

ratories at Niagara Falls, N.Y., and CHESTER WHITE, supervisor of the Rochester, N.Y., laboratories.

Four appointments to the staff of the John Jay Hopkins Laboratory for Pure and Applied Science have been announced by the General Atomic Division of General Dynamics Corporation: MARTIN O. STERN from Carnegie Institute of Technology, NORMAN ROSTOKER from Armour Research Foundation, and ANDREW W. McREYNOLDS and HARVEY P. SLEEPER, JR., from Brookhaven National Laboratory.

FRANCIS McCAFFREY, formerly of the Naval Ordnance Test Station at China Lake, Calif., has been appointed associate professor of physics at Boston College, where he will continue research in photoconductive mechanisms in semiconductors.

WARD C. SANGREN, a senior mathematician at Oak Ridge National Laboratory since 1951, has joined the General Atomic Division of General Dynamics Corporation, San Diego, Calif. He is known for his work on the solution of reactor problems through the use of high-speed calculating machines and for advanced theoretical work on boundary value problems, eigenvalue problems, and nonlinear differential equations.

SEWARD E. MILLER, chief of the Division of Special Health Services of the Bureau of State Services, U.S. Public Health Service, has been granted a leave of absence to accept the directorship of the University of Michigan's Institute of Industrial Health.

JOEL O. HOUGEN, professor of chemical engineering at Rensselaer Polytechnic Institute since 1948, has joined the engineering department of Monsanto Chemical Company's Research and Engineering Division, St. Louis, Mo. He will be a member of the newly organized section concerned with special research in automatic control of chemical processes.

CARL OLSON, JR., chairman of the department of animal pathology and hygiene at the University of Nebraska, has been named professor of veterinary science at the University of Wisconsin. He will fill the position vacated by CARL BRANDLY, who has accepted appointment as dean of the College of Veterinary Medicine at the University of Illinois.

RAY G. DAGGS has resigned as director of research for the Army Medical Research Laboratory at Fort Knox, Ky., to accept the position of executive secretary-treasurer of the American Physi-

ological Society, Washington, D.C. MILTON O. LEE, former executive secretary, will continue as managing editor and as secretary of the Federation of American Societies for Experimental Biology.

RALPH S. MUCKENFUSS, former scientific director of the Naval Biological Laboratory at the University of California, has recently joined the staff of the Naval Medical Research Institute, Bethesda, Md., as technical director.

RICHARD H. GRAHAM, formerly chief of the reactor engineering section of the division of reactor development for the U.S. Atomic Energy Commission in Washington, D.C., has joined Lockheed's Missile Systems Division as staff scientist for nuclear engineering.

CHARLES F. KETTERING, inventor and General Motors research consultant, received a scroll from the American Medical Association at a celebration of his 80th birthday. The citation was in recognition of his contribution to science. More than 1000 attended the presentation, which took place in Dayton, Ohio.

CLYDE KLUCKHOHN, professor of anthropology in the Laboratory of Social Relations at Harvard University, has been named to the 2-year appointment of chairman of the division of anthropology and psychology at the National Academy of Sciences-National Research Council.

JONAS N. MULLER has been named professor and director of the department of preventive medicine, public health, and industrial hygiene at the New York Medical College, Flower and Fifth Avenue Hospitals. Muller, who has been with the American Public Health Association in New Haven, Conn., since 1952, succeeds HELEN WALLACE, who has gone to the School of Public Health at the University of Minnesota.

HENRY A. PILSBRY, conchologist who will be 94 years old in December, has returned to the Academy of Natural Sciences of Philadelphia after an absence because of illness. He is again in charge of the academy's department of mollusks, of which he is curator. He has been on the academy's staff for nearly 70 years.

Col. WARREN C. EVELAND, (MC) USA, has been appointed chief of the bacteriology and immunology section of the Armed Forces Institute of Pathology, Washington, D.C. Prior to reporting to his new assignment on 27 Aug., Eveland had been on duty at the Army's 406th Medical General Laboratory in Tokyo, Japan.

