

erally made for assistance in completing research projects that are well under way and for which valuable conclusions within limited periods may reasonably be expected. Often they complete the requirements for funds which have been partly met by the institutions with which the applicants are associated or from other sources.

Section I (Psychology) of the association will meet in Richmond, Va., from Tuesday, December 27, to Thursday, December 29. In addition to the usual program of contributed papers, there will be, on Wednesday, December 28, a symposium on "Recent Advances in the Psychology and Physiology of Audition" under the chairmanship of Dr. Elmer A. Culler, University of Rochester.

Since the change of the date of the meetings of the American Psychological Association from Christmas to

September, attendance at the meetings of Section I has steadily increased. It is hoped that a large number of psychologists will attend and participate in the Richmond meetings. The character of the general program must depend on the submitted papers, and members of Section I are urged to send in abstracts. Both theoretical and experimental papers are acceptable.

All fellows and members of the section who wish to read papers should submit abstracts in duplicate (not more than 300 words in length) of the papers which they wish to present. Please note on the abstracts the time required for presentation up to a limit of 15 minutes. Abstracts should reach the section secretary, Leonard Carmichael, Tufts College, Medford, Massachusetts, not later than November 11.

F. R. MOULTON,
Permanent Secretary

SCIENTIFIC NOTES AND NEWS

THE Perkin Medal of the Society of Chemical Industry for achievement in industrial chemistry has been awarded to Dr. Walter S. Landis, vice-president of the American Cyanamid Company.

DR. NEVIN M. FENNEMAN, professor of geology and geography at the University of Cincinnati, will be presented with the gold medal award of the Geographic Society of Chicago on October 22 at the annual post-vacation luncheon of the society.

AT the opening exercises of the Medical School of the University of Michigan on October 1, the degree of doctor of science was conferred upon Dr. Peyton Rous, member of the Rockefeller Institute for Medical Research, New York, who delivered the convocation address.

The Harvard Alumni Bulletin reports that in honor of Dr. Walter B. Cannon, George Higginson professor of physiology at the Harvard Medical School and national chairman of the Medical Bureau to Aid Spanish Democracy, a fund is being raised by his friends for relief work in Spain. The money will be sent this month, together with a portrait of Dr. Cannon, to Dr. Juan Negrin, premier of Spain, professor of human physiology at the University of Madrid and director of the physiological laboratory of the Ramón y Cajal Institute, a friend of Dr. Cannon.

DR. ALBRECHT PENCK celebrated his eightieth birthday on September 25. Professor Penck held for twenty years the chair of geography at the University of Vienna, when in 1906 he was appointed to take charge of the Museum of Marine Studies in the University of Berlin. In 1922 he was made director of the Institute of Geography of the university, becoming emeritus in 1927.

It is reported in *Nature* that Professor Alfred Kühn, director of the Kaiser-Wilhelm Institute of Biology, Berlin; Dr. Hugo Hassinger, professor of geography at the University of Vienna, and Dr. Hans Ahlmann, professor of geography at Stockholm, have been elected members of the Prussian Academy of Sciences in the physico-mathematical class.

DR. HAROLD C. UREY, professor of chemistry at Columbia University, will give the George F. Baker lectures in chemistry at Cornell University for the academic year 1938-39 in November and December. Dr. G. B. Kistiakowsky, of the department of chemistry at Harvard University, will be Baker lecturer in February and March, and Dr. P. W. Bridgman, professor of physics at Harvard University, will lecture in April and May.

DR. THOMAS FRANCIS, JR., member of the staff of the International Health Division of the Rockefeller Foundation, in charge of research on influenza, has been appointed professor of bacteriology in the New York University College of Medicine. The chair in bacteriology became vacant recently when Dr. William S. Tillett was assigned to the professorship of medicine formerly occupied by the late Dr. John Wyckoff.

DR. HIRAM BENTLEY GLASS, of Stephens College, Columbia, Mo., has been appointed assistant professor of biology at Goucher College, Baltimore.

DR. S. C. WERCH, demonstrator in physiology at the School of Physic, Trinity College, Dublin, has been appointed instructor in the department of pharmacology in the Medical College of the State of South Carolina.

DR. W. G. CLARK, of the Scripps Metabolic Clinic, La Jolla, Calif., has been appointed instructor in the department of zoology at the University of Minnesota.

