# **NEWS** and Notes

Edwin G. Williams, senior surgeon, U. S. Public Health Service, who has for several years been engaged in research and field studies of radiation protection, has been assigned to the Office of the Surgeon General, Sanitary Engineering Division, to establish a Section on Radiological Health.

John E. Cushing, formerly instructor in biology at Johns Hopkins University, has been appointed assistant professor of bacteriology at the University of California, Santa Barbara College. Dr. Cushing will continue his research on the genetics of adaptation in microorganisms.

appointed research associate at the ant. Marine Laboratory, University of Miami, Florida.

of August after performing a botanical known for his research on the biosurvey of northern Quebec along the physical preparation and the electron Kogaluk and Payne River, a sector microscopy of purified viruses, will companied by E. Aubert de la Rüe, aryk University, Brno, Czechoslovakia. geologist, Jean Michea, archeologist This is the first such degree bestowed and ethnologist, and Pierre Gadbois, by the University since the end of the geographer.

Miguel Covarrubias, famous Mexican artist and author, will be Walker- pointed professor of mineral economics Ames professor of anthropology at the at the University of Illinois. University of Washington, Seattle, dur- Voskuil will also continue his work ing the fall quarter.

David Nicol, formerly of the University of Houston (Texas), has been appointed associate curator of Invertebrate Paleontology and Paleobotany at the U.S. National Museum, Washington, D. C. Dr. Nicol will be in charge of Tertiary fossils.

New York Academy of Medicine on design and development of microwave October 21. Dr. Watson will speak on oscillator tubes and gas discharge "Urobilin and Stercobilin."

E. U. Condon, director of the National Bureau of Standards, left for Paris October 1. Dr. Condon will serve as chief of the U.S. delegation to the International Conference on Weights and Measures, which will be who preceded Dr. Condon to Europe, will also attend the Conference.

Friedrich P. Ellinger, of Koenigsberg, Germany, has recently joined the permanent staff of the Navy's Research Institute at the Naval Medical Center, Bethesda, Maryland, as technical director of all research in the field of radiation biology. Dr. Ellinger, who became an American citizen in 1944, has been associated with the Long Island College of Medicine as di-

Ralph W. G. Wyckoff, of the National Institutes of Health, Bethesda, Jacques Rousseau returned to the Maryland, left recently for Europe. Montreal Botanical Garden at the end While there, Dr. Wyckoff, who is which, for the greatest part, was being receive an honorary doctor's degree visited for the first time. He was ac- from the Faculty of Medicine of Mas-

> Walter H. Voskuil has been apwith the State Geological Survey.

C. Donnell Turner, formerly of the Department of Zoology, Northwestern University, has been appointed associate professor of biology at Utica College of Syracuse University.

Toivo M. Liimatainen has been ap- the James R. Jewett Award.

tubes, as well as on the design and application of high back-voltage selenium

#### Awards

Leo C. Massopust, of the Marquette held October 12-21. E. C. Critten- University School of Medicine, was den, associate director of the Bureau, named first Annual Award winner by the Board of Directors of the Biological Photographic Association at the Association's recent convention in Philadelphia. He received the award, as anatomical artist, medical photographer, and radiographer, for his extensive contributions to the aims, activities, and ideals of biological photography and was also cited for his activities as editor of the Association's journal.

Marston T. Bogert, emeritus pro-C. P. Idyll, formerly associated rector of its Laboratory for Experi- fessor of organic chemistry, Columbia with the International Pacific Solomon mental Radiation Therapy Research University, has been chosen as the Fisheries Commission at New West- and with the U.S. Veterans' Hospital first recipient of the recently estabminster, British Columbia, has been at the Bronx, New York, as a consult- lished Medal of the Society of Cosmetic Chemists. The award is made "for outstanding professional contributions," and the presentation will take place at a special meeting of the Society in New York City on the evening of December 8.

> Duncan A. MacInnes, of the Rockefeller Institute for Medical Research, has been awarded the Edward Goodrich Acheson Medal and Prize for outstanding contributions to the science of electrochemistry. Presentation of the medal and prize will be made at the convention dinner of the Electrochemical Society to be held at the Hotel Pennsylvania in New York City on October 14. Dr. MacInnes, who has been associated with the Rockefeller Institute since 1924, formerly served as president of the Electrochemical Society and held the Sigma Xi National Lectureship in 1940.

