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Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics

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Welcome Address

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WELCOME ADDRESS

by

Academician MILKO BORISSOV
Director of the Center of Physics
of the Bulgarian Academy of Sciences and
Director of the Georgi Nadjakov Institute
of Solid State Physics

Dear colleagues!

It is a great pleasure and high honour for our country, for the Bulgarian Academy of Sciences and for the Institute Solid State Physics to be a host of the Fifth European Winter Liquid Crystal Conference. It may be useful to inform briefly our respectable guests about our Academy, the Centre of Solid State Physics and the Institute Physics belonging to it.

The Bulgarian Scientific Society was first created in 1869, i.e. about nine years before our Romania, from the Osman domination. The statutes of this liberation Society were very similar to that of many foreign Academies In 1912 the Society was renamed as Bulgarian at that time. Academy of Sciences. Until 1945 the Academy did not have any of its own. Its activity was expressed only in institutes works of various scientists editing the scientific giving them some grants and awards from its limited funds. for scientific activity in the The main place mathematical sciences until 1945 was the physical and of Physics and Mathematics at the Sofia University (founded in 1888). It was only after 1945 when the started to develop its own Institutes and Laboratories.

the Bulgarian Academy of Sciences is present complex scientific organization in our biggest and most dealing with natural, technical and sociological country, Ιt includes 13 000 research associates sciences. Our scientific centers. Center of Physics unites namely, the Institutes of: Nuclear Research and Institutes, Nuclear Energy, Solid State Physics, Electronics, Space Research and 3 Central Laboratories, namely, Physics. Laboratories of: Optical Storage and Information Energy and New Energetic Processing, Solar Automation and Scientific Instrument Design.

The Institute of Solid State Physics has now 250 coworkers, 1/3 of them being research associates. Its basic field of research is Condensed Matter Physics developed in the Departments on Physical Problems of Semiconductor and Integrated Electronics, Acustoelectronics and Acustooptics, Magnetism and Low Temperature Physics, Structural Studies, Liquid Crystals and Molecular Electronics. This Institute includes also 3 separate research groups, namely, Groups on: Molecular Epitaxy, Cryogenic Processes and Apparatuses with Liquid Gases Production Unit, and Solid State Theory.

The second field of research carried out by the Institute is Optics and Spectroscopy with a corresponding Department and two separate groups on Atomic Spectroscopy and Metal Vapour Lasers.

Our Institute has broad relations and indulges in scientific cooperation with many similar Institutes abroad. As an example of our international cooperation I would like to mention the International School on Modern Problems in Condensed Matter Physics held every two years in our country.

The scientific interests in liquid crystals in Bulgaria old tradition going back to the first Chairman have Chair on Experimental Physics in Sofia University, He founder Ivanovitch Bachmetiev. is the cryobiology in Bulgaria and the discoverer of the anabiosis in living organisms at 1ow temperatures. phenomenon Bachmetiev has personally been acquainted with Otto has visited his lab in Karlsrue in 1904. After that he enthusiastic popularizer of Lehmann's Liquid became an Crystals. He has particularly been attracted by Lehmann's ideas in the book "Liquid Crystals and Theories of Life". In Bachmetiev's article "Biological Analogies Crystals" has been published in the Russian journal "Natural Science and Geography". In this article Bachmetiev has noted discussed the analogy between some phenomena 1iquid lyotropic crystals and some thermotropic and fundamental phenomena in living cells: fission and fusion, digestion, regeneration and motility.

everywhere else in the world the interest Bulgaria became stronger during crystals in liquid years of the present century. The sixthies investigations started in the Department of Optics and Spectroscopy. a separate Liquid Crystal Research Group was created dielectric and flexoelectric to study electrooptics, οf liquid crystals. Still later this properties to investigate liquid crystal properties This group evolved recently in a and biological membranes. Department of Liquid Crystals and Molecular Electronics. Our

Institute will support and develop further the scientific activity of the Liquid Crystal Department. We are very glad good international resonance of its activity, demonstration of which is also the present Fifth European Winter Liquid Crystal Conference taking place in country.

Allow me on behalf of the Presidium of the Bulgarian Academy of Sciences, the Centre of Physics and the Institute of Solid State Physics to welcome you, to wish very fruitful work at your interesting Conference and a pleasant stay in Borovets and in our country to all our guests.

Thank you!

Borovets, 25 March 1987