

A reception in the corridors of the Eastman School of Music is to follow the lecture. On Thursday evening the address is by Dr. Carl Snyder, for many years statistician of the Federal Reserve Bank of New York and formerly president of the American Statistical Association, on the subject, "The Rôle of Capitalism in Civilization."

On Friday morning members will proceed by train or auto to Ithaca to join in celebrating the semi-centennial of Sigma Xi. All those in attendance at the Rochester meeting have been invited by Sigma Xi to participate in the Ithaca program, which will include addresses on Friday afternoon and Saturday morning as well as a complimentary dinner given to delegates and visitors by the Cornell Chapter on Friday evening. This will be followed by the semi-centennial address on "Scientific Research and Social Progress."

The hotel headquarters of the association will be at the Seneca. All hotels will cooperate with the association for the meeting. Members desiring accommodations will communicate directly with the hotels. The following rates will apply:

*Seneca*: Single, \$3-\$4.50; double, \$3.50-\$6; twin-beds, \$4-\$7. Rooms with running water: Single, \$2.50; double, \$3.50-\$4.

*Powers*: Single, \$2-\$4; double, \$3-\$6; twin-beds, \$6-\$7. Rooms with running water: Single, \$2; double, \$3.

*Rochester*: Single, \$2.50-\$4; double, \$4-\$6; twin-beds, \$5-\$6.

*Sagamore*: Single, \$3.50-\$5; double, \$5; twin-beds, \$6-\$7.

*Hayward* (especially desirable for parties coming "stag"): Single, \$2-\$3.50; double, \$3.50-\$6.

In addition to the hotel rooms listed above, there will be available a hundred rooms in the university dormitories on the River Campus for June 16, 17 and 18. These will be reserved for men only at \$1.00 per day as long as the supply lasts. Requests for reservations for these dormitory rooms may be made to the General Superintendent of Buildings and Grounds, University of Rochester. To insure accommodations being held in the dormitories, a check for \$3.00 (for three nights' occupancy) should accompany the reservation. This will be returned if notice to cancel is received on or before June 12.

Transportation from the city hotels to the campus is direct and will be easily effected. Railroad rates to

Rochester can not be announced as yet, but some provision will be made and published notice given later. The regular preliminary announcement of the meetings with details will appear in *SCIENCE* early in May.

### RECENT DEATHS AND MEMORIALS

DR. ARTHUR BALDWIN DUEL, of New York City, aural surgeon, chairman of the Board of Surgeons and vice-president of the Manhattan Eye, Ear and Throat Hospital, died on April 11 at the age of sixty-five years.

DR. JOHN URI LLOYD, of the Lloyd Brothers Pharmaceutical Company of Cincinnati, formerly president of the Cincinnati College of Pharmacy, died on April 9. He was eighty-six years old.

F. S. WILKINS, research assistant professor of agronomy at Iowa State College, died on March 31 at the age of forty-six years. Since his appointment to the staff at Iowa State College in 1915 he had been in charge of forage crops investigations. The results of his research have been published in a number of experiment station bulletins and journal articles.

DR. ROBERT BÁRÁNY, specialist in diseases of the ear and throat, Nobel laureate in medicine in 1914, died in Upsala, on April 8, at the age of sixty years.

MAURICE THÉODORE HAMY, since 1898 astronomer at the Paris Observatory, a member of the Paris Academy of Science, died on April 10. He was seventy-five years old.

A MEMORIAL service has been held in the great choir of the Washington Cathedral in honor of Dr. William H. Wilmer, formerly head of the Wilmer Institute of the Johns Hopkins Hospital.

A MEMORIAL meeting for Ivan Pavlov, the Russian physiologist, was held in the State Office Building, St. Paul, on April 7, under the auspices of labor leaders, Wahlfried Engdall, Carpenters Local Union No. 7, presiding. The speakers were: The Man: Professor Rodney B. Harvey, plant physiology, University Farm, Minnesota. The Biologist: Professor Dwight E. Minnich, department of zoology, University of Minnesota. The Psychologist: Dr. John G. Rockwell, state commissioner of education. The Physiologist and Russian Medicine: Dr. Elias P. Lyon, dean of the Medical School, University of Minnesota. Biology and Economics: E. H. H. Holman.

## SCIENTIFIC NOTES AND NEWS

DR. RUDOLPH MATAS, honorary chief of the surgical service at Touro Infirmary, was presented with a decoration and the title of commander of the National Cuban Order of Carlos Finlay and a diploma of honorary fellowship in the Academy of Medicine of

Havana, at the recent annual meeting of the South-eastern Surgical Congress in New Orleans. The presentation was made by Dr. Charles Edward J. Finlay, Havana, Cuba, son of Dr. Carlos Finlay.