George Graves, of Boston and Martha's Vineyard, Massachusetts, has been named the 1948 winner of pointed to the staff of the National award is presented annually by the Cecil J. Watson, professor of medi- Bureau of Standards, where he will Arnold Arboretum of Harvard Univercine, University of Minnesota Medical work on the engineering and develop- sity to the individual making the most School, will deliver the first Harvey ment of microwave tubes. Mr. Liima- significant contribution to the improve-Lecture of the current series at the tainen has done extensive work on the ment of the native beach plum. Mr.

Graves was recognized for his experi- other, for a more senior investigator. rangements may be made by qualified by a grant of money given to the Enzyme Research. Arnold Arboretum by James R. Jewett, emeritus professor of Arabic at Har-

## **Fellowships**

The National Research Council of Canada has awarded 31 medical fellowships varying in amount from \$1,500 to \$2,500 to graduates in medicine for postgraduate research during 1948-49. The grantees represent 10 different universities, including one in Australia and one in England. Fellowship holders will carry on their work at 8 universities, as follows: McGill, 8; Montreal, 1; Queen's, 4; Toronto, 7; Western Ontario, 8; Manitoba, 1; Oxford, England, 1; and Zurich, Switzerland, 1.

has announced the award of 162 new research fellowships in the physical, biological, and agricultural sciences to applicants from 30 states who will study in 43 different institutions. The number of graduate students selected for training under the AEC-financed fellowship program during 1948-49 now totals 206. Under this program, which is designed "to insure continued expansion of research and development in atomic energy and related fields, to alleviate the shortage of trained scientists and technicians, and to assist in the acquisition of a growing fund of theoretical and practical knowledge," awards have been made both to researchers already holding the doctor's degree and to students working toward the degree.

The National Research Council, which is administering the program, will continue to accept applications, and additional awards will be made this fall and next spring.

Two fellowships for training in plexes in Analytical Chemistry." enzyme chemistry have been made available by the Williams-Waterman for the entire series is being charged. State University, as assistant profes-Fund of the Research Corporation to Requests for registration cards should sor of physiology; H. Duncan Rollathe Institute for Enzyme Research of be addressed to Prof. Neil E. Gordon, son, formerly an instructor at Amherst the University of Wisconsin. One of coordinator of the series, and ac-College, as assistant professor of zoolthe fellowships is intended for recent companying checks should be made ogy; and M. S. Cornell and Herbert J.

ments in producing more consistent The stipends will range from \$3,000 to persons to earn graduate credit if fruit set and later blooming varieties. \$4,000. Applications should be sent to they so desire. The annual award was made possible Dr. D. E. Green, of the Institute for

### Colleges and Universities

"Frontiers in Chemistry" sion leaders for each program.

the Kresge-Hooker Library.

The Atomic Energy Commission like others in the series, is scheduled H. Haslam, H. E. Johns, and L. Katz. for 7:00 P.M.

> Subsequent lecturers and their sub-Lingane, Department of Chemistry, the College. Harvard University, "New Developments in Electro-Analytical Chemistry"; and November 29-Lynne L. has announced the following staff ad-Merritt, Department of Chemistry, ditions: David W. Bishop, formerly Indiana University, "Chelate Com- associate professor, University of Illi-

Installation of a 25-Mev betatron has just been completed in the Department of Physics at the University of Saskatchewan, Saskatoon, Canada. will Funds for the betatron, one of the again be the subject of a symposium first to be built commercially and delecture series this autumn at Wayne livered to a university laboratory, University. Eight consecutive Monday were supplied by the Canadian Atomic evenings will be devoted to the series, Energy Control Board, the National with outstanding chemical scientists Research Council, the Cancer Institute, from midwestern and eastern universi- and the Province of Saskatchewan. ties appearing as lecturers and discus- Less than a year after the order was placed with Allis-Chalmers of Milwau-The participants will go to Detroit kee, and the ground broken for the under the joint auspices of Wayne's building (especially designed for the Department of Chemistry and the In- purpose and erected by the Provincial ternational Society of the Friends of Government), the installation was completed. The experimental work. Roger Adams, head of the Chemistry already begun, will be conducted mainly Department at the University of Illi- under the direction of four members of nois, will speak at the initial program, the Department of Physics: E. L. Monday, October 11. This program, Harrington, department head, R. N.