DR. I. M. KOLTHOFF was referred to in a recent issue of *SCIENCE* as head of the department of chemistry at the University of Minnesota. His correct title is chief of the division of analytical chemistry.

R. W. TRULLINGER, principal experiment station administrator and agricultural engineer, who has been associated with the Office of Experiment Stations of the U. S. Department of Agriculture since 1912, has been appointed to the newly established position of assistant chief. His work will be, in association with the chief, to "direct and supervise the administration of the Federal Acts granting funds to the states for research with all correlated responsibilities and to assume leadership in the maintenance of desirable research relationships between states and between state and Federal agencies with respect to these Federal-grant Acts."

H. C. SAMPSON retired from the post of economic botanist at the Royal Botanic Gardens, Kew, on September 30. He is succeeded by Sir Geoffrey Evans, who is retiring from the post of principal of the Imperial College of Tropical Agriculture, Trinidad. He has in turn been succeeded in the principalship by O. T. Faulkner, director of agriculture in Nigeria.

DR. M. S. KRISHNAN has been appointed assistant director of the Geological Survey of India. He is the first Indian to be appointed to this post.

THE following fellows in the medical sciences, appointed by the Medical Fellowship Board of the National Research Council during the year 1938-39, have commenced their fellowship appointments: Louis K. Alpert, at the Rockefeller Institute for Medical Research; Philip P. Cohen, at the University of Sheffield (England); Thomas H. Davies, at California Institute of Technology; Carl L. Larson, at the University of Rochester; Arthur P. Richardson, at the Johns Hopkins University; Jane A. Russell, at Yale University; Wilfred W. Westerfeld, at the University of Oxford.

DR. W. F. PROUTY, head of the department of geology of the University of North Carolina, has been made a member of the Board of Consultants of the Tennessee Valley Authority in place of Professor W. J. Mead, of the Massachusetts Institute of Technology, who recently resigned.

DR. PAUL R. CANNON, professor of pathology of the University of Chicago, has been appointed a member of the Medical Fellowship Board of the National Research Council for the period ending June 30, 1941, to complete the unexpired term of Dr. Eugene L. Opie, who has resigned.

ELMER H. JOHNSON, industrial geographer in the Bureau of Business Research of the University of Texas, has been given leave of absence to make a study

of regional industrial development in a group of southeastern states.

DR. FOREST RAY MOULTON, permanent secretary of the American Association for the Advancement of Science, will open the annual lecture series of the Louisiana State University chapter of Phi Kappa Phi on October 27.

At the inauguration of the one hundred and fourteenth annual session of the Jefferson Medical College, Philadelphia, the introductory lecture was delivered by Dr. Charles M. Gruber, professor of pharmacology, on "Research, the Key to Progress."

SIR EDWARD MELLANBY will deliver the Harveian Oration to the Royal College of Physicians of London on October 18.

THE two hundred and twenty-third regular meeting of the American Physical Society will be held at the University of Chicago on Friday and Saturday, November 25 and 26. The headquarters hotel will be the Hotel Windermere.

THE annual meeting of the Air Hygiene Foundation will be held on November 17 at the Mellon Institute, Pittsburgh. The program includes progress reports on the research for preventing industrial disease and improving the health of employees. Other reports, for industrial management, will cover legal, economic and social phases of industrial health.

THE fifth annual meeting of the New York State Geographical Association will be held at the State Teachers College at Buffalo on November 5. In the morning session, papers on the geography of New York State will be presented. A field trip is planned for the afternoon, with a banquet and an invited speaker for the evening.

BRADFORD WILLARD, press secretary of the Pennsylvania Academy of Science, reports that the regular summer meeting of the academy was held on August 12 and 13 in Chester County. Seventy-five members and guests attended. The academy assembled at Coatesville on the twelfth in the afternoon and proceeded on a field trip. Two hours were spent in the du Pont Longwood Gardens, where items of unusual botanical interest were observed. From the gardens, the trip continued through the region of ancient, crystalline rocks where both geology and botany proved interesting. Particularly striking was the difference between the vegetation of the serpentine barrens and intermingled areas of pegmatite. A business meeting and reception occupied the evening. The last day was devoted to further field studies. The first stop was the arboretum of the Westtown School. Following that parties visited the serpentine barrens, Woods Chrome Mine and other points, chiefly of in-

terest to the mineralogist and botanist. The Chester County Natural Historical Society, Dr. E. T. Wherry, of the University of Pennsylvania, and Dr. E. M. Gress, state botanist of Pennsylvania, were largely responsible for the successful planning and conducting of the meeting and field trips.

