

pointed to research fellowships to make the investigations.

The research fellows, while carrying out their investigations, will be candidates for the degree of master of science to be awarded by the Carnegie Institute of Technology in June, 1930. As in the past, the reports of the studies will be published.

Appointees to research fellowships are Austin Gudmundsen, University of Utah; Bernard A. Jettner, College of Agriculture, Berlin, Germany; George C. Sprunk, Michigan State College; Donald A. Wallace, Iowa University; Boris N. Daniloff, Missouri School of Mines; John A. Heidish, Colgate University; Max W. Lightner, Pennsylvania State College, and Robert B. Meneilly, Grove City College.

Following is a list of the investigations that have been planned:

Fuel Chemistry

A continuation of the Study of the Effect of Fusain and Related Inerts on the Properties of Pittsburgh Coal, with particular Reference to Coking Properties.

A continuation of the Study of the Chemistry of Decay in Relation to Peat and Coal Formation.

A continuation of the Study of the Relation of Particle Size and Temperature to Rate of Burning.

A Study of the Agglutinating Properties of Coal.

Ferrous Metallurgy

Methods of Determining Non-metallie Inclusions.

Viscosity of Open-hearth Slags.

A Study of the Slag System $\text{MnO-Al}_2\text{O}_3$.

A Study of the Slag System $\text{MnO-Al}_2\text{O}_3\text{-FeO}$.

THE MURRY AND LEONIE GUGGENHEIM FOUNDATION

MR. AND MRS. MURRY GUGGENHEIM, of New York City, have announced the formation of the Murry and Leonie Guggenheim Foundation for "the promotion, through charitable and benevolent activities, of the wellbeing of mankind throughout the world." At present the foundation will confine itself to the establishment of clinics for free dental relief work among the children of the five boroughs of New York City. The first clinic will be built in Manhattan at a cost of between \$3,000,000 and \$4,000,000. In time there will be at least one clinic in each borough.

In making this gift, Mr. Guggenheim said:

Mrs. Guggenheim and I, having become thoroughly convinced of the great necessity for dental relief work, especially among the children of our great city, have decided to do what we can along this line. We are prepared to contribute a large sum of money for the construction, equipment and endowment of non-sectarian clinics for the treatment of children whose parents are not in a position to pay for this most important and essential work. Dr. S. S. Goldwater, former commissioner of health of New

York City, has consented to formulate a suitable program. It is our intention to push the work vigorously, with the idea of placing the first unit in operation at the earliest date possible.

In addition to preventive and reparative work, including departments for straightening teeth, the clinics will train dental hygienists for work in public schools and industrial establishments. Efforts will be made to maintain a close affiliation with municipal health and school authorities. It is pointed out that the proposed clinics will benefit the dental profession by affording a new field for graduate study and training.

The charter members of the foundation are, besides Mr. and Mrs. Guggenheim, their son, Edmond A. Guggenheim; Carroll A. Wilson, lawyer; Hartley Robbins, Mr. Guggenheim's secretary, and Dr. S. S. Goldwater.

THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

HAROLD B. SMITH, professor of electrical engineering at the Worcester Polytechnic Institute, Worcester, Mass., and consulting engineer of the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., has been elected president of the American Institute of Electrical Engineers for the year beginning August 1, 1929, as announced at the annual meeting of the institute held at Swampscott, Massachusetts, on June 25, during the annual summer convention of the institute.

Three distinguished American engineers were elected honorary members. These were:

Herbert Hoover, most outstanding American engineer.

Charles F. Scott, engineer and inventor, head of the electrical engineering department of Yale University, past president of the institute.

Charles F. Brush, engineer and scientist, inventor of the arc lamp, Cleveland, Ohio, whose death occurred on June 15, at which time he was being balloted upon. The unanimous vote of the directors of the institute having been received, the directors voted on June 25 to record Dr. Brush's name in the list of honorary members.

Five other Americans and three representatives of foreign countries had previously been elected as honorary members of the institute. The Americans are John J. Carty, Thomas A. Edison, Michael I. Pupin, Ambrose Swasey and Elihu Thomson.

Officers elected were:

Vice-presidents, E. C. Stone, Pittsburgh, Pa.; W. S. Rodman, Charlottesville, Virginia; Herbert S. Evans, Boulder, Colo.; C. E. Fleager, San Francisco, Calif.; C. E. Sisson, Toronto, Ontario. *Directors*, J. E. Kearns, Chicago, Ill.; W. S. Lee, Charlotte, N. C.; C. E. Stephens, New York, N. Y. *National Treasurer*, George A. Hamilton, Elizabeth, N. J. (reelected).