*, Wilbur D. Mills (2nd District, Arkansas). For all practical purposes these five bills may be considered as a single piece of legislation, which will receive the united support of their respective pro-

ponents. The only rival bill is H. R. 359, introduced by Emanuel Celler (15th District, New York). This bill closely follows the pattern set by S. 1850 of the 79th Congress, which, though supported by many of the nation's scientists, was the subject of vigorous controversy.

Only once (1947) has a National Science Foundation bill passed the House. If scientists wish to insure passage of a bill in 1949, it will help if they express themselves to their Congressmen, to the proponents of these six bills, and to the members of Mr. Priest's Subcommittee, not only in support of the Foundation, but also in regard to the kind of Foundation they want.

HOWARD A. MEYERHOFF

About People

Clark B. Millikan, professor of aeronautics, California Institute of Technology, has recently been named director of the Daniel Guggenheim Laboratory of Aeronautics and chairman of the Jet Propulsion Laboratory Board at Caltech.

Milan V. Novak has been appointed assistant dean of the Graduate College for the University of Illinois' Chicago Professional Colleges. Dr. Novak will continue to serve as professor of bacteriology and head of the Department.

J. William Hinton, a professor of clinical surgery on the New York University medical faculty since 1944, has been appointed professor of surgery at the Post Graduate Medical School, New York University-Bellevue Medical Center. Dr. Hinton will be director of the fourth surgical division at Bellevue and will continue as director of surgery at University Hospital.

Henry G. Booker, professor of electrical engineering at Cornell University, has been elected Honorary Fellow of the Geophysical Observatory, University of Alaska. This citation honors him for his work on microwave propagation and electromagnetic wave propagation in the upper atmosphere.

The National Bureau of Standards announces two appointments to the staff: **Charles A. Mabey**, former director of research for the Bristol Company, will supervise electronic miniaturization, circuits, and processes as

assistant chief of the Engineering Electronics Laboratory; and **Paul Wang**, former dean of the Physics Department, Shantung University, China, will do research in X-rays and nuclear physics, specializing in beta-tron and high-voltage equipment.

Douglass Poteat, former executive vice president of the American Cancer Society, has recently been appointed executive vice president of Memorial Hospital Center for Cancer and Allied Diseases in New York City.

Edward O. Hulburt, former superintendent of the Optics Division, Naval Research Laboratory, Washington, D. C., has been made director of research of the Laboratory.

Grants and Awards

The Institute of Medicine of Chicago is offering the Joseph A. Capps prize of \$400 for the best paper on a medical study or a problem closely related to medicine. The competition is open to graduates of Chicago medical schools who completed their internship or one year of laboratory work during 1947 or later. Manuscripts must be submitted to the Secretary of the Institute of Medicine of Chicago, 86 East Randolph Street, Chicago 1, not later than *December 31*.

The Commonwealth Fund has awarded an advanced medical fellowship to David Glick, associate professor of physiological chemistry, University of Minnesota Medical School, to study developments in histo- and cytochemistry at the Carlsberg Laboratory in Copenhagen and the Kaolinska Institute in Stockholm during the summer.

Elwood C. Zimmerman, associate entomologist, Experiment Station, Hawaiian Sugar Planters' Association, and curator of entomology, Bishop Museum, was awarded the 1948 literary prize of \$250 by the Friends of the Library of Hawaii for his five-volume work "Insects of Hawaii." This is the first time a scientific treatise has been given the award.

The Institute of Radio Engineers gave its Fellow Award this year to **John N. Dyer**, supervisor of radar and air navigation research and development for Airborne Instruments Laboratory, Mineola, Long Island, New York. Mr. Dyer was honored for his

contributions to radio, including polar expedition communications and war-time radio counter measures.

Sigma Delta Epsilon, national women's scientific fraternity, has awarded its \$1,200 predoctoral fellowship for 1949-1950 to **Irene T. Kline**, Western Reserve University, Cleveland, Ohio. Miss Kline is investigating possible relations of known vitamins to the biochemical mechanism of steroid hormone action.

The University of Pennsylvania has received \$100,000 from Lit Brothers, Philadelphia department store. A major portion of the gift will be used for the development of the University's new Medical Center. This latest donation brought the total gifts and pledges to the University's development fund to more than \$4,000,000.

Fellowships

The National Paraplegia Foundation is offering a limited number of fellowships for research in spinal cord disease and trauma and associated complications. These \$3,000 fellowships are open for the academic year 1949-1950 to any candidate who has demonstrated a capacity for medical research and has outlined a meritorious program of study. Application forms may be obtained from L. W. Freeman, Chairman, Medical Advisory Committee, National Paraplegia Foundation, Room 457, Hotel La Salle, Chicago 2, and must be submitted not later than *June 1*.

