Missouri, from October 19 to 22, with the Hotel Statler as headquarters. This association is the professional society of sanitarians in North America, and its annual meetings always offer a program of interest to public health workers. Several special features add more than usual interest to this year's program.

In a broad and developing field such as public health, there is danger that its diverse branches will not maintain contact with each other and with the whole. The American Public Health Association, representing as it does all public health specialities, both official and non-official, brings together at its meetings and includes in its programs the various elements, personnel and subjects that go to make up our public health structure. With a view to correlating these elements, it has this year arranged for a greater number of joint sessions and general sessions than is customary.

The association's nine sections—public health administration, laboratory, sanitary engineering, food and drugs, vital statistics, industrial hygiene, child hygiene, health education and publicity, and public health nursing—will have programs of their own consisting of one or more sessions. In addition, in a number of instances two and sometimes four sections will combine to discuss in a joint meeting some outstanding development of interest to the various groups. One subject to be discussed from four angles is the epidemiology of respiratory diseases; another is oyster pollution. There will be also five general sessions participated in by the entire association. In the twenty-seven meetings arranged for, more than one hundred and twenty-five papers and reports are scheduled. These figures do not include luncheon and dinner sessions devoted to particular topics, nor a special session on mental hygiene sponsored by the National Committee on Mental Hygiene.

The local committee on arrangements has provided an attractive program of entertainment including trips to points of general and scientific interest in and near St. Louis, free tickets to the theatre and the traditional reception following the opening meeting. The ladies are especially invited to attend and plans have been made to occupy them during the full period of the meeting.

Members of the association and their families will receive a twenty-five per cent. reduction in railroad fare traveling to and from the meeting. Non-members should make application for reduced fare to Mr. Homer N. Calver, executive secretary, American Public Health Association, 370 Seventh Avenue, New York City. The secretary will also gladly furnish additional information regarding the meeting and the program.

THE AUTUMN MEETING OF THE AMERICAN ELECTROCHEMICAL SOCIETY

THE annual fall meeting of the American Electrochemical Society will be held this year at Chattanooga, Tenn., on September 24, 25 and 26. A number of important papers will be presented by well-known authorities on electrochemical subjects.

This meeting will closely follow completion of the Wilson Dam at Muscle Shoals and the society will take the opportunity to make an inspection trip to this point as part of the program.

In and around Chattanooga there are 378 factories making 1,329 kinds of products. Cheap transportation on the Tennessee River affords easy distribution of these. The Tennessee Electric Power Company now has about 233,000 h.p. available for industries and factories and on completion of the work at Muscle Shoals much additional power will be placed at the service of the Chattanooga district. This supply of cheap power should especially stimulate the growth of the electrochemical industry in this vicinity.

During the fall meeting, headquarters of the American Electrochemical Society will be at the Signal Mountain Hotel, forty minutes' ride from the heart of the city and noted for its beautiful surroundings.

The first two days of the meeting will be taken up with the technical program. The subject of the symposium for this meeting will be "The relation of electrochemistry to the fertilizer industry." Dr. H. C. Parmelee will be in charge of this symposium. Papers will be offered on nitrates, phosphates, hydrogen, potash and other subjects. On Friday a round-table discussion will be conducted on "Electric Ferro Alloys." Mr. Robert Trumbull will be chairman.

On Saturday, September 26, members and guests will spend the entire day at Muscle Shoals. This will afford an unusually fine opportunity to inspect America's largest dam, a development of immense interest to the electrochemical industry. A further program of visits among the local industries and nearby places of interest has been arranged by the local committee, of which Mr. Paul J. Kruesi is chairman.

RESEARCH FELLOWS AT THE CARNEGIE INSTITUTE OF TECHNOLOGY

EIGHT appointments as research fellows and one as research engineer have been made to conduct investigations of problems in mining and metallurgy this coming year in cooperation with the U. S. Bureau of Mines, according to an announcement from the Carnegie Institute of Technology.

The appointees to mining fellowships are: Russell B. Cooper, Johnstown, Pa., University of Pennsyl-

vania; Charles O. Hawk, Felicity, Ohio, Ohio University; Garnet Phillips, Terre Haute, Ind., Rose Polytechnic Institute; Ben E. Hess, Huntington Park, Cal., California Institute of Technology; and H. F. McCullough, Scottdale, Pa., special appointment as research engineer.

