



Molecular Crystals and Liquid Crystals

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Guest Editor's Foreword

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Guest Editor's Foreword

International Conferences “Electronic Processes in Organic Materials” (ICEPOM) are organized periodically in the different regions of Ukraine to improve the international cooperation of scientists in the field of organic materials. Prof. Martin Pope is the initiator of these conferences series.

The 5th International Conference “Electronic Processes in Organic Materials” (ICEPOM-5) has been held in Kyiv (Ukraine) on May 24–29, 2004.

The objective of the conference is to discuss physical phenomena and processes in organic materials and at their interfaces with other materials as well as prospects of their practical applications.

SCIENTIFIC PROGRAM:

1. Energy structure of organic composites, processes of photogeneration, transport and recombination of charge carriers;
2. Electronic processes at interfaces of organic materials to metals, as well as biological, organic, inorganic media and nanostructures;
3. Electro-optic processes in confined liquid crystals;
4. Electronic processes within polymer composites and nanostructures;
5. Nonlinear properties of organic structures and composites
6. Novel organic materials and technologies for technical application and medicine;
7. Plastic solar cells based on composites and heterostructures;
8. Physical aspects of composites application (LEDs, sensors, recording media etc.)

More than 100 scientists from 12 European countries, US and Japan presented their reports to the conference. Eight plenary and three poster sessions were held.

Special sessions concerning on electronic processes in polymer composite and nanostructure and novel organic materials and technologies were presented ICEPOM-5. A review of the current status of nonlinear properties of organic composites as well as and new results in the field of flexible solar cells were presented during the sessions on

“NLO properties of organic structures and composites” and “Organic Solar Cells based on composite and heterostructures”.

The participants of Conference agreed to continue the series of conferences, holding a next meeting (ICEPOM-6) in Crimea (Ukraine) on May–June, 2006.

By the name of Organizing Committee we thank the conference sponsors: European Office of Aerospace R & D, Thuringian Agency for Technology and Innovation, MCLC and Taylor and Francis Inc. Publishers, SPIE; and special thank to the National Academy of Sciences and the Linz Institute of Plastic Solar Cells (LIOS) for the awards supporting the best presentations of young promising scientists.

We thank also all organizations and institutions which supported the conference: National Academy of Sciences of Ukraine, The Institute of Physics of NAS of Ukraine, Bogolyubov Institute for Theoretical Physics of NAS of Ukraine, Society of Chemistry of Kyiv Taras Shevchenko University.

Their support helped the ICEPOM-5 conference to be held on such a high level.

We are very grateful to Editor in Chief M. M. Labes and Managing Editor Phyllis Cohen and Production Editor Michele Willmunder for their kind assistance in the organization of the present publication.

The Guest Editors

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