The **Jessie Horton Koessler Fellowship** of the Institute of Medicine of Chicago will be available September 1. Established for the aid of research in biochemistry, physiology, bacteriology, or pathology, the fellowship carries a stipend of \$500 a year, with the possibility of renewal for one or two years. Applications must be approved by the head of the department in the fields mentioned or by the director of a research institute or laboratory in Chicago, and must stipulate that the applicant will have adequate facilities for carrying out the proposed research. A letter presenting full information should be sent in quadruplicate to Paul R. Cannon, Committee Chairman, 950 East 59th

Street, Chicago 37, not later than *July 1*.

Colleges and Universities

Ohio State University College of Dentistry will hold a post-collegiate assembly April 27-28. Dental progress since World War II will be reviewed by members of the faculty, assisted by Charles Williams, University of Toronto, and Robert Hardy of Tufts Dental College.

The Massachusetts Institute of Technology is offering a new graduate program in analytical chemistry. Planned to meet new needs in industry and teaching, the course emphasizes instrumental methods, particularly radiochemical analysis. Assistantships and scholarships are available, and information may be obtained from the Head of the Department of Chemistry, Massachusetts Institute of Technology, Cambridge 39.

The University of Washington is conducting basic research toward developing a simple method for locating warm levels in extreme low-temperature areas. The investigation, carried on under a \$6,000 grant from the U. S. Army Quartermaster General's Office, will be used in locating arctic camps, supply dumps, and air fields. Phil E. Church, head of the department of meteorology and climatology is directing the study, and Robert G. Fleagle, assistant professor, is in charge of the preliminary work.

Vassar College has awarded full-year faculty fellowships to **Edward R. Linner**, associate professor of chemistry, and **Monica Healea**, associate professor of physics. Professor Linner will continue a study of absorption from solution, in England or Sweden, and Professor Healea will do research at Vassar in the field of secondary emission.

Summer Programs

Duke University Marine Laboratory, Beaufort, North Carolina, will open its twelfth summer session on June 14. Courses in marine algae and marine ecology will be offered during the first six weeks and courses in plant ecology and marine invertebrate zoology during the second six

weeks. They are open to graduate students and seniors only. Further information may be obtained from the Director of the Laboratory, Box 269, Beaufort, North Carolina.

The Oak Ridge Institute of Nuclear Studies' Special Training Division will conduct three basic courses in the techniques of using radioisotopes as tracers, June 6-July 1, July 11-August 5, and August 8-September 2. Thirty-two participants will be accepted for each course, and applications should be mailed prior to *June 1*. Forms and additional information may be obtained from Ralph T. Overman, Chairman, Special Training Division, Oak Ridge Institute of Nuclear Studies, P. O. Box 117, Oak Ridge, Tennessee.

The University of Michigan's summer symposium on contemporary physics will be held from June 27 to July 30. Guest lecturers will include: Luis W. Alvarez, University of California—"Recent Experiments in High Energy Physics," June 27-July 9; R. P. Feynman, Cornell University—"Problems in Quantum Electrodynamics," July 11-July 30; Frederick Seitz, Carnegie Institute of Technology—"Special Topics of the Theory of Solids," June 27-July 23; and G. B. B. M. Sutherland, Cambridge University—"Current Developments in the Infrared in the Physical, Chemical, and Biological Fields," July 5-July 30. Further information may be obtained from E. F. Barker, Chairman, Department of Physics, University of Michigan, Ann Arbor.

The **Roscoe B. Jackson Memorial Laboratory**, Bar Harbor, Maine, will hold its regular summer student training program June 22-August 30. Two concurrent 10-week courses in research problems, techniques, and progress in the field of growth or of behavior will be offered. Enrollment is limited to 22 students to be selected on the basis of scholarship and interest in particular fields. Further information may be had by writing to the Chairman, Summer Student Program, Jackson Laboratory, Bar Harbor, Maine. Applications must be in by *April 1*.

Meetings and Elections

Wilder Graves Penfield, professor of neurology and neurosurgery, McGill University, Montreal, will present the **Edward K. Dunham lectures** for the promotion of medical sciences, at Harvard Medical School, March 28 and 30, and April 1. His subject will be "The Cerebral Cortex of Man." The lectures, to which all interested professional persons are invited, will be held at 5:00 p.m. at the Harvard Medical School Amphitheater, Building D.

A conference on **Mathematical Models in the Social Sciences**, under the joint sponsorship of the Department of Mathematics and the Laboratory of Social Relations of Harvard University, will be held March 28 and 29, at 4 p.m. and 8 p.m., in Emerson Hall, Room D, Harvard University. Speakers will be N. Rashevsky, University of Chicago; John Von Neumann, Institute for Advanced Study; and Norbert Wiener, Massachusetts Institute of Technology.

