Foreword

This issue includes contributions presented at the Russian-Dutch Workshop "Catalysis for Sustainable Development" which was held in Novosibirsk (Russia) on June 22–26, 2002. Workshop was organized by G. K. Boreskov Institute of Catalysis, SB RAS (Novosibirsk, Russia), Schuit Institute of Catalysis – NIOK (The Netherlands) and Scientific Council on Catalysis of the Russian Academy of Sciences. The NIOK was the general Workshop sponsor. The event was also supported by Russian Foundation for Basic Research (RFBR). 100 participants from all the leading Universities of The Netherlands, six Russian universities, eleven Russian scientific centers such as Moscow, St. Petersburg, Krasnoyarsk, Novosibirsk, Perm', Ekaterinburg, Samara, Tomsk, Omsk, Kazan', Irkutsk, Kirovo-Chepetsk, and a number of representatives from industrial companies of both countries took an active part in the Workshop.

The Workshop scientific program included 8 plenary lectures, 25 oral presentations and 46 posters. The scope of the Workshop included the following topics:

– fundamentals of catalysis: theory and surface chemistry;

– homogeneous catalysis;

– catalysis for energy carrier synthesis;

– catalysis for environment protection;

– kinetics and modeling of chemical reactors.

The following plenary lectures were presented to the audience:

Molecular Modelling
R. A. van SANTEN
Schuit Institute of Catalysis, Eindhoven University of Technology, The Netherlands

Localization of Bivalent Transition Metal Ions in High Silica Zeolites Probed by Low Temperature Adsorption of Molecular Hydrogen
V. B. KAZANSKY
N. D. Zelinsky Institute of Organic Chemistry, RAS, Moscow, Russia

Catalytic Methods of Energy Production from Renewable Sources and Materials
V. N. PARMON
G. K. Boreskov Institute of Catalysis, SB RAS, Novosibirsk, Russia

Selective Oxidation of Carbohydrates with Focus on TEMPO Catalysis
H. van BEKKUM and A. C. BESEMER*
Delft University of Technology, The Netherlands
**SCA Hygiene Products, Zeist, The Netherlands*

Structural Stability and Catalytic Reactivity of Zinc Ion Species in Zeolites

G. M. ZHIDOMIROV*, A. A. SHUBIN*, V. B. KAZANSKY**, V. N. SOLKAN**, R. A. van SANTEN***, A. L. YAKOVLEV*** and L. A. M. M. BORBOSA***

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The Potential of Structured Reactors in Process Intensification

J. A. MOULIJN, A. STANKEWICZ and F. KAPTEIJN

Delft University of Technology, Delft, The Netherlands

Development of Advanced Catalysts for Environmental Protection

Z. R. ISMAGILOV

G. K. Boreskov Institute of Catalysis, SB RAS, Novosibirsk, Russia

Oxidation Reactions over Multicomponent Catalysts Consisting of Gold and a Transition/Rare Earth Metal Oxide

C. J. WESTSTRATE, A. GLUHOI, R. J. H. GRISEL and B. E. NIEUWENHUYS

Leiden University, The Netherlands

The most interesting contributions are presented in the current issue. The Organizing Committee expresses its sincere gratitude to the referees for their time and effort expended in the reviewing process.

The meeting definitely gave an opportunity to estimate the state of the art in joint projects and determine further research activities.

We are truly grateful to NIOK and RFBR for financial support of the Workshop and to NWO (Netherlands Organization for Scientific Research) for constant attention to the joint Russian-Dutch projects in catalysis.

Prof. Zinfer R. Ismagilov,
Co-Vice Chair