

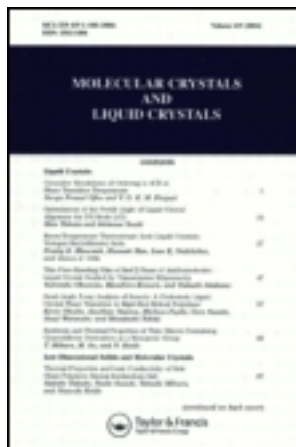
This article was downloaded by: [Tomsk State University of Control Systems and Radio]

On: 19 February 2013, At: 13:17

Publisher: Taylor & Francis

Informa Ltd Registered in England and Wales Registered Number: 1072954

Registered office: Mortimer House, 37-41 Mortimer Street, London W1T 3JH, UK



## Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics

Publication details, including instructions for authors and subscription information:

<http://www.tandfonline.com/loi/gmcl17>

### Preface

A. Derzhanski , A. G. Petrov & I. Bivas

Version of record first published: 17 Oct 2011.

To cite this article: A. Derzhanski , A. G. Petrov & I. Bivas (1987): Preface, Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 151:1, v-vi

To link to this article: <http://dx.doi.org/10.1080/00268948708075315>

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: <http://www.tandfonline.com/page/terms-and-conditions>

This article may be used for research, teaching, and private study purposes. Any substantial or systematic reproduction, redistribution, reselling, loan, sub-licensing, systematic supply, or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae, and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand, or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

## P R E F A C E

The papers appearing in this issue of Molecular Crystals and Liquid Crystals were presented at the Fifth European Liquid Crystal Conference held in Borovets, Bulgaria, March 25 -30, 1987. This Conference was organized by the Institute of Solid State Physics, the Bulgarian Academy of Sciences, in accordance with the recommendation of the International Advisory Board taken during the Forth European Conference in Yugoslavia.

The Conference was held under the patronage of Stoyan Markov, First Deputy Chairman of the Ministry Council of the People's Republic of Bulgaria and Chairman of the State Committee for Research and Technology.

The Conference was supported by the European Physical Society as a Topical Conference. The Organizing Committee acknowledges the sponsorship of Gordon & Breach Science Publishers, N.Y., the Bulgarian State Committee for Research and Technology, the Committee for Science, the Sofia District Branch of the Union of Scientific Workers of Bulgaria, the Economic Organization (EO) "Instrument Design and Automation", EO "Electronic Materials and Components", EO "Technomat", EO "Pharmachim" and the Bulgarian Airlines "Balkan".

Basic subjects of the Conference were Layered and Columnar Mesomorphic Systems. By plenary lectures, oral and poster communications the present knowledge about liquid crystal state was summarized and its applications in modern optoelectronics and in membrane biology were underlined. The accepted papers were classified according to the following subjects: Structure and Dynamics, Phase Transitions, Defect Models, Amphiphiles and Biological Aspects, Anchoring, New Display Concepts.

The total number of participants was 173, including 57 from Bulgaria and 116 from 18 European countries, USA, Canada, Japan and India.

In total 27 plenary lectures, 28 oral communications and 111 poster communications were presented. Among the topics reported were Ferroelectric liquid crystals (theory, experiment, synthesis and applications), paramagnetic nematics, intermediate liquid crystal phases, critical phenomena, phase transition dynamics in phospholipids, lyotropics and topology, swelling of phospholipids, dynamic structural formation in membranes, lyotropics and topology, lyotropic nematics as media for chemical reactions, nematic

droplet dispersions for displays, modern nematics for high-information content displays, etc. The scientific program stimulated many animated discussions.

As a whole, the Fifth European Winter Liquid Crystal Conference demonstrated the present explosive growth of liquid crystal physics, chemistry and technology, especially physics of ferroelectrics, liquid crystal approach in the membranology, anchoring of liquid crystals to solid supports, etc. demonstrating also the great technological impact of these fields of research.

In conclusion, the Conference continued the former conferences' tradition to be a forum of the European and world liquid crystal scientists' community and to develop further both fundamental and applied aspects of layered and columnar mesophases. The general opinion of the participants was that the Conference provided excellent possibilities for wide exchange of knowledge between them, especially between Eastern European and Western European scientists.

The International Advisory Board had two meetings during the Conference. It took a decision for the following European Conference to take place in Schladming, Austria during the first quarter of 1989 under the chairmanship of Professor Peter Laggner, Institute for Fine X-Ray Studies, Graz. The main topic of the next Conference was proposed to be "Polar Effects in Low-Dimensional Mesomorphic Systems".

The Organizing Committee of the Fifth European Conference is greatly indebted to all supporters and sponsors listed above. The Guest Editorial Board is especially thankful to Molecular Crystals and Liquid Crystals Editorial Board and Gordon & Breach Science Publishers for their generous sponsorship, and to the Editor-in-Chief M. M. Labes for the invaluable cooperation in preparation of these Proceedings.

A. Derzhanski  
A. G. Petrov  
I. Bivas