The **American Mathematical Society** will hold its 445th meeting April 1-2, at Duke University, Durham, North Carolina. Sessions will be held in Rooms 114 and 117, Physics Building. Registration headquarters will be in the lobby of the Men's Union, West Campus. Hotel reservations should be made directly with the hotels.

The **Association of Geology Teachers** will hold its ninth annual meeting April 22-23 at Rosenwald Hall, University of Chicago. The program includes the presentation of papers on geological education and field excursions. Nonmembers wishing to attend should communicate with Katherine F. Greacen, Secretary, Department of Geology, Milwaukee-Downer College, Milwaukee.

Yale University's Silliman Memorial Lectures are being delivered this year by Ross G. Harrison, director emeritus of the University's Osborn Zoological Laboratory. The subject of the six lectures is "Organization and Development of the Embryo," and the forthcoming four

will be held at 4:30 p.m., March 25, 30, and 31, and April 1, in Stratheona Hall on the campus.

The Cardiovascular Study Section of the National Institutes of Health, Public Health Service, will hold a **Symposium on Water and Electrolyte Metabolism in Cardiac Edema** at Hotel Haddon Hall, Atlantic City, on April 30. E. Cowles Andrus, of Baltimore, is chairman of the section. Those who expect to attend should communicate with Eleanor M. K. Darby, Executive Secretary, National Institutes of Health, Bethesda, Maryland.

The **American Institute of Chemical Engineers** will hold its regional meeting May 9-11 at the Mayo Hotel, Tulsa, Oklahoma. The program includes four symposia on primary energy, chemicals from petroleum, oil and gas production, and chemical engineering economics. Additional information may be obtained from Clifton Frye, Research Department, Stanolind Oil and Gas Company, Tulsa.

David J. Finney, lecturer on the design and analysis of scientific experiment, University of Oxford, will give three lectures on "Statistical Principles of Biological Assay" at the U. S. Department of Agriculture Graduate School. The lectures, sponsored by the Department of Mathematics and Statistics, will be held June 3, 6, and 7 from 4:00 to 5:30 p.m. in the Jefferson Memorial Auditorium, South Agriculture Building, Washington, D. C. The public is invited.

The **Genetical Society of Great Britain** will hold its 100th meeting June 30-July 1, in Cambridge. Guest speakers will review the early days of genetics and demonstrate genetical work now in progress in Great Britain. All geneticists are cordially invited. Details may be obtained from the secretaries, G. Pontecorvo, Department of Genetics, The University, Glasgow, W. 2., and H. G. Callan, Institute of Animal Genetics, The University, Edinburgh 9.

Mining Engineers in San Francisco. In celebration of the centenary

of the Gold Rush, mining engineers, economic geologists, and metallurgists assembled in San Francisco February 13-17 for the 168th general meeting of the American Institute of Mining and Metallurgical Engineers. The Society of Economic Geologists met jointly with the Institute. Members of the U. S. Section of the Pan-American Institute of Mining Engineering and Geology gathered informally for luncheon, but arranged no special program.

William E. Wrather, treasurer of the AAAS, who has served the Institute as president during the past year and acted as presiding officer at general sessions and business and directors' meetings, relinquished the post to L. E. Young, incoming president for 1949. Howard A. Meyerhoff, administrative secretary of the AAAS, took office as chairman of the Industrial Minerals Division for the year 1949.

A record crowd divided its attention among 60 technical sessions, divisional luncheons, and social functions, and heard speeches by Governor Earl Warren at the All-Institute luncheon, and by Robert Gordon Sproul, president of the University of California, at the annual banquet. Noteworthy among the sessions were symposia on national mineral policy and atomic mineral deposits. None of the technological developments which make the mining and metallurgical professions dynamic was neglected, but programs and papers dealing with economics in the Industrial Minerals, Petroleum, and Coal Divisions gave clear indication that even the experts recognize that technology is not enough, and that the engineer must broaden his horizon to embrace the remotest economic factors which affect his operations.

The engineers honored distinguished colleagues, awarding medals to Harry Carothers Wiess (posthumously), Stanly A. Easton, William Wraith, and Eugene McAuliffe. Prizes and other awards for research went to M. Tenenbaum, E. A. Gulbransen, and J. W. Hickman (posthumously), John D. Saussaman, and Robert L. Hoss. Little time was allotted to field Activities, but the visiting engineers were given a courtesy flight over the San Francisco Bay area by Pan American Airways.

Plans for 1949 were laid in business sessions, and a regional meeting was

announced for September in Columbus, Ohio. The next annual meeting will be held at New York, in February, 1950.

HOWARD A. MEYERHOFF

Deaths

W. Reid Blair, 74, zoologist, died March 1 in New York City of a heart attack. Dr. Blair retired in 1940 as director of the New York Zoological Society's Bronx Zoo, where he had served for 32 years.

