

NEWS

and Notes

Laurence Irving, former director of the Arctic Research Laboratory at Point Barrow, has moved to Anchorage, Alaska, as biologist with the Alaska Health and Sanitation Activities of the U. S. Public Health Service. As the director of a unit staff of biologists and physiologists, Dr. Irving will carry on a program of research concerning the adjustment of animals to conditions of the Alaskan arctic regions.

Harold A. Abramson, chief of the Allergy Clinic at the Mount Sinai Hospital, New York City, has been named president elect of the American College of Allergists.

Paul Kosok, chairman of the Department of History at Long Island University, recently returned from a year-and-a-half expedition to Peru, where he discovered and mapped some of the ancient irrigational systems of the Inca and Chimu peoples. Dr. Kosok's expedition was made possible by a grant from the American Geographical Society and a report on his investigations will appear in the society's magazine this spring. His work has been classified by the society as paleohydrology.

Brookhaven National Laboratory has appointed two new staff members to its Medical Department: **Wade N. Miller**, who returned recently from overseas service with the Army Medical Corps as chief of medical service of the Hepatitis Center, European Command, and **James S. Robertson**, formerly associated with the Donner Radiation Laboratory in Berkeley, California.

U. S. scientists invited by Centre National de la Recherche Scientifique to participate in the symposium "Rearrangements Moléculaires en Chimie Organique et Etude de l'Inversion de Walden" to be held in Montpelier, France, April 24-29, are **Paul D. Bartlett**, Department of Chemistry, Harvard University, and **S.**

Winstein, Department of Chemistry, University of California at Los Angeles.

Grants and Awards

The gold medal of the **Royal Astronomical Society** has been awarded to Joel Stebbins, director emeritus of the Washburn Observatory, University of Wisconsin, and now research associate in the Lick Observatory, University of California.

Viking Fund Medals and Awards for 1949 were presented February 10 at a dinner at the Waldorf-Astoria Hotel in New York City. The three people honored for outstanding achievement in the field of anthropology were: *Medalist in General Anthropology*, chosen by the American Anthropological Association—George P. Murdock, Yale University; *Medalist in Archaeology*, chosen by the Society for American Archaeology—Hallam L. Movius, Jr., Peabody Museum; *Medalist in Physical Anthropology*, chosen by the American Association of Physical Anthropologists—William K. Gregory, American Museum of Natural History.

Research Corporation of New York City has made a grant of \$2,500 to Francis V. Morriess, New Mexico Highlands University, Las Vegas, New Mexico, for investigations in the stereochemistry of bicyclic ring compounds. Part of the grant is to be used for a fellowship to start in September. Applications are now being received by the Chemistry Department.

Fellowships and Prizes

A **David Anderson-Berry Silver-Gilt Medal**, together with a sum of money amounting to about £100, will be awarded during 1950 by the Royal Society of Edinburgh to the person who, in the opinion of the society's council, has recently produced the best work on the therapeutic effect of x-rays on human diseases. Applications may be based on both published and unpublished work and should be accompanied by copies of the relevant papers. They must be

in the hands of the General Secretary, Royal Society of Edinburgh, 22 George Street, Edinburgh 2, Scotland, not later than March 31.

Science Teachers Fellowships, provided by a grant from the Westinghouse Educational Foundation, will enable 50 high school and preparatory school teachers to attend a six-week program at the Massachusetts Institute of Technology this summer. The program, to begin on July 5, will include a review of fundamentals of physics and chemistry and will cover recent developments in the fields of physics, chemistry, biology, meteorology, geology, and aeronautical engineering.

The Westinghouse grant, in the sum of \$62,500, was made last year to provide 50 MIT fellowships of \$250 each every summer through 1953.

The 1950 program is open to science teachers in the U. S. who are college graduates or have equivalent qualifications. Applications must be made by *April 1* to Francis W. Sears, Chairman, MIT's Summer Program for Science Teachers Committee, MIT, Cambridge, Massachusetts.

The National Research Council's Committee on Growth, in its advisory capacity to the American Cancer Society on grants-in-aid and fellowships in cancer research, recommended at its meeting on January 16 the award by the society of fellowships totaling \$70,550 and grants totaling \$1,595,429.

