

mental diseases; A. T. Henrici, professor of bacteriology, all of the University of Minnesota. Leaders of the discussions will be Perrin H. Long, associate professor of medicine, the Johns Hopkins University; Walter B. Cannon, professor of physiology, Harvard University; Anton J. Carlson, distinguished service professor of physiology, University of Chicago; Detlev W. Bronk, professor and director, Institute of Neurology, University of Pennsylvania; Michael Heidelberger, professor of biochemistry, Columbia University.

Afternoon Session, 2:00 o'clock. "Some Approaches to the Nervous Control of the Organism." Andrew T. Rasmussen, professor of neuro-anatomy, University of Minnesota, *chairman*. Speakers: Irvine McQuarrie, professor of pediatrics, University of Minnesota; Herbert S. Gasser, director, Rockefeller Institute for Medical Research; Detlev W. Bronk, professor and director, Institute of Neurology, University of Pennsylvania; Walter B. Cannon, professor of physiology, Harvard University.

Evening Session, 6:30 o'clock. Harold S. Diehl, dean

of the medical sciences, University of Minnesota, *chairman*. Speakers: Harold S. Diehl, dean of the medical sciences, University of Minnesota; Olaf J. Hagen, class of 1906, Moorhead, Minn.; Donald C. Balfour, director, the Mayo Foundation, University of Minnesota; Dr. George Earl, president of the Minnesota State Medical Association; Richard E. Scammon, distinguished service professor, University of Minnesota.

October 14

Morning Session, 9:00 o'clock. "Anniversary Clinics." William A. O'Brien, director, Postgraduate Medical Education, University of Minnesota, *chairman*. Speakers: Alfred W. Adson, professor of neurosurgery (the Mayo Foundation); Owen H. Wangensteen, professor of surgery; Arlie R. Barnes, professor of medicine (the Mayo Foundation); John L. McKelvey, professor of obstetrics and gynecology; Albert M. Snell, associate professor of medicine (the Mayo Foundation); Cecil J. Watson, associate professor of medicine, all of the University of Minnesota.

SCIENTIFIC NOTES AND NEWS

DR. CHARLES F. SCOTT, professor emeritus of electrical engineering at Yale University, recently celebrated his seventy-fifth birthday. The celebration occurred at New Haven, Conn., under the sponsorship of the Connecticut section of the American Institute of Electrical Engineers. Dr. Scott graduated from the Ohio State University in 1885, and has recently completed a two-year term as president of the national alumni organization. He is the son of the late Dr. William Henry Scott, one-time president of both Ohio and Ohio State Universities.

DR. BRONISLAW MALINOWSKI, professor of anthropology in the University of London and chairman of the Board of Studies, has been appointed visiting professor of anthropology at Yale University for the current college year. Dr. Harold St. John, head of the department of botany at the University of Hawaii, is Bishop Museum visiting professor.

IN the Cornell University Medical College in New York City, Dr. William H. Chambers has been promoted to the rank of associate professor of physiology and Dr. Kendrick Hare to that of assistant professor of physiology. As has been announced in *SCIENCE*, Dr. Joseph C. Hinsey, who has served as professor of physiology and head of the department since 1936, will succeed the late Dr. Charles R. Stockard as professor of anatomy and head of that department. During the present academic year he will also serve as acting head of the department of physiology.

DR. ALBERT B. SABIN, formerly associate of the Rockefeller Institute for Medical Research, has taken up his new work as associate professor of pediatrics at the University of Cincinnati and as fellow of the

Children's Hospital Research Foundation. He will continue his studies on viruses and the filtrable microorganisms of the pleuropneumonia group. One of Dr. Sabin's assistants will be Dr. Joel Warren, of the department of bacteriology of Columbia University, who will be a research associate in the Children's Hospital Research Foundation. Dr. Sabin will receive the Theobald Smith Award of the American Association for the Advancement of Science at its annual winter meeting.

DR. W. H. RIDDELL, associate professor of dairy husbandry and dairy products at Kansas State College, has become head of the department of dairy husbandry at the University of Arizona and at the Experiment Station.

FRANK COLLINS BAKER, since 1918 curator of the Natural History Museum of the University of Illinois, retired on September 1. He plans to devote his time to research. Dr. Leverett Allen Adams has been appointed his successor as curator of the museum and has been promoted to a professorship of zoology.

DR. CHARLES A. STONEBURG, formerly assistant in biochemistry and pharmacology in the Medical School of the University of Rochester, has been appointed instructor in pharmacology at the Medical College of the State of South Carolina to succeed Dr. S. Carl Werch, who has resigned.

