

fifty-four essays, representing each state, as well as the District of Columbia, the Canal Zone, the Philippines, Porto Rico, Hawaii and Alaska. Selection of the best essays, out of the thousands written in the states and territories, was made by leading educational institutions, such as a state university, or the state department of education.

It is estimated by officials of the board that at least 250,000 pupils of high school grade participated in the contest, and these fifty-four manuscripts, therefore, represent the cream of all papers presented. Essays were written on the subject, "How good roads are developing my community." In many states local prizes were given, as well as state prizes by the institutions conducting the contest.

The scholarship is given by H. S. Firestone, Akron, Ohio, a member of the Highway Education Board. It is intended to defray tuition and expenses of the student in college and is valued at not less than \$4,000. The successful student, to be selected by the judges, may attend any college or university in the United States. It is expected that the judges will reach a decision in time to permit the successful boy or girl to enter college this autumn. The scholarship is given annually for the best essay on a subject pertaining to good roads.

THE ASSOCIATION OF IRON AND STEEL ENGINEERS

THE sixteenth annual convention will be held September 11 to 15, at Cleveland, Ohio. Following is the tentative program:

MONDAY, SEPTEMBER 11

9:30 A.M.

Business session—Election of officers.

2:00 P.M.

Report of Standardization Committees. F. W. Cramer, chairman.

Report of Sub-Committee on Motors. D. M. Petty, chairman.

Report of Sub-Committee on Lighting. R. G. Bauer, chairman.

Report of Sub-Committee on Control. F. W. Cramer, chairman.

Report of Sub-Committee on Cranes: "Résumé of AI&SEE Crane Code." R. S. Shoemaker, chairman.

Report of Sub-Committee on Transmission: "In-

vestigation of Insulators for Steel Mill Service." A. R. Leavitt, chairman.

Report of Electric Development Committee. R. B. Gerhardt, chairman.

Report of Electric Furnace Committee. E. T. Moore, chairman.

Report of Safety Committee. "Safety Organization—General Safety Rules." F. A. Wiley, chairman.

TUESDAY, SEPTEMBER 12

9:30 A.M.

"Generating Station Development": D. B. Rushmore and E. Pragst.

2:00 P.M.

"Electrification of the International Nickel Company's Works for Monel Metal": F. C. Watson.

WEDNESDAY, SEPTEMBER 13

9:30 A.M.

"Steam Turbine Operation": L. W. Heller.

"Internal Combustion Engines for Power Generation in Steel Mills": D. M. Petty.

2:00 P.M.

"Judging the Combustion of Gaseous Fuels from Gas Analysis": A. G. Witting.

Topical Discussion—"Boiler Practices of 1922": J. B. Crane, E. R. Fish, Alfred Cotton, R. E. Butler, R. M. Rush and P. H. Falter.

THURSDAY, SEPTEMBER 14

9:30 A.M.

"A Review of Steel Mill Electrification": B. G. Lamme and W. Sykes.

2:00 P.M.

"Improvement in Efficiency of Electric Power Supply": Dr. C. P. Steinmetz.

7:00 P.M.

Sixteenth annual banquet.

FRIDAY, SEPTEMBER 15

9:30 A.M.

"Some Considerations in the Electrification of the Steel Plant Railroad Yard": R. B. Gerhardt.

2:00 P.M.

Inspection trips—Cleveland industrials.

SCIENTIFIC NOTES AND NEWS

THE centenary of the death of two distinguished astronomers occurred last month. William Herschel died on August 25, 1822, and Jean Baptiste Joseph Delambre on August 19.

At the meeting of the French Association for the Advancement of Science, held at Montpellier from July 24 to 29, M. Mangin, director