

## Preface

The XV International Conference on Chemical Reactor Modeling (CHEMREACTOR-15) took place on 5–8 June 2001 in Helsinki, Finland.

The Institute of Catalysis of the Siberian Branch of the Academy of Science organized the first Russian conference on this subject in Novosibirsk (Russia) in 1960. Since then, the conferences devoted to chemical engineering in the field of chemical reactors took place in different cities of the former USSR every 3 years. They received International status in 1996. Outstanding scientists such as Professor M.G. Slinko, Academician G.K. Boreskov, Academician G.I. Marchuk (Russia), Professor K.R. Westerterp (The Netherlands), Professor G. Froment (Belgium) and Professor A. Renken (Switzerland) helped a great deal in the organization and formation of these conferences.

About 120 researchers from 14 countries participated in the CHEMREACTOR-15 conference. The organizers were the Boreskov Institute of Catalysis SB RAS, the Finnish Catalytic Society, the Scientific Council on Catalysis of RAS, and the European Federation on Chemical Technologies. The conference was supported by the Ministry of Industry, Science and Technologies of the Russian Federation and the Russian Center of International Scientific and Cultural Cooperation under RF Government.

Scientific program included seven plenary lectures:

- A. Renken, Catalytic microreactors.
- M.P. Duduković, Shantanu Roy\*, M.H. Al-Dahhan, Flow mapping and modeling of liquid–solid risers.
- D.W. Agar, Regenerative and reactive enhancement of temperature and concentration profiles in chemical reactors.
- E. Tirronen, T. Salmi\*, Process development in the fine chemical industry.

- M.G. Slinko, D.Yu. Murzin\*, Reaction kinetics—basis for modelling of catalytic processes.
- V.N. Parmon, Environmentally benign catalytic methods of heat production.
- A. Bridgwater, Renewable fuels and chemicals by thermal processing of biomass.

Presented oral contributions (46) and posters (34) covered the following subjects:

- physico-chemical and mathematical bases of processes occurring on catalysts surface;
- processes in chemical reactors;
- new types of chemical processes and reactors;
- chemical reactors for solving the fuel and energy production problems;
- waste detoxication and processing.

*Special Workshop on the INTAS Project* “Experimental and theoretical studies of temporal and spatial self-organization processes in oxidative reactions over platinum group metals” was adjoined to the first topic.

The most interesting contributions are presented in the current issue. The conference organizers have a hope that these papers will be interesting both for researchers, and for representatives of the chemical industry. The next conference CHEMREACTOR-16 is planned to be in November 2003, the organizers are looking forward to new useful and pleasant meetings and contacts.

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