

teachers into such physics classes it is recommended that the courses be organized at the level of the teacher's preparation and with his needs in mind; that arrangements be made with the Graduate Schools and Departments of Education which will permit the use of credit in these courses toward the master's degree in Education. The courses should be taught by members of the departments of physics and should receive the active sponsorship of those departments."

Duke's Engineering Program

Duke University will inaugurate new programs of graduate study in civil and mechanical engineering next fall. The additional courses will augment graduate study courses in electrical engineering that were added last September. The new graduate engineering programs in the College of Engineering will each lead to the master of science degree.

Scientists in the News

EDGAR ANDERSON, Engelmann professor of botany at Washington University (St. Louis) and director of the Missouri Botanical Garden, has become curator of useful plants at the garden. A grant of \$14,000 from the Guggenheim Foundation will allow him to explore the possibilities of extending his techniques for the measurement of variation to various kinds of organisms and various kinds of problems. Until April, he is the guest of the mathematics department at Princeton University, where he is working with John Tukey.

CLAUDIO ALVAREZ-TOSTADO, professor of physical sciences at Stanford University, is spending the current academic year on the faculty of the University of San Andres in La Paz, Bolivia, as a visiting professor of chemistry. His stay with the South American institution is being financed by the Department of State's International Educational Exchange Program.

HANS KRAESSIG, a German cellulose chemist who was associated for several years with Nobel laureate Herman Staudinger at the University of Freiburg, will head the new department of cellulose research at Industrial Cellulose Research Limited, Montreal, Canada, a subsidiary of the Canadian International Paper Company.

JOHN H. GAETH, former director of the Hearing Clinic at Northwestern University, has been named professor of speech and director of the Hearing Clinic at Wayne State University.

SAUL WINSTEIN, professor of chemistry at the University of California, is the Baker lecturer in chemistry at Cornell University for the spring term. He is lecturing twice weekly on "Neighboring groups, solvolysis, and rearrangement."

ROBERT C. JAMES, associate professor of mathematics at Haverford College, has been named professor and chairman of the mathematics department of Harvey Mudd College, Claremont, Calif. Coauthor with his father, Glenn James, of *A Mathematics Dictionary*, James has participated in studies administered by the Ford Foundation to discover ways of teaching college mathematics to selected high-school students. His research has included investigation of the implications of the existence of bases for Banach spaces.

IRVIN W. SIZER has been appointed head of the department of biology at the Massachusetts Institute of Technology. Sizer, who has taught physiology and biochemistry at M.I.T. since 1935, had been serving as executive officer and acting head of the department. He is well known for his studies of the fundamental properties and medical applications of enzymes.

F. W. SCHUELER has been appointed professor and chairman of the department of pharmacology at the Tulane University School of Medicine.

LLOYD J. ROTH has been named chairman of the department of pharmacology at the University of Chicago. He succeeds EUGENE M. K. GEILING, Frank P. Hixon distinguished service professor, who is retiring after 20 years as head of the department.

ARTHUR E. RUARK, Temerson distinguished service professor of physics at the University of Alabama, has been named chief of the controlled thermonuclear branch in the Division of Research, U.S. Atomic Energy Commission. He will administer the research program that is known as "Project Sherwood." He succeeds AMASA S. BISHOP, who recently became the commission's technical representative of the American Embassy in Paris.

Another AEC appointment is that of PAUL C. FINE as director of the Office of Operations Analysis and Planning. This office, which is a division of the general manager's office, is responsible for engineering and economic analysis of major technical programs and for coordinating long-range plans. Last year Fine, who joined the AEC staff in 1947, served as assistant to the late John von Neumann.

THOMAS H. PIGFORD, associate professor of nuclear and chemical engineering at Massachusetts Institute of Technology, has joined the General Dynamics Corporation's General Atomic Division. He will be chairman of the department of reactor engineering of General Atomic's John Jay Hopkins Laboratory for Pure and Applied Science. Though he has specialized in the nuclear, mechanical, and chemical design of power reactors, Pigford also has worked in the fields of isotope separation, purification of special reactor materials, and reprocessing of irradiated nuclear fuels.

The Kresge-Hooker Science Library Associates and the department of chemistry at Wayne State University have announced the spring schedule for the Frontiers in Chemistry lecture series. The following guests will lecture at 7:15 P.M. in the Kresge Science Library Building (Detroit).

25 Feb., T. S. WHEELER, University College, Dublin, Ireland, "Unsolved problems in flavonoid chemistry"; 11 Mar., THOMAS SINGER, Edsel B. Ford Institute for Medical Research, Detroit, Mich., "Metal-flavoprotein catalysis"; 18 Mar., STANLEY BRUCKENSTEIN, University of Minnesota, Minneapolis, Minn., "Acid-base reactions in glacial acetic acid"; 22 Mar., E. R. H. JONES, Oxford University, Oxford, England, "Some aspects of allene chemistry"; 1 Apr., D. H. R. BARTON, University of Glasgow, Glasgow, Scotland, "Some recent advances in the chemistry of sesquiterpenoid lactones"; 15 Apr., MILTON BURTON, University of Notre Dame, Notre Dame, Ind., "Radiation Chemistry"; 29 Apr., MICHAEL J. S. DEWAR, Queen Mary College, University of London, London, England, "Aromatic substitution"; 6 May, RONALD S. NYHOLM, University College, London, England, subject to be announced.

HANS H. WEBER, director of the Institute of Physiology in the Max Planck Institute for Medical Research, Heidelberg, Germany, will deliver three lectures on "The motility of muscle and cells" in New York next month under the sponsorship of the Muscular Dystrophy Associations of America, Inc. The lectures have been scheduled as follows: 4 Mar., 5 P.M., Columbia Medical Center, "The phenomena and conditions in the interior of the muscle fiber during contraction and relaxation"; 6 Mar., 4 P.M., Rockefeller Institute for Medical Research, "Facts and theories concerning the mechanism of the contraction phase of the muscle"; 8 Mar., 5 P.M., New York University Washington Square Center, "The four mechanisms involved in the movement of cells."