DR. LEONARD WING has been appointed assistant professor of game management at the State College of Washington, Pullman. He will be in charge of the wildlife conservation work in the college. This work has been offered at the college since 1927 on a cultural basis. It has been expanded so that in recent

years a full four-year professional curriculum in wildlife conservation has been given.

DR. KONSTANTIN V. PESTRECOV, who for the past two years has been working in the nuclear research laboratory of Columbia University, has been appointed research associate to Dr. Peter V. Karpovich at Springfield College, Massachusetts.

DR. HORACE C. BOLD is a visiting lecturer this year in the department of botany of Barnard College, Columbia University. He will carry on the work of Professor Tracy E. Hazen, who retired last summer after thirty-six years of teaching at the college.

DR. HARRY M. HINES, professor of physiology in the School of Medicine of the University of Iowa, is on leave during the academic year of 1939-40. He is spending the year in the Cornell University Medical College, New York City, where he has been appointed research associate in physiology for the year of 1939-40. Dr. Jane Snow likewise has an appointment as research associate in physiology. Dr. Hines and Dr. Snow are cooperating in investigations which are being made possible by the interest of Dr. John Staige Davis, Jr., of New York City.

THE Rockefeller Foundation has made a grant of \$5,000 in support of the work of Dr. Paul L. Kirk, associate professor of biochemistry in the University of California at Berkeley, for his work in microchemical analysis and its application to biological problems.

THE Committee on Scientific Research of the American Medical Association has made a grant to Dr. Owen H. Wangensteen, professor and head of the department of surgery at the University of Minnesota Hospitals, for a study of the physiologic rationale of operations performed for the relief of duodenal and gastric ulcer.

DR. ROBERT P. FISCHELIS, executive secretary and chief chemist of the Board of Pharmacy of the State of New Jersey, has been appointed a member of the New Jersey State Board of Health. The appointment comes at a time when a new State Food, Drug and Cosmetic Act, similar to the Federal Food, Drug and Cosmetic Act, goes into effect in New Jersey. Because of the more complete control over the manufacture and distribution of drugs, devices and cosmetics provided in the new state law, the legislature amended the State Health Act to add a pharmacist to the Board of Health, and Dr. Fischelis is the first pharmacist to hold this appointment, which is for a four-year term under the amended act.

DR. ROBERT D. COGHILL, assistant professor of chemistry at Yale University, has been appointed chief of the Fermentation Division of the Northern Regional Research Laboratory, Peoria, Ill. He will direct re-

search involving the utilization of bacteria, yeasts and molds as agents for converting wheat, corn and agricultural waste products into chemicals such as alcohols, glycerol acetic and other acids, acetone and other products which may be of industrial or agricultural interest.

P. BURKE JACOBS has been appointed senior chemical engineer in the Agricultural Motor Fuels Division of the Northern Regional Research Laboratory, Peoria, Ill. He will be responsible for that part of the work of the division dealing with the production of industrial alcohol from agricultural materials grown or produced in the United States.

Museum News states that Dr. Walter B. Jones, director of the Alabama Museum of Natural History, has been appointed director of the newly established State Department of Conservation, and W. G. Lunsford chief of the Division of State Parks, Monuments and Historical Sites.

DR. CARL E. GUTHE, lecturer in anthropology, chairman of the Division of Social Sciences and director of the University Museums at the University of Michigan, has been elected a member of the Board of Trustees of the Cranbrook Institute of Science, Bloomfield Hills, Mich.

DR. HORACE W. STUNKARD, professor of biology at New York University, has returned after a year's leave of absence, most of which was spent in the Institut für Schiffs- und Tropenkrankheiten at Hamburg, with short visits to Italy, France and England. He returned to attend the third International Congress of Microbiology held in New York on September 2 to 9, one section of which, protozoology and parasitology, had been organized by him.

DR. CLAUDE E. ZOBELL has returned to the Scripps Institution of Oceanography after spending a year in studying research methods in water biology, during which time he was research associate in limnology at the University of Wisconsin for two semesters and fellow at the Woods Hole Oceanographic Institution for two months.

PROFESSOR ENRICO FERMI, of the department of physics of Columbia University, will address a meeting of the New York Branch of the American Chemical Society on October 6 on "Atomic Disintegrations Produced by Neutrons."

DR. HARALD U. SVERDRUP, director of the Scripps Institution of Oceanography at La Jolla, will give on October 9 one of the annual series of faculty lectures of the University of California at Los Angeles. His subject will be "The Sea off the Coast of California and Its Influence on our Climate."