Theodore M. Focke, 78, former dean of Case Institute of Technology, died March 2 in Cleveland, Ohio. A Case faculty member for nearly 52 years, Dr. Focke was appointed professor of mathematics in 1908 and was dean of the Institute from 1918 until his retirement in 1944.

Leon Hastings Cornwall, 62, neurologist and member of the faculty at the College of Physicians and Surgeons, Columbia University, died at White Plains, New York on March 4.

Franklin S. Newell, 77, gynecologist and professor emeritus of clinical obstetrics at Harvard Medical School, died in Boston March 4.

Edwin H. Colpitts, 77, electrical engineer, died March 6 in East Orange, New Jersey. Dr. Colpitts played a major part in the development of telephone and radio communication and in the establishment of trans-Atlantic telephone service.

New Yorkers were flocking to the beach just about three months early when the New York Botanical Garden's exhibit, "**Plants Beside the Sea**," opened March 21, at the International Flower Show, Grand Central Palace. Showing the characteristic northeast coastal plants of North America, which have adapted themselves to wind, salt, and sand, the Botanical Garden's presentation will include a miniature beach, replete with seaside cottage, cliffs, lapping waves, and sandy shoreline, as well as grass, heather, pines, and other plants found near the ocean. This month's issue of the Botanical Garden's *Journal* carries an article listing more than 100 seacoast flowers—"Wild Flowers of Our Coastal Lands," by E. J. Alexander. Single copies may be ordered for 15 cents

from the Botanical Garden, Bronx Park, New York City 58.

The American Museum of Atomic Energy was opened to the public on March 19, when the gates to the city of Oak Ridge were removed. The exhibit is the first step in a broad program of public education in the field of atomic energy taken by the Oak Ridge Institute of Nuclear Studies, which heretofore has confined its activities to highly specialized research and training in the nuclear sciences. The "Man and the Atom" show, originally presented at the New York City Golden Jubilee last summer, forms the nucleus of the Museum. A staff is being assembled under the direction of David Lloyd DeJarnette, who has taken a year's leave of absence from his post as curator of the Alabama Museum of Natural History for the purpose. Admission fees will be used to expand and improve the exhibits.

Scholars from overseas who visit Boston are invited to visit the **American Academy of Arts and Sciences**, 28 Newbury Street, Boston 16, Massachusetts. The staff of the Academy will be glad to arrange travel and hotel accommodations and introductions to scholars and institutions in the Boston district. Mail and telephone calls may also be received at the Academy.

Harvard University's Peabody Museum has announced the discovery of an engraved pebble believed to be the finest example of Aurignacian engraving thus far discovered by archaeologists. The pebble was found last summer during excavations at La Colombiere rock-shelter, above the Ain River in eastern France, in an occupation layer immediately overlying the terrace that contained the relics of the Upper Aurignacian period, which places its age at 20,000 to 25,000 years. It is limestone, about the size of a large potato, and covered on both upper and lower surfaces with a number of engravings superimposed one over the other. Archaeologists have outlined a rhinoceros, horse, ibex, bison, and deer, as well as other partially drawn animals. They believe that the stone was used over and over again to insure good hunting. Excavations leading

to the discovery were made by **Halham Movius, Jr.**, curator of paleolithic archaeology, and **Kirk Bryan**, professor of physiography, of Harvard University, with the assistance of **Louis Dupree** and **Carleton Pierpont** of Harvard, and **S. Sheldon Judson**, of the University of Wisconsin.

Water-tight tile walls are possible through the use of a dense well-graded mortar applied in well-filled joints, the Office of Technical Services of the Department of Commerce reports. University of Minnesota researchers, who made the study under the OTS industrial program, exposed sample tile wall sections to simulated conditions of wind and rain to find the best ways to prevent wall leakage during prolonged exposure. They found that the bond between tile and mortar has key significance in the water-resistance of a wall, and is more important than the kind of tile used. A copy of the report, PB94388, *Water permeability of structural clay tile facing walls*, may be ordered from the Office of Technical Services, Department of Commerce, Washington 25, D. C. The price is \$1.00 and checks or money orders should be payable to the Treasurer of the United States.

Make Plans for—

Michigan Academy of Science, Arts, and Letters, March 31–April 2, Wayne University, Detroit.

2nd Symposium on Plasticity, sponsored by the Navy Department's Bureau of Ships and Office of Naval Research, April 4–6, Brown University, Providence, Rhode Island.

Meeting of the Animal Disease Research Workers in The Southern States, April 7–8, Alabama Polytechnic Institute, Auburn.

Crystallographic Society of America, fourth annual spring meeting, April 7–9, University of Michigan, Ann Arbor.

Eastern Psychological Association, annual meeting, April 8–9, Springfield, Massachusetts.

Medical Library Association, annual meeting, April 10–14, Galveston, Texas.