

THE BRITISH COAL UTILISATION RESEARCH ASSOCIATION

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Some Aspects of Recent Combustion Research in America

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The principal object was to represent B.C.U.R.A. and to present papers by members of the staff at the Third Symposium on Flame and Combustion Phenomena held at the University of Wisconsin from 6th to 11th September, 1948. Over the period 28th August to 23rd September visits were made to various research and other establishments in the field of fuel technology and in view of the relatively short time available attention was focussed mainly on combustion research, and in particular on research into the problem of deposits and corrosion in power plant. The following establishments were visited:

- (1) Bureau of Mines Eastern Experimental Station, College Park, Maryland
  - (2) Bureau of Mines Central Experimental Station, Pittsburgh and the Synthetic Fuel Plant, Bruceston
  - (3) Calumet Power Station of the Commonwealth Edison Co., Chicago
  - (4) Battelle Memorial Institute, Columbus, Ohio
  - (5) Coal Research Laboratory, Carnegie Institute of Technology, Pittsburgh
  - (6) Pennsylvania State College.
- (1) Eastern Experimental Station: Bureau of Mines

The work of the Station is mainly of a metallurgical nature and a good deal of effort is spent investigating froth flotation methods. Dr. A. Berk, with whom the question of deposits and corrosion was discussed, has worked on the analysis of deposits by spectrographic methods and on the analysis of flue gases for SO<sub>2</sub> and SO<sub>3</sub>. He was particularly interested in the chemical method of analysis evolved by B.C.U.R.A. in which iso-propyl alcohol is used as the inhibitor for the oxidation of SO<sub>2</sub> in solution. The method used by Berk and others is a modification of that originally