At the meeting of the Society of Experimental Psy-

chologists at Clark University on April 9 and 10, the first award of the Howard Crosby Warren Medal was made jointly to Professor Ernest G. Wever and Dr. Charles W. Bray, of Princeton University, "for their studies of auditory nerve responses in reptiles and insects, following up their similar work on mammals, the whole research constituting an outstanding contribution to the study of auditory function." The medal was founded by Mrs. Warren in memory of her husband, Professor Howard Crosby Warren, the first chairman of the Society of Experimental Psychologists and for many years professor of psychology at Princeton University. The medal is to be awarded annually by the society "for outstanding work in experimental psychology in the United States or Canada published during the five years preceding the time of the award."

CHARLES CRAWFORD GORST was presented with the annual medal of the John Burroughs Association on the occasion of the celebration of his birthday which recently took place at the American Museum of Natural History. Dr. Clyde Fisher, curator of the Hayden Planetarium and of astronomy at the museum, presented the medal to Mr. Gorst with the explanation that the board of directors of the association had departed from tradition for the 1936 award in honoring Mr. Gorst "for the special recognition of his unusual art of interpreting bird songs." After an illustrated lecture in which Dr. Fisher recalled scenes from the life of Burroughs, Mr. Gorst spoke on birdlore and described his work.

THE Bessemer Gold Medal for 1936 of the British Iron and Steel Institute has been awarded to Fred Clements, director of the Park Gate Iron and Steel Company, Rotherham, in recognition of his distinguished services in improving the technology of the iron and steel industries and, in particular, blast-furnace practice.

PROFESSOR LEO FROBENIUS, director of the Research Institute for Cultural Morphology at Frankfurt-on-Main, has been awarded the Bernhard-Hagen Medal by the Frankfurt Society for Anthropology, Ethnology and Primeval History.

THE degree of LL.D. will be conferred by the University of Edinburgh on Sir Thomas Hudson Beare, regius professor of engineering and dean of the Faculty of Science in the university; on Dr. Mervyn Henry Gordon, consulting bacteriologist; on Sir William McKechnie, permanent secretary, Scottish Educational Department; and, as previously announced, on Professor E. L. Thorndike, of Teachers College, Columbia University.

DR. ISAIAH BOWMAN, president of the Johns Hopkins University, and thirty students were initiated into

the Johns Hopkins Chapter of the Phi Beta Kappa Society on April 17. Initiation ceremonies followed a dinner, at which Dr. Bowman spoke. Officers of the chapter are: Dr. J. B. Whitehead, professor of applied engineering and dean of the faculty of engineering, *president*; Dr. Lewis H. Weed, professor of anatomy and director of the school of medicine, *vice-president*; Dr. Hazelton Spencer, *secretary*, and Dr. A. E. Blumberg, *treasurer*.

DR. LEONARD CARMICHAEL, professor of psychology and director of the psychological laboratory at Brown University, has been appointed dean of the college and head of the department of psychology at the University of Rochester. Dr. Carmichael will be succeeded at Brown University by Dr. Walter Samuel Hunter, G. Stanley Hall professor of genetic psychology at Clark University. Dr. Raymond Royce Willoughby, of Clark University, will accompany Dr. Hunter to Brown University as research associate in psychology, and Dr. Edward Harris Kemp, of Harvard University, has been appointed instructor.

JOHN M. LESSELLS, consulting mechanical engineer, of Swarthmore, Pa., editor of *The Journal of Applied Mechanics*, has been appointed associate professor of mechanical engineering at the Massachusetts Institute of Technology.

DR. FRANK FREMONT-SMITH resigned on February 1 as assistant professor of neuropathology at the Harvard Medical School.

DR. J. S. BAXTER, assistant professor of anatomy and acting head of the department at McGill University since 1934, will leave next month for England, where he will join the staff of the University of Cambridge. Dr. Baxter will take several months' holiday before taking up his new work.

THE Post-Graduate Medical Institute at Leningrad has created a chair for the pathology and physiology of nervous activity, under the direction of K. Petrova, a pupil and collaborator of the late Professor Pavlov.

DR. EDWARD S. GODFREY, JR., New York State assistant commissioner of health, was nominated by Governor Herbert H. Lehman on April 6 as state commissioner of health, to succeed Dr. Thomas Parran, Jr., who resigned to become surgeon general of the United States. The nomination was sent to the Senate for confirmation and has been referred to the Finance Committee. Dr. Godfrey was appointed a sanitary supervisor of the department in July, 1917, by Dr. Hermann M. Biggs, then commissioner of health. He subsequently served as epidemiologist and later until 1931 as director of the division of communicable diseases.