Fourteen American Cancer Society Fellowships in Cancer Research and four Damon Runyon Clinical Research Fellowships were recommended. Made available by the society this year for the first time was a new type of fellowship, British American Exchange Fellowships in Cancer Research, offered to citizens of the U. S. for advanced training and experience in Great Britain in specialized fields of investigation pertaining to the problem of cancer. Two of these new fellowships were recommended at the meeting. Similar fellowships are awarded by the British Empire Cancer Campaign to British scientists for study in the U. S. A major portion of the fellowship fund was reserved to support fellowships

to be recommended from applications which will be considered in April.

The committee recommended the award of 238 grants-in-aid for cancer research; these awards were distributed among 91 institutions in 33 states.

In making its recommendations to the American Cancer Society, the Committee on Growth is guided by the advice of 16 panels and subcommittees representing the principal fields of activity in cancer research. The 101 scientists from 51 institutions in 25 states who make up these panels made their recommendations to the committee at a meeting in Washington, D. C., December 16-18.

The New York Zoological Society again announces grants-in-aid available for its 1950 summer research program at the Jackson Hole Biological Station, Moran, Wyoming. The fourth summer program will include studies in ornithology, mammalogy, parasitology, ecology, botany, behavior, land use, and other biological sciences. Further information may be obtained by addressing Director, Jackson Hole Biological Station of the New York Zoological Society, Moran, Wyoming.

Summer Programs

The Massachusetts Institute of Technology announces a special three-week summer program in food technology to be held June 12-July 30. Requests for information and letters of application should be sent to Prof. Walter H. Gale, Director of the Summer Session, Room 3-107, MIT, Cambridge 39, Massachusetts.

The Special Training Division of the Oak Ridge Institute of Nuclear Studies will conduct the 15th, 16th, and 17th in its series of basic radioisotope technique courses this summer (see *Science*, October 7, p. 386). The courses are open to senior researchers and 32 participants will be accepted for each of the three repeated courses. Priority will go to those from universities who cannot attend courses offered during the winter months. Dates for the courses are June 5-30, July 3-28, and July 31-August 25. Application forms and additional information may be obtained from Dr. Ralph T. Overman,

chairman, Special Training Division, Oak Ridge Institute of Nuclear Studies, P. O. Box 117, Oak Ridge, Tennessee.

Meetings and Elections

The winter meeting of the Optical Society of America will be held at the Hotel Statler in New York City March 9-11. Programs will be mailed to members on February 18. Nonmembers may secure copies by writing Arthur C. Hardy, Secretary, Optical Society of America, Massachusetts Institute of Technology, Cambridge 39, Massachusetts. The annual meeting of the Inter-Society Color Council will also be held at the Hotel Statler, on March 8.

The Fifth International Cancer Congress will be held in Paris July 17-21, during the week of the 50th anniversary ceremonies of the discovery of radium. All sessions of the five-day meeting will take place at the Sorbonne. The program is being organized in three branches: biology and experimentation; pathology, clinic and therapy; and social struggle. Those wishing to present papers should submit title and abstract to the Office of the Secretary, Union Internationale Contre le Cancer 6, Avenue Marceau, Paris 8^e, before April 1.

The Southwestern Division of the AAAS will hold its annual meeting in Flagstaff and the Grand Canyon, Arizona, April 30-May 4. The host institutions will be the Arizona State College, the Lowell Observatory, the Museum of Northern Arizona, and the Grand Canyon National Park. An excellent program has been arranged under the chairmanship of Harold S. Colton. Registration and the general session are scheduled for Monday, May 1, and section sessions for Tuesday and Wednesday mornings. Field trips to the Grand Canyon have been planned by the Canyon Committee on Wednesday afternoon and Thursday. Hotel or other reservations may be made by writing directly to Dr. Arthur Adel, Arizona State College, Flagstaff, Arizona.