The University of Illinois College jects will be: October 18-W. H. of Veterinary Medicine has recently Zachariasen, Department of Physics, enrolled its first group of students University of Chicago, "Crystal Chem- for the 4-year professional veterinary istry of the 5F Series of Elements'; course leading to the degree of doctor October 25-F. H. Westheimer, De- of veterinary medicine. Each of the partment of Chemistry, University of 24 students accepted in the College has Chicago, "A Quantitative Theory of completed two years of preveterinary Steric Effects'; November 1-Wil- training. The B.S. degree may be liam S. Johnson, Department of Chem- conferred upon the students at the istry, University of Wisconsin, topic end of their second year of veterinary to be announced; November 8-John training. Upon the completion of two C. Bailar, Department of Chemistry, proposed new buildings, larger veter-University of Illinois, "Stereochem- inary classes will be accepted. These istry of the Metal Amines'; Novem- new buildings will consist of a basic ber 15-Christopher Wilson, Univer- science building and an additional sity of London and Ohio State structure to house the activities of the University, "The Mechanism of Re- Department of Veterinary Clinical duction"; November 22-James J. Medicine and the diagnostic service of

The University of Massachusetts nois, as professor of physiology; James A nominal registration fee of \$5.00 G. Snedecor, formerly of Louisiana graduates with a Ph.D. degree; the payable to Wayne University. Ar- Berman as new zoology instructors.

dation for Scientific Research, the University of Southern California College of Aeronautics, and the new U.S.C. Marine Laboratory ship, Velero IV. According to Capt. Allan Hancock, who serves as director of the three groups, the new program will pursue exploratory, fundamental, and developmental research projects for governmental and industrial organizations on a nonprofit basis. Maurice Nelles, of the College of Aeronautics, has been named engineering and research manager with responsibility for technical and scientific management of the research projects.

The \$2,000,000 Laboratory of Nuclear Studies which was dedicated October 7 at Cornell University (see Science, October 1, p. 348 and this week's cover) consists of a main laboratory building and an adjacent structure housing a 300-Mev synchrotron, with which Cornell physicists hope to produce mesons. The main laboratory building contains 16 single and 3 double laboratories, four radiochemistry laboratories, two machine shops, an electronics shop, stockrooms, synchrotron control and detector rooms, and a roof deck for cosmic-ray research, exclusive of conference rooms and other facilities. As staff for the recently returned from a meeting of new Laboratory, which will be directed by Robert R. Wilson, there will be 18 held in Brussels and reports that the faculty members, 24 other full-time German and Japanese Committees are staff members, 11 graduate research to be recognized as soon as they reassistants, and 6 part-time or temporary technicians.

The present Laboratory facilities are an outgrowth of a broad program of both theoretical studies and experimental work begun in the 1930s by a handful of nuclear physicists, among whom were Hans A. Bethe, M. Stanley Livingston, Robert F. Bacher, and Lyman G. Parrat. These men, working with Lloyd P. Smith and other members of the staff, continued their research, and in 1946 the Labo- following the International Hematol-

engineering on land, at sea, and in vision of Experimental Physics at Los much interest in the program of scienthe air is under way, utilizing the Alamos, has been in direct charge of tific and administrative papers. facilities of the Allan Hancock Foun- the final design of the buildings and their equipment.

### Meetings and Elections

The Midwest General Meeting of the American Institute of Electrical Engineers will be held October 18-22 in Milwaukee, Wisconsin, with headquarters at the Schroeder Hotel. Thirty-four technical sessions and conferences in the broad fields of power, industry, communication, and basic sciences have been arranged. conference sessions on industrial control, material handling, and automatic contouring have been scheduled so as to permit inspection trips to corresponding Milwaukee industries. W. Seeger is acting as chairman of the Midwest General Meeting Committee.

