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Report on International Conference “High-Tech in Chemical Engineering”-IV

G. E. ZAIKOV

(Received 3 July 1997)

The IV High-Tech in Chemical Engineering international scientific conference was held at Volgograd (previous name is Stalingrad) in Russia on 9–14 September 1996. This meeting was sponsored by Russian government, some Russian companies and International Association for the promotion of cooperation with science from the Independent States of the Former Soviet Union (INTAS), Bruxelles, Belgium (European Community).

Prof. L. A. Serafimov (head of Moscow State Academy of Fine Chemical Technology–MSAFCT–) was chairman of Organizing Committee. Profs. V. I. Gumar (Vitamine Co., Moscow), N. N. Koulov (Institute of General and Inorganic Chemistry, Russian Academy of Sciences, IGIC, Moscow), A. F. Mironov (MSAFCT), B. I. No (Volgograd Technical State University), B. A. Popovkin (Moscow State University, MSU), V. V. Smirnov (MSU), Ya. A. Treger (Research Institute “Synthesis”, Moscow), V. A. Shershnev (MSAFCT) were members of Organizing Committee.

250 scientists from 16 countries and 85 research centers took part in this conference. The scientific program of the meeting included 9 plenary lectures, 26 plenary-session lectures (4 sessions) and 160 posters. Some part of the conference was dedicated to INTAS programs. In accordance with topics of *Polymers New Journal* we select only polymer reports plenary lectures. The most important plenary lectures were given by V. N. Parman, A. G. Okunev from G. K. Boreskov Institute of Catalysis (BIC) Novosibirsk (New Success

and Frontiers of Heterogeneous Catalysis), S. P. Goubin, IGIC (Clusters Materials), V. L. Zolotarev, Synthesis of Rubbers Association, Moscow (Synthetic Rubbers: Today and in Future).

Session No. 4 was devoted to polymers and polymer composites: synthesis, processing, modification. This session included 50 plenary-session and poster talks.

The INTAS-session included 35 projects of cooperation. The most important informative presentations were:

1. INTAS-93-0753-project "Phase Behaviour and Properties of Mesophase Polysiloxanes". The participants of this project are: H. Berghmans (Katholieke Universiteit Leuven, Belgium), W. Pechhold (University Uim, Germany), W. Borchard (Gerhard Mercator University, Germany), N. Makarova (Nesmeyanov Institute of Organoelement Compounds Russian Academy of Science, Y. Godovsky (Karpov Institute of Physical Chemistry, Russia).
2. INTAS-93-0829-project "Polymer Optical Fibres for Rough Environment and Sensor Applications. The participants of this project are: M. Moller (Ulm University, Germany), P. Lemstra (Eindhoven University of Technology, The Netherlands), L. P. Myasnikova (Ioffe Physico-Technical Institute, Russia), V. Papkov (Institute of Organo Elemento Compounds RAS, Russia).
3. INTAS-93-1431 "Conformational Stability. Phase Transitions and Rheology of Some Plant and Microbial Carbohydrate Polymers. The participants of this project are: A. Cesaro (University of Trieste, Italy), S. Ross-Murphy (King's College London, United Kingdom), A. L. Usov (Institute of Organic Chemistry of the Russian Academy of Sciences, Russia), V. Grinberg (Institute of Food Substances of the Russian Academy of Sciences, Russia).
4. INTAS-93-1846: Mechanism of Action of Halogen-Free Fire Retardants and Development Approaches to Design of New Fire Retardants with Reduced Environment and Health Impact. The participants of this project are: L. Costa (University of Turin, Italy), J. M. Catala (Institute Charles Sadron, CNRS, France), S. Levchik (Research Institute for Physico-Chemical Problems, Belarus), N. Khalturinskij (Institute of Chemical Science, Kazakhstan), A. V. Griбанov (Institute of High Molecular Compounds, Russia).

