

Technology; Malcolm F. Judkins, University of Washington; Walter O. Krebs, Yale University; W. E. Marshall, Georgia Institute of Technology; Egbert Shetter, Ohio University; James A. Younkins, Penn State College, and Adam H. Hartswick, Penn State College. In addition, C. F. Christopher, research engineer; Frank Morris, analyst, and A. D. Meyer, assistant research engineer, will assist in making special studies in the program of research.

The following studies are planned:

Coal Mining. 1. Relation of particle size and temperature rate of burning; characteristics of flames of powdered coke and coal; 2. The composition of the oils and heavy tar from the distillation of coal at low temperatures; 3. Forms of sulphur in the Pittsburgh Coal Bed; 4. The chemical constitution of regenerated ulmins; 5. Effect of fusian and related inerts on the properties of Pittsburgh Coal with particular reference to coking properties; 6. Chemistry of decay in relation to peat and coal formation.

Metallurgy. A study of the cause and control of abnormality in case carburized steel; 2. Formation and identification of inclusions; 3. Distribution ratio of iron oxide between slag and metal; 4. Method of determining inclusions; 5. Viscosity of open hearth slags, and three studies in plant work relating to the physical chemistry of steel making.

Four of the studies will be financed by the Carnegie Institute of Technology, six by twenty-nine contributing companies representing the metallurgical industries, one by the International Combustion Engineering Corporation, one by the National Coal Association and two by the Pittsburgh Coal Company.

THE FRANKLIN MEMORIAL IN PHILADELPHIA

ANNOUNCEMENT was made on June 22 that a memorial to Benjamin Franklin will be created in Philadelphia on the Parkway at a cost of \$7,000,000 for construction and endowment. This has resulted from a merging of effort by the Franklin Institute of the State of Pennsylvania and the Benjamin Franklin Memorial, Inc.—the latter sponsored by the Poor Richard Club.

The tentative plans call for a monumental building a square in length. Its dominating feature, architecturally, will be a domed structure of the type of the Pantheon in Rome, containing a memorial chamber, in which it is planned to install a statue of Franklin.

Close by this memorial chamber will be housed a museum showing the status of the graphic arts in Franklin's time, and illustrating the development of printing, engraving and paper-making.

The rest of the structure will be devoted to the scientific and technological museum, which the Frank-

lin Institute has been planning, with a library with a capacity for 250,000 volumes, in the field of physical and mathematical sciences—the institute already has 120,000 volumes—two auditoriums and committee rooms and offices for the Franklin Institute.

Already \$3,000,000 is available for the undertaking, including funds of the Franklin Institute and some subscriptions. The executive committee of the Benjamin Franklin Memorial, Inc., expects to raise an additional \$4,000,000. It is planned that about \$4,000,000 shall be spent on construction and \$3,000,000 be devoted to endowment. A five-acre site on the Parkway will be provided by the city, which has the advantage that users of the scientific library, which is to be a feature of the memorial, would find themselves only a stone's throw away from two other important libraries—the library of the Academy of Natural Sciences, especially rich in the biological and geological sciences, and the Free Library.

APPOINTMENTS AT THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH

THE Board of Scientific Directors of The Rockefeller Institute for Medical Research announces the following appointments and promotions:

NEW APPOINTMENTS:

Associates

Dr. Robert R. Hannon.
Dr. Fritz Lange.
Dr. Henry R. Muller.
Dr. Cornelius P. Rhodes.

Assistants

Dr. Robert B. Corey.
Dr. Martin H. Dawson.
Dr. Malcolm Dole.
Mr. Elmer E. Fleck.
Dr. Thomas Francis, Jr.
Dr. Donald C. Hoffman.
Dr. Christopher Johnston.
Dr. Currier McEwen.
Dr. Norman S. Moore.
Dr. James F. Pearey.
Dr. Albert L. Raymond.
Dr. F. Duran Reynals.
Dr. Alexander Bothen.
Dr. Charles A. Slanetz.
Miss Evelyn B. Tilden.

PROMOTIONS:

Associate to Associate Member

Dr. Louis A. Mikeska.

Assistant to Associate

Dr. Edwin L. Gustus.
Dr. Charles H. Hitchcock.
Mr. Thomas P. Hughes.
Dr. William S. Tillett.
Dr. Perrin H. Long.