The postponed 16th Congress of the International Geographical Union is to be held in Lisbon, Portugal, April 8-15, 1949, with a series of excursions following the sessions. George B. Cressey, of Syracuse University, chairman of the National Committee of the United States, has the Executive Committee of the Union organize. Italy is already an active member. The nongovernmental character of the Union was reaffirmed, and it was emphasized that the Lisbon Congress is open to all professional geographers, irrespective of political considerations.

Blood Banks held its first annual meeting at the Hotel Statler, Buffalo, New York, August 26-28, immediately ratory of Nuclear Studies was officially ogy Society meeting. According to established with Dr. Bacher as direc. Marjorie Saunders, Association secre-The latter was soon appointed tary, approximately 200 persons at Angeles, the University of Southern a member of the Atomic Energy tended the various sessions. There California, and the California Insti-Commission, and since that time Dr. were also a number of foreign guests. tute of Technology.

A program of research and project sity and at one time head of the Di- and 6 foreign countries, indicated

At the business meeting Ralph G. Stillman, of the New York Hospital Blood Bank, was elected president; Thomas H. Seldon, of the Mayo Clinic Blood Bank, president-elect; Ernest Witebsky, Buffalo General Hospital Blood Bank, vice-president; W. Quinn Jordan, Salt River Valley Blood Bank, Phoenix, Arizona, treasurer; and Miss Saunders, who is located at the William Buchanan Blood Center, Baylor University Hospital, Dallas, Texas, secretary. Directors for the 8 districts were also named.

Information regarding proceedings of the meeting and membership in the Association may be obtained from the office of the secretary.

The Division of Fluid Dynamics, established by the Council of the American Physical Society in June 1947, has been organized. By-laws have been formulated and approved by the Council. Under these by-laws an election was held in which the following were elected members of the Executive Committee: Jesse W. Beams, Howard W. Emmons, Theodor von Karman, for a one-year term; Hugh L. Dryden and Paul S. Epstein, for a two-year term; Raymond J. Seeger and John G. Kirkwood for a three-year term. A ballot by the Executive Committee has completed the organization by the election of R. J. Seeger, chairman, H. L. Dryden, vice-chairman, and H. W. Emmons, secretary-treasurer. the work of the original Fluid Dynamics Committee, consisting of H. L. Dryden, H. W. Emmons, J. G. Kirkwood, C. B. Millikan, R. J. Seeger, T. von Karman, and J. von Neumann, which has functioned for several years, will be continued in the future by the new Division.

H. W. Emmons has reported as fol-The American Association of lows with respect to the Division's meeting this past summer:

During the latter part of June a three-day symposium on heat transfer and fluid mechanics was held in the Los Angeles area under the auspices of the University of California at Los The meetings Wilson, formerly of Harvard Univer- The registrants, representing 28 states on Wednesday, June 23, were held

under the joint sponsorship of the temperatures. United States. factorily checked by recent experi- Systems." ments. The second paper, "Viscous Effects in Compressible Flow,'' by Dr. Deaths Lagerstrom of CalTech, and two of his graduate students, gave preliminary results obtained during an investiga- of mechanical engineering at the Uni- availability of water and power, the tion sponsored by the ONR. A theo- versity of Illinois, died July 15 in suitability of underlying formations retical study has been made of certain Urbana. simplified flows in which both compressibility and viscosity effects are the Chemistry Department, University agricultural productivity than that of important. Somewhat idealized cases of Louisville, died suddenly September other sites considered, while the size have been set up which permit both 20 in Louisville, Kentucky. linear and nonlinear treatments of the problem.

perimental papers on interferometry tember 21 at his New Haven, Connectiwere presented: "Some Heat Transfer cut, home. Studies With the Zehndermach Interferometer," by Ernst R. G. Eckert, gineer, author, and professor of elecand "Interferometer Studies of Super- trical engineering, died in Washington, sonic Boundary Layers," by Rudolf D. C., on September 28. W. Ladenburg. The techniques de-tionally known as a pioneer in the scribed by these two authors have al- field of radio, Dr. Cohen had variously ready produced important results, and served with the National Bureau of annual meeting, October 21-23, Hotel it is quite apparent that they will be Standards, as faculty member of Fort Shelby, Detroit, Michigan. of great importance in the future study George Washington University, and as of compressibility flows.

