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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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October 9, 1958

Mr. Frederick Merrill
East-West Contacts Office
Department of State
Washington, D. C.

Dear Mr. Merrill:

The Metallurgical Society of the American Institute of Mining and Metallurgical Engineers is planning an International Symposium on the Physical Chemistry of Process Metallurgy to be held in Pittsburgh April 27th to 30th, 1959. A substantial number of scientists and engineers from Western Europe and from Japan will participate. The planning committee has felt that it would be highly desirable to have the participation of approximately five Soviet representatives. Since I will be President of the Society at the time of the Symposium, it devolves upon me to work out arrangements for this proposed participation. Accordingly I am writing to solicit your permission and cooperation.

If you see no obstacle to extending such invitations, I should plan to write letters directly to the individuals to be invited and to write Mr. Bardin at the Academy informing him of the invitations.

Steps have been taken to secure funds for defraying the expenses of our Soviet visitors while in this country.

Such visitors will certainly wish to see something of American metallurgical plants and research laboratories. I should expect to work out a proposal along this line for your approval at a later date.

Very truly yours,

/s/

John Chipman

State Dept. declassification & release instructions on file

THE METALLURGICAL SOCIETY OF AIME

29 West 39th Street - New York 18, N. Y.

AIME SCHEDULES INTERNATIONAL SYMPOSIUM ON THE PHYSICAL CHEMISTRY
OF PROCESS METALLURGY FOR APRIL 1959

An International Symposium on the Physical Chemistry of Process Metallurgy has been announced by Dr. John Chipman, President-Elect of the Metallurgical Society of AIME and Professor of Metallurgy, Massachusetts Institute of Technology. This Symposium will be held April 27-30, 1959, in Pittsburgh. It is being sponsored by the Metallurgical Society of AIME in cooperation with the Physical Chemistry of Steel-making Committee of the Iron and Steel Division, the Physical Chemistry of Extractive Metallurgy Committee of the Extractive Metallurgy Division, and the Melting and Casting Committee of the Institute of Metals Division.

The general topics for the four-day Symposium are:

I. Physical Chemical Principles

- A. Theory and Behavior of Metal Solutions and of Oxide Phases.
- B. Electrochemistry Behavior of Fused Salts and Electrochemical Reactions.

C. Pyrochemistry Reactions between Slag, Metal, Gaseous, and Solid Oxide Phases.

II. Transport Phenomena

- A. Principles of Kinetics; Reaction Rates, Mass and Energy Transport.
- B. Electrochemical Phenomena, Electrode Reactions and Electrolysis.
- C. Pyrochemical Reaction Mechanisms.

III. Application of Physical and Chemical Principles to Metallurgical Processes - Thermodynamics, Kinetics, Mass and Energy Transfer.

- A. Communitation.
- B. Leaching, Solution, and Phase Separation
- C. Roasting and Agglomeration.
- D. Reduction and Smelting.
- E. Gaseous, Liquid, and Solid Phase Refining.
- F. Casting and Solidification.

IV. Application of Operations

Research and Statistical Methods Applied to Process Control.

Technical experts in all areas of Process Metallurgy are invited for presentation at this Symposium. In addition to having reports on the results of new basic research, it is planned to emphasize in the program the use of fundamental facts for obtaining better understanding and better control of the net and the traditional methods for producing the various metals.

The deadline for submission of papers is January 1, 1959. Anyone planning to participate in the Symposiums should write to Professor John P. Elliott, Room 8-109, Massachusetts Institute of Technology, Cambridge 39, Massachusetts, who is serving as Program Chairman. Also please notify him by September, 1958, of the general topic(s) of the contribution(s) being planned, Professor S. Law McCabe of Carnegie Institute of Technology, is Conference Chairman.

A Proceedings of the Symposium will be issued. Papers for the Proceedings will be passed-on by a publication Committee. Acceptance standards will be commensurate with the current AIME publications policy.