Those wishing to submit papers should send the title with abstract

to the secretary of the proper section before March 15. The section secretaries are: *Botanical Sciences* and *Zoological Sciences*, Harold C. Bryant, Superintendent, Grand Canyon National Park; *Physical Sciences*, Jesse A. Hancock, Texas Western College, El Paso, Texas; *Social Sciences*, Katherine Bartlett, Flagstaff, Arizona.

The Sixth International Congress of Radiology will convene in London July 23-30. Those planning to attend are urged to register as soon as possible. A higher registration fee will be charged after April 1. Abstracts of papers to be presented at the meeting should be mailed by the same date and the secretary-general must be notified by February 15 that the paper is being submitted. All communications should be sent to the Secretary-General, Sixth International Congress of Radiology, 45 Lincoln's Inn Fields, London, W. C. 2. Copies of the preliminary program can be obtained from the same address on request; the language desired should be specified.

Problems of behavior theory will be considered by seven psychologists at a conference scheduled for June 19-August 18 at Dartmouth College, to be sponsored by the Social Science Research Council in cooperation with the Carnegie Corporation. Members of the group are William K. Estes and W. S. Verplanck, Indiana University; Sigmund Koch, Duke University; Kenneth MacCorquodale and Paul E. Meehl, University of Minnesota; and Conrad G. Mueller and W. N. Schoenfeld, Columbia University.

The first International Mathematical Congress since 1936 will be held in Cambridge, Massachusetts, August 30-September 6, under the sponsorship of the American Mathematical Society. A grant of \$10,000 has been made by Unesco to be used for traveling expenses of foreign mathematicians. A conference which it is hoped will lead to the formation of an international mathematical union will be held just before the congress. Unesco has made another grant of \$10,000 for transportation of delegates to this conference.

The Second International Sesame Conference will be held at Maracay, Venezuela, September 18-20, with headquarters at the Instituto Nacional de Agricultura. Further information can be obtained from D. G. Langham, head of the Department of Agronomy and Genetics, Venezuelan Ministry of Agriculture, Caracas, Venezuela.

"Anomalies in Reaction Kinetics" will be the subject of a symposium to be held at the University of Minnesota June 19-21 by the Division of Physical and Inorganic Chemistry of the American Chemical Society. Further information may be obtained from the divisions secretary-treasurer, Milton Burton, University of Notre Dame, Notre Dame, Indiana.

Industrial Laboratories

A new *Bibliography of Polarographic Literature* has been published by Leeds and Northrup Company. It is an up-to-date listing of all available literature on the polarographic method of chemical analysis, consisting of 2,208 references by 1,310 authors on 903 principal subjects. The articles are listed in chronological order from the earliest associated work in 1903 up to the middle of 1949. All references are cross-indexed alphabetically by authors and by subject. Single copies may be obtained free of charge from Leeds and Northrup Company, 4934 Stenton Avenue, Philadelphia 44, Pennsylvania.

Jesse W. Huff has been named director of biochemical research for **Sharp and Dohme, Inc.**, Philadelphia, to succeed Richard H. Barnes, who was appointed assistant director of research in October, 1949. Dr. Barnes served in both positions until Dr. Huff's appointment.

NRC News

A **Committee on Biochemistry** advisory to the Office of Naval Research has been set up in the American Institute of Biological Sciences, which operates in the Division of Biology and Agriculture. It is the first of several such committees

designed to evaluate research projects in biology submitted to ONR, and to provide advice on the support of such projects. Members of the new committee are: chairman, Cornelius B. van Niel, professor of microbiology, Stanford University; Paul R. Cannon, chairman of the Department of Pathology, University of Chicago; John D. Ferry, professor of chemistry, University of Wisconsin; Jackson W. Foster, professor of bacteriology, University of Texas; Irwin C. Gunsalus, professor of bacteriology, Indiana University; Michael Heidelberger, professor of biochemistry, Columbia University; Samuel Lepkovsky, professor, Poultry Division, University of California; and Fritz A. Lipmann, head of the Biochemical Research Laboratory, Massachusetts General Hospital, Boston. The committee will meet February 16-17.