The following were named as research fellows in metallurgy: Abraham Grodner, Pittsburgh, Pa., Carnegie Institute of Technology; Ralph B. Norton, Eastondale, Mass., Massachusetts Institute of Technology; Gustave H. Pfeiffer, Terre Haute, Ind., Rose Polytechnic Institute; and E. A. Hertzell, Schuylkill Haven, Pa., Pennsylvania State College.

The research program in mining and metallurgy at the Carnegie Institute for the next college year is announced as a continuation of the cooperative arrangements that have been in effect with the Bureau of Mines in mining for the past five years and in metallurgy for the past two years. Two different advisory boards, composed of coal operators and engineers in the one case, and of steel manufacturers, engineers and metallurgists in the other, have approved the problems to be investigated, and will cooperate financially in carrying out the program.

Problems selected in mining have been assigned as follows:

The composition of tar and oil from the low temperature distillation of coal, by R. L. Brown, organic chemist, Bureau of Mines, and Russell B. Cooper, research fellow.

Study of simple catalytic attachments to electric cap lamps for detecting methane, by W. P. Yant, associate chemist, Bureau of Mines, and Charles O. Hawk, research fellow.

Time-pressure relations in combustion of the fine sizes of coal-dust, by C. M. Bouton, associate research chemist, and Garnet Phillips, research fellow.

A study of the propagation of flame in mixtures of natural gas and air, by H. F. Coward, principal assistant, Safety in Mines Research Board, England; G. W. Jones, associate chemical technologist, Bureau of Mines, and Ben E. Hess, research fellow.

A field study of underground coal-loading machines and mining methods adaptable, by J. W. Paul, mining engineer, Bureau of Mines, and H. F. McCullough, research engineer.

Assignments of the studies in metallurgy are announced as follows:

A study of the cause and control of abnormality of case carburized steels, by C. E. Sims, electrometallurgist, Bureau of Mines, and Ralph B. Norton, research fellow.

A study of the open hearth steel furnace atmosphere in relation to its effect upon refractories, by Frederick W. Schroeder, assistant chemist, Bureau of Mines, and Gustave H. Pfeiffer, research fellow.

A study of the mechanism of corrosion and the factors effective in its control in steam power plant operation, by R. E. Hall, physical chemist, Bureau of Mines, and E. A. Hertzell, research fellow.

Temperature and heat-flow studies in open hearth and electric steel furnaces, by B. M. Larsen, metallurgist, Bureau of Mines, and Abraham Grodner, research fellow.

SCIENTIFIC NOTES AND NEWS

AT the annual meeting of the British Medical Association held at Bath, Dr. Robert George Hogarth was elected president for 1926–27. It was agreed that the annual meeting in 1927 be held in Edinburgh and be part of the Lister centenary celebration.

SIR CHARLES S. SHERRINGTON, president of the Royal Society and Waynflete professor of physiology in the University of Oxford, has been appointed a member of the Medical Research Council, England, to fill the vacancy caused by the retirement of Dr. Henry Head, F.R.S.

THE Baly medal of the Royal College of Physicians of London has been awarded to Dr. R. Magnus, professor of pharmacology at Utrecht.

THE Alfred Ackermann-Teubner Memorial Prize for the promotion of the mathematical sciences has been awarded to Dr. Arnold Kohlschütter, of the Astrophysical Observatory at Potsdam, for his determination of the absolute brightness of stars from the intensity relations of certain spectral lines.

THE Royal Belgian Academy has awarded its decennial prize for applied mathematics for the period 1913–1922 to Professor T. de Donder, for his works on the Einstein theory of gravitation and his "Leçons Thermodynamiques êt de Chimie Physique."

M. GAILLARD, director of the Museum of Natural History at Lyons, has been made chevalier of the Legion of Honor.

WE learn from *Nature* that at a meeting of the Vienna Academy of Sciences on June 12, Dr. Oswald Redlich was reelected president, and Dr. Richard Wettstein vice-president. Dr. William Exner, of Vienna, and Dr. Waldemar Chr. Brögger, of Oslo, were made honorary members. Dr. Niels Bohr, of Copenhagen, Dr. Max von Laue, of Berlin, and Dr. Eugen Korschelt, of Marburg, have been elected foreign corresponding members. The following awards were made: the Lieben prize to Dr. L. Meitner for publications on β and γ rays of radioactive substances; the Haitinger prize to Dr. R. Kremann for work on the electrolysis of metal alloys, and also to Dr. L. Moser for work on quantitative analysis and the purification of gases.