5. INTAS-93-2124 "Organosilicon precursor to Modified SiC Base Materials". The participants of this project are: C. Brochet (University Bordeaux I, France), J. Lenfant (University de Rennes I, France), E. Chernyshev (The State Scientific Research Institute of Chemistry and Technology of Organo-Element Compounds, Russia).
6. INTAS-93-2276 "New Modified Polymers for Biomedical Application". The participants of this project are: M. Jozefowicz (Groupement d'Interet Public Therapeutiques Substitutives, France), V. A. Kabanov (Lomonosv University, Moscow, Russia), N. A. Plate (Topchiev Institute of Petrochemical Synthesis, Russia), A. Litmanovich (Topchiev Institute of Petrochemical Synthesis, Russia).
7. INTAS 93-2502 "Theoretical and Experimental Investigations of the Structure and Mobility of Polymer Networks" I. Alig (Deutsches Kunststoff Institut, Germany), L. Monnerie (Ecole Superieure de Physique et de Chimie Industrielles de la ville de Paris, France), G. Fytas (Foundation for Research and Technology-Hellas, Greece), A. Darinskii (Institute of Macromolecular Compounds, Russia), V. Solovyev (St. Petersburg State University, Russia), Y. Gotlib (Institute of Macromolecular Compounds, Russia).
8. INTAS-93-2694 "Ternary Poly (A-Block-B-Block-C) Block Copolymers as Structurally Controlled Matrices of New Polymeric Transition Metal Complexes", R. Stadler (Johannes Gutenberg-Universitat Mainz, Germany), L. Leibler (Centre National de la Recherche Scientifique, France), A. Khokhlov (Moscow State University, Russia), L. Bronshtein (Nesmeyanov Institute of Organoelement Compounds, Russia).
9. INTAS-93-3379 "Scientific Network on Investigation of Structure-Properties Relationships in Polymer and Polymeric Composites". P. Pissis (National Technical University of Athens, Greece), J. Marat-Mendes (Universidade Nova de Lisboa, Portugal), B. Lucke (Institut fur Angewandte Chemie Berlin-Adlershof e. V., Germany), M. Monleon (Universidad Politecnica de Valencia, Spain), G. Boiteux (Universite Claude Bemard-Lyon I, France), J. Rault (Universite Paris-Sud, France), F. Wanderlingh (Universit di Messina, Italy), O. Bezrukov (St. Petersburg University, Russia), S. Fedosov (Odessa Technological Institute, Ukraine), Y. Mel'nikhenko (Institute of Macromolecular Chemistry, Ukraine), E. Oleinik (Institute of Chemical Physics, Russia).

10. INTAS-93-3689: Degradation and Stabilization and Transport Properties of Polymeric Composites". G. Camino (Universitri di Torino, Italy), V. M. M. Matos Lobo (Universidade de Coimbra, Portugal), G. E. Zaikov (Institute of Chemical Physics, Russia).
11. INTAS-94-1482 "Development of new side-chain liquid crystalline copolymers exhibiting chiral mesophases". P. Magagnini (University of Pisa, Italy), G. R. Mitchel (University of Reading, United Kingdom), F. Andruzzi (Consiglio Nazionale delle Ricerche, Italy), I. I. Konstantinov (A. V. Topchiev Institute of Petrochemical Synthesis, Russia), S. V. Yablonsky (Shubnikov Institute of Crystallography, Russia), A. I. Alexandrov (Ivanovo State University, Russia).
12. INTAS-94-2490 "Novel Membrane Materials for Environmental Protection Control", E. Dioli (University of Calabria, Italy), M. Mulder (University of Twente, The Netherlands), N. Plate (A. V. Topchiev Institute of Petrochemical Synthesis of Russia Academy of Sciences, Russia), O. Ilinitch (Boreskov Institute of Catalysis, Russia), V. Soldatov (Institute of Physical and Organic Chemistry, Belarus).
13. INTAS-94-4404 "Computer Simulation Studies of the Structure and Dynamics of Liquid Crystalline Polymers". J. Brickmann (Technische Hochschule Darmstadt, Germany), P. Bopp (Universite de Bordeaux I, France), A. A. Darinskii (Institute of Macromolecular Compounds of the Russian Academy of Sciences, Russia).
14. INTAS-94-4469 "The Structure and Phase Behaviour of Rigid-Chain Reaction Thermotropic Liquid Crystalline Copolyesters in a Wide Temperature Range". P. I. Lemstra (Eindhoven University of Technology, The Netherlands), M. Stamm (Max-Planck-Institut fur Polymerforschung, Germany), E. Antipov (A. V. Topchiev Institute of Petrochemical Synthesis of the Russian Academy of Sciences, Russia), Y. Godovsky (Karpov Institute of Physical Chemistry, Russia).

In summary, this was a very informative conference showing the great influence of INTAS projects on research and development in the field of chemistry and physics of polymers in Russia and West European countries. The conference showed that problems of high-

molecular compounds are still very important for pure and applied chemistry. Abstracts of all reports are published in a special volume by publishing house of M. V. Lomonosov Moscow Academy of Fine Chemical Technology (117571 Moscow, Vernadskii prospect 86) in English and in Russian.

The next V International Scientific Conference of "High-Tech in Chemical Engineering" will held in Russia in 1998.