



## Molecular Crystals and Liquid Crystals Science and Technology. Section A. Molecular Crystals and Liquid Crystals

Publication details, including instructions for authors and  
subscription information:

<http://www.tandfonline.com/loi/gmcl19>

### Introduction

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Version of record first published: 24 Sep 2006.

To cite this article: Jan Kalinowski (1993): Introduction, Molecular Crystals and Liquid Crystals  
Science and Technology. Section A. Molecular Crystals and Liquid Crystals, 228:1, ix-x

To link to this article: <http://dx.doi.org/10.1080/10587259308032137>

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## INTRODUCTION

The Sixth International Conference on Electrical and Related Properties of Organic Solids (ERPOS-6) was held at La Residenza hotel in Capri (Italy) on May 18–22, 1992, under the chairmanship of Prof. Jan Kalinowski (Inst.FRAE, CNR, Bologna and Tech. Univ. of Gdańsk). The following topics were covered.:

1. Generation and transport of charge carriers (ordered and disordered systems)
2. Energy generation, transport and storage (ordered and disordered systems)
3. Observation of new phenomena and development of new methods for investigation of electronic processes in organic solids
4. Low-dimensional systems
5. Multi-component and heterogeneous organic systems
6. New electroactive and photoactive organic materials
7. Information processing using organics
8. Sensors and transducers based on organic materials
9. Biological and biomimetic aspects

The conference program was arranged in such a way as to emphasize the universality of basic electronic processes, on the one hand, for understanding the behaviour of sophisticated molecular systems (including those of biological importance) and, on the other hand, for practical applications based on complex organic materials. This general approach to the conference aims required the joining of experimentalists and theoreticians representing different disciplines, so that ERPOS-6 could become an interdisciplinary forum for exchange of ideas on various aspects of electronic processes in organic solids. There were over one hundred participants and papers presented from 29 countries. The papers offered a broad range from basic theoretical considerations through original experimental results to various applications of electronic processes in organic molecular systems. Generation and transport processes, photo-electronic phenomena and superconductivity in various molecular systems, including crystals and disordered organic materials were all well represented. Both phenomenological and material aspects were covered with attempts to interrelate electronic processes with structural properties of molecular systems. The scientific program consisted of invited lectures, oral and poster contributions. There were 14 lectures presented by distinguished researchers from all over the world. They covered a broad range of topics, presenting up-to-date knowledge on almost all aspects of electronic processes in molecular systems and forming a skeleton for the conference contributions.

The Conference is a successor of five previous ERPOS meetings which were held in Poland (1976, 1978, 1981, 1984, 1987) with the intention to bringing together scientists from East and West—Poland was then a place which could be relatively easily entered by people from these two parts of the globe. Recent stormy progress in political events has made the World more open and allowed the Conference to be located outside Poland. However, due to its long tradition, the next ERPOS conference will be again held in Poland in 1995.

This issue of *Molecular Crystals and Liquid Crystals* is devoted to invited (\*) and contributed papers which were presented at ERPOS-6, or which were submitted to the guest-editor of this issue. The contributions to this special issue are arranged in the order of their presentation at the Conference, except for the papers submitted to the guest-editor.

The Conference would not have been possible without generous assistance given by several institutions from Italy and other countries. We express our thanks to all of them, whose names are found on the following pages.

September 1992

Jan Kalinowski