

"Thermodynamic and Transport Properties of Gases, Liquids and Solids" which is still available from the American Society of Mechanical Engineers.

Though there was already some participation by European authors in 1959, the committee endeavours to obtain a strong participation of foreign research for its second symposium in order to provide for all contributors a desirable forum for presenting the results of their work. For this reason, Princeton University was chosen as the meeting place, which is only one hour distant from New York and offers an attractive academic atmosphere.

The committee is now inviting all colleagues active in the field of thermophysical properties to participate in this symposium by submitting papers on any of the subjects listed below. It is planned to again publish the Proceedings prior to the symposium.

Processing of papers will follow the established procedure of the American Society of Mechanical Engineers, which includes the following provisions:

- (1) Manuscripts must be original papers, written in English.
- (2) Papers previously published in a foreign country must be amended by additional material in order to be acceptable.
- (3) Papers may be re-published after the symposium in a foreign journal, giving credit to the ASME
- (4) All papers are subject to review by the Papers Chairman of the Heat Transfer Div.

Additional information regarding this symposium may be obtained from the undersigned or from committee members. The committee hopes to welcome many of you at its Second Symposium.

The program will include papers of the following nature:

- I. Review papers on current status of theory, experimental techniques, and available data.
- II. Original papers reporting new theoretical work.

- III. Original papers reporting new experimental work.
- IV. Documentation methods.

These papers will cover the following thermal properties:

- I. Thermodynamic properties and equation of state.
  - (1) P, V, T data and compressibility.
  - (2) Specific heats, enthalpy, entropy.
  - (3) Joule-Thompson coefficient.
  - (4) Phase equilibria of single- and multicomponent systems.
  - (5) Ionization equilibrium.
- II. Molecular properties.
  - (1) Spectroscopic data, Debye temperatures.
  - (2) Ionization potentials.
  - (3) Collision cross sections.
  - (4) Intermolecular potentials.
- III. Transport properties.
  - (1) Thermal conductivity and electrical conductivity.
  - (2) Shear viscosity and bulk viscosity.
  - (3) Regular diffusion and thermal diffusion.
  - (4) Heat of transfer.
- IV. Radiation properties (heat and sound).
  - (1) Emissivity and absorptivity.
  - (2) Sound absorption.

These properties will cover the following substances:

- I. Gases, normal and ionized, plasma.
- II. Liquids, Newtonian and non-Newtonian.
- III. Solids, crystalline and amorphous, alloys.
- IV. Plastics, elastomers.

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## U.S.S.R. CONFERENCE ON HEAT AND MASS TRANSFER

THE Academy of Science of the Byelorussian S.S.R., the Academy of Civil Engineering and Architecture of the U.S.S.R. and the Ministry of High and Secondary Special Education of the U.S.S.R. organize the Conference on Heat and Mass Transfer at phase and chemical conversions which is to be held in Minsk, B.S.S.R., June 5-9, 1961.

### *Preliminary Information*

One of the major purposes of the Conference is to provide for careful discussion of theoretical and experimental researches on heat and mass transfer at chemical

and phase conversions. A list of some topical areas of interest is given below but the Conference will not be restricted to these:

- (1) Heat and mass transfer with phase conversion including boiling, melting and evaporation.
- (2) Heat and mass transfer with chemical reactions.
- (3) Heat and mass transfer in vacuum.
- (4) High temperature heat and mass transfer.
- (5) Heat conduction problems and methods of solution.

Broad discussion is to be held on heat and mass

transfer in application to practical engineering problems at various technological processes such as: drying, kilning, combustion, gasification, power technological utilization of fuels, production of building materials, construction etc.

*Sectional Work*

- (1) Computation and mathematical methods.
- (2) Boundary layer methods.
- (3) Heat and mass transfer with phase conversions.
- (4) Heat and mass transfer at production of building materials and constructions.
- (5) Heat and mass transfer in combustion and gasification.
- (6) Thermophysical characteristics of various materials, heat agents and methods of their determination.