DR. MAURICE C. HALL, chief of the Zoological Divi-

sion of the Bureau of Animal Industry of the U. S. Department of Agriculture, and three associates have been transferred to the National Health Service. Dr. Hall will become chief of the Division of Zoology. Those who accompany him to his new work are Dr. Eloise B. Cram, Dr. Myrna Jones and Dr. John Bozicevich. Dr. Benjamin Schwartz, formerly assistant chief of the Zoological Division in the Bureau of Animal Industry, is now acting in charge.

JAMES MOFFITT, of San Francisco, has been appointed curator of ornithology and mammalogy in the Museum of the California Academy of Sciences to fill the position left vacant through the recent death of Harry S. Swarth.

DR. CRANFORD HUTCHINSON and Dr. Edward McCrady, Jr., fellows of the Wistar Institute, Philadelphia, have been advanced to the rank of associates of the institute.

DR. ROBERT B. GORDON, of the department of botany of the Ohio State University, has been made director of the Allegany School of Natural History, which will hold its tenth session from July 5 to August 22. Conducted by the Buffalo Society of Natural Sciences, in cooperation with the New York State Museum and in affiliation with the University of Buffalo, the school provides seven-week field courses with college credit in the University of Buffalo.

DR. S. C. WHITLOCK, assistant professor of veterinary anatomy of the Iowa State College, has resigned to accept a position as veterinarian with the Michigan State Board of Wild Life Conservation.

JAMES W. BURCH, assistant director in charge of the extension service of the Missouri College of Agriculture, and four Missouri farmers have been appointed by Mr. Wallace, Secretary of Agriculture, members of a state board that will pass on soil conserving crop diversions and set standards for soil-building practices in Missouri under the new farm program.

PROFESSOR FRANK B. HOWE, who has had leave of absence from Cornell University, has resigned as coordinator of the Federal Soil Conservation Service in New York State, and has returned to the university.

DR. ALEŠ HRDLIČKA, curator of physical anthropology at the Smithsonian Institution, will leave Seattle, Wash., on May 16 for his fifth summer of research into the past of the American Indian on Kodiak Island, off the Alaskan coast.

C. JUDSON HERRICK, emeritus professor of neurology at the University of Chicago, will deliver the fourteenth Pasteur lecture of the Institute of Medicine of Chicago on Friday evening, April 24, at Northwestern University. His subject will be "Neurobiological Foundations of Modern Humanism."

DR. HANS ZINSSER, professor of bacteriology at the Harvard Medical School, spoke on April 3 before Tulane University Chapter of Sigma Xi. The lecture was entitled "Studies on Immunity in Relation to Filterable Viruses."

THE GEHRMANN lectures of the College of Medicine of the University of Illinois for 1935-1936 will be delivered on April 29, 30 and May 1, by Dr. Victor G. Heiser, formerly director for the Far East of the International Health Board of the Rockefeller Foundation. The titles of the lectures are: "Coordination of Disease Control throughout the World by the League of Nations"; "International Research in Leprosy"; and "Dietary Opportunities in Preventive Surgery."

PROFESSOR R. HÖBER, in collaboration with Professors M. H. Jacobs and L. V. Heilbrunn, together with representatives from the departments of botany, biophysics, physics, chemistry, pathology, bacteriology and experimental medicine, will give a course in advanced general physiology at the University of Pennsylvania next year. Professor Höber was formerly head of the department of physics and rector of the University of Kiel. He is the author of "Die physikalische Chemie der Zelle und Gewebe," now in its sixth edition.

CURATOR FRANK E. LUTZ, Dr. W. J. Gertsch and Wm. C. Wood, of the American Museum of Natural History, spent February and March in field work on the butterflies and moths of Panama. Two regions were selected in which to do intensive collecting. One was Barro Colorado, the large island in Gatun Lake, Canal Zone. It is almost entirely covered by a rather dense jungle typical of the low hills near sea-level in Central America and is the laboratory of the Institute for Research in Tropical America. The other was on the western slope of the Volcano (extinct) of Chiriqui near the Costa Rican border. Headquarters there were at an altitude of about 4,200 feet. In addition to the high-altitude jungle, this region has a large area of naturally open country. It furnished a good contrast with Barro Colorado. The faunas of the two regions differ markedly, a condition which not only resulted in the expedition's getting a large range of species for the museum's collection but also will, it is hoped, help in understanding the geographic distribution of insects in Central America.