THE fourth annual fall Field Camp of the department of geology and geography of Syracuse University was held in the vicinity of Catskill, New York, from September 12 to 17, under the direction of Dr. George B. Cressey, chairman of the department. Headquarters were at the Kiskatom, a country hotel near Palenville.

THE first meeting of the London Scientific Film Society was held on September 20. The society plans to give a series of shows of scientific films to its members and their guests during the coming season. Professor Sir Frederick Gowland Hopkins, Sir William Bragg, Professor L. Hogben and Professor Julian Huxley are patrons of the society, which has about a hundred and fifty members.

GEORGE A. HORMEL AND COMPANY, of Austin, Minn., has made an annual grant of \$25,000 to the University of Minnesota to establish the Hormel Research Foundation for the promotion of researches in the field of food technology. Most of the research will be devoted to problems of importance to the packing industry. The work will be conducted by a committee consisting of Professors George O. Burr, R. A. Gortner, H. O. Halvorson, Walter M. Lauer and Samuel C. Lind, chairman. The post-doctor of philosophy fellows who will take part in the research in 1938-39 are: Claude

H. Hills (biochemistry); J. P. Kass (biochemistry); Lewis S. Keyser (organic chemistry) and Floyd C. Olson (industrial bacteriology).

UNDER the terms of the will of the late Miss Grace M. Edwards, of Boston, the president and fellows of Harvard College will receive \$25,000 for the benefit of the Arnold Arboretum.

FREE illustrated lectures at the New York Botanical Garden have been announced for three o'clock on Saturday afternoons as follows: October 1, Rock Garden Construction, A. C. Pfander, assistant superintendent; October 8, Humoring the Garden Soil, T. H. Everett, horticulturist; October 15, Botanists and Human Progress, J. H. Barnhart, bibliographer; October 22, Winter in Oaxaca, W. H. Camp, assistant curator; October 29, Garden Work with Shrubs, P. M. Koster, nurseryman; November 5, Some Important Drug Plants, Professor Wm. J. Bonisteel, Fordham University; November 12, Alpine Flowers of Central Greece, Professor Clarence H. Young, Columbia University, and Mrs. Young; November 19, Origin and Improvement of Plants, A. B. Stout, curator of education and laboratories; November 26, The Romance of Plant Names, H. A. Gleason, head curator and assistant director.

AN Associated Press dispatch dated from Berlin on October 4 reads: "German medical journals no longer may accept articles by Jewish doctors, the Nazi Commissioner for Medical Journalism ordered. The order added that 'our German doctors will subscribe to foreign journals only if they are published by Aryan publishers and edited by Aryan doctors.'"

DISCUSSION

AN INSTANCE OF PROGRESSIVE INDIVIDUATION IN VISUAL FUNCTIONS

THIS is simply an anecdote. It is utterly lacking in scientific control, but, like all such incidents, it had to be "caught on the fly" and taken for what it is worth. At least it serves to illustrate what I mean by individuation in the sensory field.

The incident which I am about to relate concerns my dog, Ponto. In breeding he is three fourths German police and one fourth Scotch collie. I procured him when he was ten weeks old, and till this incident kept him tied most of the time. Occasionally when I was going about the premises I turned him loose, and particularly I did so each morning when I went for my mail at the rural delivery box. This is south of the main entrance to my laboratory. These daily trips were occasions of great joy to Ponto, as he showed by leaping upon me, and especially by taking the lower

end of my cane in his mouth and playing with it, then dropping it only to catch it up again. He obviously regarded my cane and myself as friendly creatures.

This went on for about four weeks, when Ponto had a new and strange experience with me and my cane. Instead of going out of the south door of my laboratory I went out of the west door. Ponto, being free, met me instantly and took the tip of my cane in his mouth as usual. He played about my feet as I walked along till we passed the servants' quarters to the northwest and entered the poultry yard beyond, the poultry yard being so situated as not to be visible from the west door of my laboratory on account of the servants' quarters. When we entered the poultry yard Ponto set upon the hens and gave them a merry chase. To chastise him I reprimanded him loudly and threw my cane at him. He fled precipitately and ran out of danger back to the laboratory.

The next morning Ponto met me as usual at the