DR. C. B. VAN NIEL, professor of bacteriology at

Stanford University, spoke at the Iowa State College on September 28 on "Bacterial Photosynthesis."

THE Hepsa Ely Silliman Lectures will be given at Yale University, beginning on December 4, by Dr. Richard Goldschmidt, professor of zoology at the University of California. The subject of the lectures will be "The Material Basis of Evolution." There will be eight lectures as follows: December 4, "The Neo-Darwinian Conception and its Taxonomic and Genetic Background"; December 5, "Microevolution within the Species"; December 7, "Are Subspecies Incipient Species?"; December 8, "The Species"; December 11, "Macroevolution by Large Steps"; and December 12, 14 and 15, "Evolution and the Potentialities of Development, I."

THE Conference on Methods in Philosophy and the Sciences, in celebration of the eightieth birthday of Professor John Dewey, has arranged a symposium on his contributions to method in the philosophy of the arts and sciences, which will be followed by a discussion. This meeting will be held at the New School for Social Research, 66 West 12th Street, New York City, on October 22, at 1:30 P.M. The program is as follows: Professor Arthur E. Murphy, University of Illinois, "Dewey's Work in Philosophy and Logic"; Dr. Hu Shih, Chinese Ambassador to the United States, "Some Further Aspects of Dewey's Philosophy"; Dr. Albert Barnes, the Barnes Foundation, "Dewey's Esthetics," and Professor Walton Hamilton, Yale Law School, "Dewey and the Social Sciences."

THE 1939 convention of the Association of Land-Grant Colleges and Universities will meet on November 15, 16 and 17 at the Willard Hotel, Washington, D. C.

THE annual meeting of the Carolina Geological Society will be held at Spruce Pine, N. C., on October 21 and 22, under the presidency of Professor L. L. Smith, of the University of South Carolina. J. H. Watkins, the Citadel, Charleston, S. C., is vice-president, and Professor Willard Berry, of Duke University, is secretary-treasurer. The pegmatites and associated mineral deposits of that area will be visited under the direction of B. C. Burgess, of the Tennessee Mineral Products Corporation of Spruce Pine.

A SYMPOSIUM on Temperature, its Measurement and Control in Science and Industry will be held in New York City at the Pennsylvania Hotel, on November 2 to 4, by the American Institute of Physics, with the

cooperation of the National Bureau of Standards, the National Research Council and officers and committees of many technical societies. The program is in charge of representative committees of authorities in various fields, who have arranged for a program of a hundred or more papers on scientific and technical subjects, which will be presented in concurrent sessions of selected groups. All those active in science or engineering are cordially invited to attend the sessions and to take part in the discussions of papers. A complete program containing full abstracts of the papers to be presented will be mailed in advance on request to the institute. It is suggested that those who expect to attend will inform the institute and make their hotel reservations early. There will be a registration fee of \$1.00. The chairmen of the committees are Gustav Egloff, A. W. Ewell, C. O. Fairchild, J. D. Hardy, H. F. Mullikin, F. H. Norton, R. B. Sosman, C. B. Veal, H. T. Wensel and G. B. Wilkes. H. A. Barton, director of the institute, is chairman of the main committee.

ACCORDING to the *British Medical Journal* delegates from all parts of Scotland are being invited to attend a conference, dealing with nutrition and education, which is to be held at the rooms of the British Medical Association in Edinburgh on Saturday, October 14, under the auspices of the Scottish Committee against Malnutrition. There will be an afternoon and evening session. Sir John Boyd Orr, director of the Rowett Research Institute, Aberdeen, will be one of the speakers. It is expected that about forty organizations will be represented at the conference. The afternoon session will be devoted to a discussion of "Existing Nutritional Conditions as Compared with Minimum Health Requirements." The evening session will deal with "Malnutrition as it Affects Education."

THE Council of the American Chemical Society has announced that "Alpha Chi Sigma having presented to the society a definite pledge to sponsor the Award in Pure Chemistry in 1940, and having pledged \$1,000 therefor with the expectation that they would shortly be able to assume the obligation for a period of three years, it was moved, seconded and carried that their offer be accepted with thanks and appreciation, and that the regulations heretofore used be continued with the additional proviso that there should be no restrictions as to the 'status of employment of the candidates under consideration.'"

DISCUSSION

ATMOSPHERIC CONTAMINATION

THE purpose of this discussion is to present physical methods for evaluating the concentrations of certain gases and vapors when admixed with atmospheric air.

These methods are limited to compounds such as CO₂, CO, CH₄, etc., which have characteristic absorption bands in the infrared. In view of the fact that some time must elapse before portable apparatus suitable