Recent Deaths

MARY BICKINGS-THORNTON, Philadelphia, Pa.; 76; professor emeritus of anatomy at Woman's Medical College; 7 Sept.

BENJAMIN M. DUGGAR, Pearl River, N.Y.; 84; research consultant at Lederle Laboratories; retired professor of botany at the University of Wisconsin; Member of AAAS Executive Committee, 1925; vice president AAAS Section G, 1926; 10 Sept.

ISAAC H. JONES, Los Angeles, Calif.; 75; pioneer in aviation medicine, who until recently was conducting research at the University of California; 7 Sept.

NORMAN McINDOO, Washington, D.C.; 75; retired senior entomologist in the insecticide division of the Department of Agriculture; 7 Sept.

OTTO Y. SCHMIDT, Moscow, U.S.S.R.; 64; geographer and mathematician, who at various times was on the staff of the University of Moscow, chief editor of the *Soviet Encyclopedia*, and director of the Soviet State Publishing House; 7 Sept.

H. KIRK STEPHENSON, Chevy Chase, Md.; 43; program director for Earth Sciences at the National Science Foundation; 2 Sept.

BALDWIN M. WOODS, Berkeley, Calif.; 68; retired vice president of the University of California and former chairman of the department of mechanical engineering; 7 Sept.

HELEN YARNELL, New York, N.Y.; 52; former senior psychologist at the Bronx center of the city Board of Education's Bureau of Child Guidance; 8 Sept.

Education

■ Dedication ceremonies for the University of Florida's Medical Sciences Building, first unit of the J. Hillis Miller Health Center, have been scheduled for 12 and 13 Oct. The program will include addresses by Detlev Bronk of the Rockefeller Institute for Medical Research and Wendell Stanley, head of the University of California's Virus Laboratory.

The University of Florida's first class in medicine was admitted this fall and began classes in the new building. The College of Nursing was also opened for the first time, although headquarters for the college will be the Teaching Hospital, now under construction.

■ The State University of New York College of Medicine in Brooklyn is being transformed into a modern medical center. Highlights of the opening of its 96th academic year this fall are a new \$14.5-million Basic Sciences Building, a revised

curriculum for 600 medical students, and inauguration of a graduate educational program.

Begun in 1953, the Basic Sciences Building is the first permanent structure on the site of the State University Downstate Medical Center. It will house administrative offices for the Medical Center and its units (at present, the College of Medicine and the Graduate Educational Program), offices and laboratories for full-time faculty members, instructional facilities for students, and dining and recreational rooms for faculty, students, and staff.

The move to its new site at 450 Clarkson Avenue from the several buildings formerly occupied on Henry Street in the Brooklyn Heights area, places the Downstate Medical Center directly across the street from the city-owned Kings County Hospital Center, which serves as the major facility for the teaching of practical bedside and outpatient medicine to third- and fourth-year medical students. The new building, which is 11 stories high in its central portion and seven stories high at each end, extends for three blocks along Clarkson Avenue.

Under the new curricular plan for medical students, the course will move chronologically from study of the cell to organs, organ systems, the integrated human being, and man in his environmental relationships to provide a more logical united body of knowledge than under the traditional medical program. In addition, the revised course will provide more individualized training for each student. Teaching in smaller groups and an increase in free time will allow a two-level teaching program that will give the slower student more time for study and the faster one more time to pursue elective programs or research.

The Graduate Educational Program in the biological sciences basic to medicine, which is being inaugurated this year, will lead to the Ph.D. degree in anatomy, biochemistry, physiology, and pharmacology. Graduate courses will be taught by faculty members of the College of Medicine who are specialists in the basic science fields covered. Students cannot be enrolled in the medical and graduate programs at the same time.

■ The regents of the University of California have voted on gradual expansion of the faculty and facilities of the La Jolla campus in order to provide a graduate program that will emphasize science and technology.