THE installation of the sixty-eighth chapter of the Society of Sigma Xi at the University of Buffalo will be held on April 25. Among those to appear on the installation programs are: Professor William F. Durand, of Stanford University; Professor Edward Ellery, of Union College, and Dean F. K. Richtmyer, of the Graduate School of Cornell University. The

formal installation ceremonies include presentation of the charter to the new chapter, initiation of new members, election of officers and adoption of a constitution. Professor Durand, who is president of the national society, and Professor Ellery, secretary, will be the installing officers. Dr. Durand will deliver the charge to the new chapter, and the response will be made by Professor Gehman, president of the old Sigma Xi Club. Following the installation ceremonies the installation banquet will be held. The speakers will be Chancellor Samuel P. Capen, Professor Durand and Professor Ellery. Delegates from other chapters and other universities will be present. The Sigma Xi Lecture will be delivered in the evening by Professor F. K. Richtmyer, whose topic will be, "Science in the Service of Society."

THE seventeenth annual meeting of the American Geophysical Union, established to promote the study of problems concerned with the figure and physics of the earth; to initiate and coordinate researches which depend upon international and national cooperation, and to provide for their scientific discussion and publication, will meet on April 30 and May 1 and 2, in the buildings of the National Academy and Research Council, the U. S. Geological Survey and Georgetown University.

THE New York Geographical Association will hold its second annual meeting at Syracuse University on

May 2. Professor Griffith Taylor, of Toronto, and Professor Stanley Dodge, of Michigan, will be the guest speakers.

THE Field Conference of Pennsylvania Geologists and the New York State Geological Association will hold a joint excursion in the Pennsylvania anthracite region from May 22 to 24. The party will assemble in Scranton on Friday morning. The afternoon will be spent in the Northern Field. The Middle Field between Wilkes-Barre and Pottsville will be visited Saturday. The party will study the Southern Field on Sunday. Friday night will be spent in Wilkes Barre and Saturday night in Pottsville. Any geologist intending to join the party is requested to notify the secretary, Dr. Lawrence Whitcomb, Lehigh University, Bethlehem, Pa.

AT a recent meeting of the Josiah Macy, Jr., Foundation, its treasurer, Robert E. Allen, vice-president of the Central Hanover Bank and Trust Company, announced the receipt of an additional gift of \$200,000 from Mrs. Kate Macy Ladd, who established the foundation in 1930 in memory of her father. It was reported also that since its establishment the foundation had distributed approximately \$700,000 for grants in aid. These grants have been primarily for basic research in medicine and allied fields. The recent gift will be used for the support of activities in progress under subvention of the foundation.

## DISCUSSION

### BEQUEST OF PAVLOV TO THE ACADEMIC YOUTH OF HIS COUNTRY<sup>1</sup>

WHAT can I wish to the youth of my country who devote themselves to science?

*Firstly*, gradualness. About this most important condition of fruitful scientific work I never can speak without emotion. Gradualness, gradualness and gradualness. From the very beginning of your work, school yourselves to severe gradualness in the accumulation of knowledge.

Learn the ABC of science before you try to ascend to its summit. Never begin the subsequent without mastering the preceding. Never attempt to screen an insufficiency of knowledge even by the most audacious surmise and hypothesis. Howsoever this soap-bubble will rejoice your eyes by its play it inevitably will burst and you will have nothing except shame.

School yourselves to demureness and patience.

<sup>1</sup> Written just before Pavlov's death, at the age of eighty-seven years, on February 27, 1936. Translated from the Russian by Professor P. Kupalov, chief assistant in the Pavlov Institute at Leningrad.

Learn to inure yourselves to drudgery in science. Learn, compare, collect the facts!

Perfect as is the wing of a bird, it never could raise the bird up without resting on air. Facts are the air of a scientist. Without them you never can fly. Without them your "theories" are vain efforts.

But learning, experimenting, observing, try not to stay on the surface of the facts. Do not become the archivists of facts. Try to penetrate to the secret of their occurrence, persistently search for the laws which govern them.

*Secondly*, modesty. Never think that you already know all. However highly you are appraised, always have the courage to say of yourself—I am ignorant.

Do not allow haughtiness to take you in possession. Due to that you will be obstinate where it is necessary to agree, you will refuse useful advice and friendly help, you will lose the standard of objectiveness.

*Thirdly*, passion. Remember that science demands from a man all his life. If you had two lives that would be not enough for you. Be passionate in your work and your searchings.