

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.