■ The first in a series of grants in support of computation centers and research in numerical analysis have been announced by the National Science Foundation. Grants totaling \$135,500 have been awarded as follows: California Institute

of Technology, \$38,000; Massachusetts Institute of Technology, \$30,000; Oregon State College, \$20,000; University of Washington, \$17,500; University of Wisconsin, \$30,000.

The funds will be variously used—to establish the nucleus for a computing center where none exists, to extend existing centers, and to pay rental for computing time. In some instances part of the funds will be used for salaries of research assistants.

The foundation's program is designed to strengthen basic research in a number of fields by providing research investigators access to computing facilities. Only a few large computing centers are available for basic research problems, and these generally on a part-time basis only. Most computers are busy on a round-the-clock schedule on industrial problems related to defense contracts. The general-purpose university computing laboratory does not have sources of support for basic research at present. Foundation assistance will help to establish or strengthen such general-purpose research laboratories.

■ A graduate program in biology leading to the M.A. and Ph.D. degrees is being inaugurated at Brandeis University, Waltham, Mass., this fall. The faculty of this new department, which is now in process of formation, includes, at present, Harold P. Klein, chairman, Herman T. Epstein, Albert Kelner, Margaret Lieb, Albert G. Olsen, Lionel Jaffe, and Philip St. John. Emphasis in the program will be placed on experimental biology, particularly in the fields of cellular development and differentiation, genetics, microbiology, and physiology.

■ The Atomic Energy Commission has accepted the enrollment of 63 scientists and engineers, 50 of them from 24 foreign nations, for graduate studies in the commission's International School of Nuclear Science and Engineering. The school, operated for the AEC by the Argonne National Laboratory (near Chicago) in cooperation with North Carolina State College and Pennsylvania State University, was launched in 1955. It is providing intensive unclassified studies in reactor technology and related subjects pending the establishment of adequate training facilities in regular educational institutions here and abroad.

After a week of general orientation in Washington, D.C., under the auspices of the International Cooperation Administration, which provides financial support for most of the foreign enrollees, the students were divided into two groups that reported, respectively, to Raleigh, N.C., and State College, Pa., for the first 17 weeks of study.

Meanwhile, the third session students

who have completed their work at these two universities have moved on to Argonne, where they will be graduated on 11 Jan. 1957. The fourth session students then will take their places at Argonne. This arrangement, inaugurated with the third session, makes it possible to double the annual total of students that can be accepted for training.

■ A school of dentistry opened this month at Fairleigh Dickinson University, Teaneck, N.J., when 46 students began their first classes. Walter Wilson is dean of the school, which has a faculty of 15.

Grants, Fellowships, and Awards

■ Applications are invited for the \$1600 postdoctoral fellowship of Sigma Delta Epsilon, graduate women's scientific organization. Candidates must have the equivalent of a Ph.D. degree and must be conducting research in the mathematical, physical, or biological sciences.

During the term of her appointment an appointee must devote the major part of her time to the approved research project and not engage in other work for remuneration (unless such work shall have received the written approval of the board before the award of the fellowship). Application blanks may be obtained from Dr. Dorothy Quiggle, Petroleum Refining Laboratory, Pennsylvania State University, University Park, Pa.

■ Nominations for the 1957 Eli Lilly research award in bacteriology and immunology are invited. These should be sent *before 15 Jan. 1957* to Dr. Alan W. Bernheimer, New York University College of Medicine, New York 16, N.Y., chairman of the Lilly award nominating committee.

No reprints or manuscripts should be offered. Four copies of all material should be submitted and must include the following: month, day, and year of birth; curriculum; list of publications; specific reference to the research on which the nomination is based; and supporting letters, if possible.

To be eligible a nominee must be less than 35 years of age on 30 Apr. 1957. For the purpose of this award, outstanding research is understood to be that which is of unusual merit in the younger age group. The research is not to be judged in comparison with the work of more mature and experienced workers.

■ The Lipotropic Research Foundation of New York will receive applications for grants-in-aid for 1957 *until 1 Nov.*, with special attention being given to clinical studies. A request for application forms, which should include a short statement describing professional affiliations