The NRC is revising its directory, *Industrial Research Laboratories of the United States*, the eighth edition of which appeared in 1946. More than 3,700 companies have so far been asked to submit information for the ninth edition, and the NRC is requesting any organization which has not yet received a questionnaire to write and ask to be included in the book. Any company, organization, or individual maintaining a laboratory in which any research or development work is done may qualify for inclusion in the directory, and any organization which provides scientific research services to business or industry may also be listed.

Forms on which information may be submitted for the directory may be obtained by writing to Dr. Myron J. Rand, NRC, 2101 Constitution Avenue, Washington 25, D. C.

A symposium volume entitled *Applied Sedimentation*, containing 35 papers on the practical applications of this field, has been prepared by the Committee on Symposium on Sedimentation of the Geology and Geography Division. Parker D. Trask, chairman of the committee, edited the symposium, which will be published in March by John Wiley and Sons, Inc.

The chief purpose of the symposium is to acquaint geologists and

engineers with the many fields in which a knowledge of the practical aspects of sedimentation is helpful, and to increase cooperation in work on these problems. The book is designed also to point out to students the opportunities in the field, and to be a useful reference work to consulting geologists and engineers.

The following additions have been made to the **Advisory Committee on Artificial Limbs**: Craig L. Taylor, University of California at Los Angeles, H. D. Eberhart, University of California at Berkeley, Rufus H. Alldredge, New Orleans, Louisiana, and T. Campbell Thompson, New York City. Verne T. Inman, University of California Medical School at San Francisco, has been appointed as a consultant to the committee.

Deaths

Clarence A. Reed, horticulturist and specialist in the development of pecan and filbert nuts, died January 14 at Lakeland, Florida, at the age of 69. Dr. Reed retired in 1947 after 40 years' research in the Department of Agriculture's Bureau of Plant Industry. His work led to the establishment of pecan experiment stations in many parts of the country.

Virgil Snyder, professor emeritus of mathematics at Cornell University, died January 4 at Ithaca, New York. Dr. Snyder was president of the American Mathematical Society in 1927-28 and had taught at Cornell for 43 years, retiring in 1938. He was 80 years old.

Calvin Wells McEwan, 43-year-old archaeologist, died January 12 after a long illness. Dr. McEwan served as field director of expeditions for the Oriental Institute of Chicago before the war and spent much of his time in the Near East.

The Registry of Rare Chemicals, 35 West 33rd Street, Chicago 16, Illinois, lists the following wanted chemicals: ulmic acid, cysteic acid, adrenochrome, kaemferol, quercetage-tin, boron tribromide, cobalt carbonyl, potassium peroxide, zirconium bisulfate, calcium plumbite, 1-nona-

nethiol, thiacyclopentane, palmityl chloride, *n*-dodecafluoropentane, octadecylbenzene, oxy hemoglobin, β -ketopalmitic acid, oxindole, and *n*-methylethyleneimine.

Make Plans for—

Pittsburgh Conference on Analytical and Applied Spectroscopy, sponsored by the Analytical Division of the American Chemical Society's Pittsburgh Section and the Spectrographic Society of Pittsburgh, February 15–17, William Penn Hotel, Pittsburgh.

National Science Teachers Association's Advisory Council on Industry-Science Teaching Relations, February 25, Chalfonte-Haddon Hall Hotel, Atlantic City, New Jersey.

American Institute of Chemical Engineers, regional meeting, February 26–March 1, Rice Hotel, Houston, Texas.

Alabama Academy of Science, 27th annual meeting, March 16–18, Alabama Polytechnic Institute, Auburn, Alabama.

Biometrics Society and Institute of Mathematical Statistics, joint session March 17–19, Chapel Hill, North Carolina.