In the first afternoon session the partment. following three papers were given: "A Simplified Theory of Porous Wall Cooling for Turbulent Flow," by W. Duncan Rannie; "Experimental Study new bulletin, has recently been issued of Cooling by Injection of a Fluid by the Office of Education, FSA. Through a Porous Material," by H. Prepared by Blenn O. Blough, spe-L. Wheeler and Pol Duwez; and cialist in elementary science, and his "Studies of the Gas Phase Tran- assistant, Paul E. Blackwood, the spiration Cooling Process Using Air booklet outlines the place of science as a Coolant," by Joseph Friedman, in children's lives and in the elemen-The new technique of transpiration tary school program, along with praccooling, which has been made possible tical methods of science teaching. by recent developments in powder Copies (Bulletin 1948, No. 4) are metallurgy, appears to have great im- available at \$0.15 each from the Su- Mineralogical Society of America, portance in connection with the cooling perintendent of Documents, U. S. Paleontological Society, and Society of rocket motors and of other con- Government Printing Office, Washing- of Vertebrate Paleontology, Novemtainers subjected to extremely high ton 25, D. C.

The three papers insymposium and of the Fluid Dynamics dicated that very considerable progress plant for studies of the generation Division. This joint meeting proved has already been attained and that of electric power from nuclear energy to be highly successful in view of the still more may be expected as the field is to be located on 4,500 acres of land caliber of the papers presented and the is further investigated. The following to be acquired by the Atomic Energy presence of a large number of workers two theoretical papers dealing with Commission in Saratoga County, New in the field from all parts of the heat transfer problems also proved to York. The plant will be part of the The meeting was be of great interest: "Heat Transfer facilities of the Knolls Atomic Power opened by a paper from T. von Kar- in a Laminar Boundary Layer on a Laboratory, which is operated for man on "Progress in the Statistical Porous Flat Plate With Fluid Injec- AEC by the General Electric Company Theory of Turbulence," which pre-tion," by S. W. Yuan, and "Stability at Schenectady. The nuclear reactor, sented developments and extension by of the Laminar Boundary Layer With heart of an atomic power plant. will the author of the isotropic turbulence Injection of Cool Gas at the Wall," differ appreciably from the productheories of Kolmogoroff, Heisenberg, by Lester Lees. The session was closed tion reactors used at the Commission's and others, and included certain speci- with a paper by Lindquist on "The Hanford Works. The new Knolls refic predictions which have been satis. Theory of Flow of Pseudo-Plastic actor is one of two being designed es-

Schuyler Beebe professor of mathe- placement of as few people as pos-The following very interesting ex- matics at Yale University, died Sep-

> Louis Cohen, 71, consulting enconsulting engineer for the War De-

"Teaching Elementary Science," a

An experimental atomic power pecially for studying high-temperature operation and the production of power. Choice of the location depended on its proximity to the plant and laboratories Horace I. Macintire, 68, professor of the General Electric Company, the for installation of heavy concrete struc-Clarence C. Vernon, 52, head of tures, and the utilization of land of less of the tract was determined by safety Wallace A. Wilson, 63, Philip and security requirements and the dis-

#### Make Plans for-

6th Annual Pittsburgh Conference on X-Ray and Electron Diffraction. November 19-20, Carnegie Institute of Technology.

Optical Society of America, 33rd

Symposium on Ultrasonics and Macromolecules, October 3, Polytechnic Institute of Brooklyn.

American Mathematical Society, October 30, New York City.

American Society for the Study of Arteriosclerosis, annual scientific meeting, October 31-November 1, Hotel Knickerbocker, Chicago, Illinois.

American Institute of Chemical Engineers, annual meeting, November 7-10, Hotel Pennsylvania, New York City.

Geological Society of America, ber 11-13, New York City.