

*Scope*

The purpose of the Symposium, as in the past, is to bring together scientists from various parts of the world, so as to record and discuss current research studies in this field, to critically evaluate the present knowledge, and to direct attention to new areas of basic and applied research.

The Symposium will deal with theoretical and experimental research on rarefied gas dynamics. It will include invited and contributed papers of fundamental and practical interest. The subject areas to be covered are broadly as follows:

1. Nonequilibrium statistical mechanics and kinetic theory; monatomic and polyatomic gases, mixtures and plasmas, interaction with radiation, etc.
2. Numerical methods in rarefied gas dynamics; Monte Carlo simulation, solution to the Boltzmann equation, statistical modeling of flow phenomena, etc.
3. Experimental methods in rarefied gas dynamics; flow facilities, electron beam and molecular beam flow diagnosis, measurement techniques related to any of the topic areas.
4. Flow phenomena in rarefied gas dynamics; expansions and jets, flow through tubes, orifices and porous media, gas sampling inlet systems, external flows, shock waves and wakes, space aerodynamics, etc.
5. Fundamental problems in rarefied gas dynamics; transport phenomena, evaporation and condensation, effusion, viscous interaction, isotope separation, physics of aerosols, etc.
6. Rarefied gas dynamics problems in related fields; astrophysics, plasma physics, vacuum technology, chemical engineering, gas bearing technology, etc.
7. Molecular force fields and interactions; scattering of particles, ionization of molecules, reaction kinetics, etc.
8. Gas-surface interactions and their influences on flow fields; surface scattering, sorption phenomena, accommodation coefficients, surface chemistry, surface diagnostic techniques, etc.

*Request for titles of papers*

The planning of the Symposium would be simplified if prospective participants could provide by 1 December 1973, the proposed title and a brief statement of the general nature of the work on which they propose to report.

*Final selection and publication*

The selection of papers for the Symposium will be made on the basis of sufficiently detailed abstracts, to be submitted by 1 February 1974. Authors will be notified about the acceptance of their contribution before 1 April 1974. Authors should submit their papers in final form before 1 June 1974, so that the conference proceedings can be distributed at the time of the symposium.

Address all correspondence to RGD—Symposium Secretary, DFVLR—AVA, D-3400 Göttingen, Bunsenstr. 10, Federal Republic of Germany.

## HEAT TRANSFER IN GAS-COOLED REACTORS

## CALL FOR PAPERS

The Nucleonics Heat Transfer Committee (K-13) of the ASME Heat Transfer Division is sponsoring a special session on "Heat Transfer in Gas-Cooled Reactors" at the Winter Annual Meeting to be held in New York (17–21 November 1974).

Papers are now being solicited for the Gas-Cooled Reactor Session. Papers concerned with heat transfer analysis, thermal design, or experimental heat transfer investigations for gas-cooled reactor power plants are of interest. Topics appropriate for this session include heat transfer in reactor cores, blankets, thermal barriers, pressure vessel coolant systems, core auxiliary cooling systems, fuel handling machines, control rod drives, reactor instrumentation, and components of gas-cooled reactor gas turbine systems. Heat transfer related safety analyses, as well as normal steady state and transient analyses, fall within the scope of this session.

Authors intending to submit papers for consideration should submit abstracts by 15 March 1974 and should plan to submit four copies of the complete manuscript by 25 May 1974 to:

Papers by authors in U.S. and any other Countries outside Europe: Paul H. Sager, Jr., Gulf General Atomic Company, P.O. Box 81608, San Diego, California 92138.

Papers by authors in Europe (Including U.S.S.R.): Dr. G. Markóczy, Swiss Federal Institute for Reactor Research, 5303 Würenlingen, Switzerland.

All papers submitted will be reviewed for presentation and papers accepted will be preprinted in multilith pamphlet form for the meeting. Papers of high quality and permanent interest will be recommended for publication to the Editor of the Journal of Heat Transfer, although separate submittal to the Journal must be made by the author.