Recently Received—

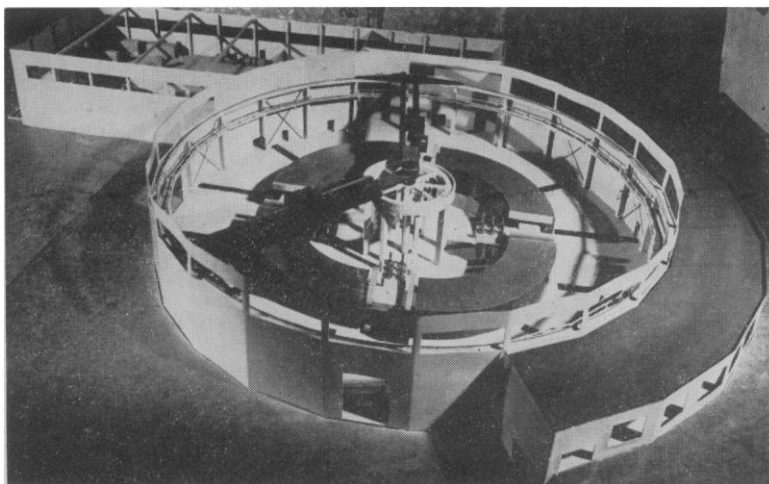
Sea Anemones and Corals of Beaufort, North Carolina. Bull. No. 5. Louise Randall Field. Duke University Press, Durham, N. C. \$2.

Vitamin E: Annals of the New York Academy of Sciences. Vol. 52, Art. 3. Karl E. Mason *et al.* New York Academy of Sciences, Central Park West at 79th Street, New York City. \$4.50.

The Field Scientific Liaison Work of Unesco. Unesco Publ. Columbia University Press, New York City. 30 cents.

Effect of Permanent Flooding in a River-Bottom Timber Area. Lee E. Yeager. Illinois Natural History Survey Bulletin, Vol. 25, Art. 2. Department of Registration and Education, Urbana, Ill.

Additional Phanerogams in the Flora of Guam, with Notes on Unverified Records. U. S. National Herbarium, Vol. 30, Part 3. Egbert H. Walker and Robert



SCALE MODEL OF A PROTON SYNCHROTRON. The original, known as the Bevatron, is being built in an excavation that spreads over almost an acre of ground on a hill overlooking the Berkeley campus of the University of California. It embodies a principle, developed independently by V. Veksler and E. McMillan, and put in practical form by W. M. Brobeck, to remove the natural energy limit of the cyclotron's action, imposed by the fact that as particles approach the speed of light their relativistic mass increases so that they fall out of step with the voltage reversals that accelerate them. The proton synchrotron takes advantage of this lag by varying both the magnetic field and the frequency in proportion to the mass increase. A 1.3-Bev proton synchrotron (an independent development of M. L. Oliphant), is being built at the University of Birmingham, England, and another for about 3-Bev energies is under construction at Brookhaven (the Cosmotron). When completed, the Berkeley Bevatron is expected to yield protons of $3\frac{1}{2}$ Bev, and it can be modified to operate at about 6 Bev. A quarter-scale model of the Bevatron is now in operation at Berkeley for test purposes.

Rodin. U. S. GPO, Washington 25, D. C. 15 cents.

Assistance to Greece and Turkey: 8th Report to Congress. U. S. Department of State. U. S. GPO, Washington 25, D. C.

The British Interplanetary Society Annual Report and List of Members. 157 Friary Road, London, S.E. 15.

Commonwealth Fund, Annual Report. Commonwealth Fund, 41 East 57th Street, New York City.

Marine Biological Station at Port Erin, Isle of Man: Annual Report for 1948. University Press of Liverpool, Liverpool, England. 3 s.

Pacific Science Board Second Annual Report, 1948. National Research Council, Washington 25, D. C.

Annual Reports on the Progress of Chemistry for 1948. Vol. 45. The Chemical Society, Burlington

House, Piccadilly, London. W. 1. £1.5. Od.

The Probable Errors of Yale Parallax Plates. Harold L. Alden. Trans. Astronomical Observatory, Yale University, Vol. 15, Part II. Observatory, Yale University, New Haven, Conn.

Style Manual for American Standards. American Standards Association, 70 East 45th Street, New York City 17.

The Smog Problem in Los Angeles County: Second Interim Report. Stanford Research Institute. Committee on Smoke and Fumes, Western Oil and Gas Association, 510 West Sixth Street, Los Angeles 14, Calif.

The Pseudoscorpions of Illinois. C. Clayton Hoff. Illinois Natural History Survey Bulletin, Vol. 24, Art. 4. Department of Registration and Education, Urbana, Ill.