

Preface

XVIth Russian International Conference on Chemical Thermodynamics (RCCT2007) jointly with Xth International Conference on 'The Problems of Solvation and Complex Formation in Solutions' was held in the old Russian town Suzdal. In addition Joint Russian-French Seminar 'Supercritical Fluids: from theory to practice' and Russian-Poland Seminar for young scientists 'Solution Thermodynamics of bio-active substances' were carried out in the frameworks of the Conference.

The Conference was organized by Institute of Solution Chemistry, Moscow State University, Ivanovo State University of Chemical Technology and Mendeleev Russian Chemical Society. All participants felt the kind attention of local organizing committee from Ivanovo.

More than 600 scientists from Russian State and commercial research centers, NIS countries and from Europe, Asia, America and Africa presented their reports in plenary, oral and poster sessions. The conference reports were presented in 5 conference sessions:

- General problems of chemical thermodynamics
- Individual substances
- Solutions and melts
- Complex thermodynamic systems
- Solvation and complex formation thermodynamics in solutions

Actual problems of thermodynamics were discussed in round tables:

- Thermodynamics of supercritical fluids
- Thermodynamics of nanosystems and
- Solid electrolytes for high temperature fuel cells.

During the Conference the exhibition of research techniques of NETZSCH Gerätebau GmbH, BRUKER BioSpin GmbH, LLC «TERMEX», LLC 'Sigma-Aldrich Rus', ZAO 'Mettler-Toledo Vostok', ZAO «NPO EKROS», «Lab Instruments» companies was organized.

Considering that large amount of young researchers requested the Conference participation, the special session day was devoted to the reports of students, post-graduate and post-doc students. The special attention of Conference organizers was given to the presentation of young researchers whose best reports were awarded by IACT Award for the best poster presentation, NETZSCH Award for the best thermoanalytical research and Award of Organizing Committee for the best oral presentation.

During the Conference participants had the possibility to visit the nicest places of old Russia in Suzdal and Vladimir. In this issue we present the selected papers of RCCT2007 devoted to thermal analysis and calorimetry.

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