International School of Liquid Crystals
13th Workshop

Colloids, Interfaces and Liquid Crystals

E. Majorana Centre for Scientific Culture, Erice
19-25 July 2006

Directors of the Workshop:
I. Muševic, P. Pasini, C. Zannoni, S. Žumer

Sponsors: ALCANDO project (EU Commission), Italian Liquid Crystal Society, INSTM
Colloids, Interfaces and Liquid Crystals

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PROGRAMME

July 19

afternoon: Arrival
21.15: Welcome Reception at the Marsala Lecture Hall (S. Rocco)

July 20

9.00 – 9.15  Welcome

9.15 – 10.15  H. Lekkerkerker  Life at Ultra low Interfacial Tension: The Interface of Demixed Colloid-Polymer Mixtures and the Isotropic Nematic Interface in Suspensions of Colloidal Platelets

10.15 – 11.00  Y. Reznikov  Diluted colloids of nano-ferroelectric particles in liquid crystals

11.00 – 11.30  Coffee break

11.45 – 12.30  M.P. Allen  Simulation of inhomogeneous liquid crystals

lunch break

15.45 – 16.30  P. Ziherl  Colloids on smectic films.

16.30 – 17.15  R. Stannarius  2D Dispersions - liquid inclusions in smectic free standing films

17.15 – 17.45  Coffee break

17.45 – 19.15  Poster session
### July 21

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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tr>
<td>9.00 – 10.00</td>
<td>D. Weitz</td>
<td>Defect structure in thin shells of liquid crystal</td>
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<tr>
<td>10.00 – 10.45</td>
<td>O. Lavrentovich</td>
<td>Elasticity- and anchoring-mediated interactions of particles and topological defects at the surface and in the bulk of liquid crystals. Coffee Break</td>
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<tr>
<td>10.45 – 11.15</td>
<td>J-C. Loudet</td>
<td>Wetting of micrometer-sized ellipsoids</td>
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<tr>
<td>11.15 – 12.00</td>
<td>H. Stark</td>
<td>Wetting Phenomena in Liquid Crystal Colloids</td>
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<td>Lunch break</td>
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<tr>
<td>15.45 – 16.30</td>
<td>P. Lettinga</td>
<td>Exploring the phase behavior of rod dispersions using external fields</td>
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<tr>
<td>16.30 – 17.00</td>
<td>F. Mantegazza</td>
<td>Anomalous orientation of charged rod-like colloidal particles in external electric fields. Coffee break</td>
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<tr>
<td>17.00 – 17.30</td>
<td>R. Berardi</td>
<td>A Computer Simulation Study of the Formation of Liquid Crystal Nanodroplets from a Homogeneous Solution</td>
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<tr>
<td>18.00 – 18.30</td>
<td>S. Varga</td>
<td>Phase behaviour of nail-shaped hard particle fluids</td>
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<tr>
<td>18.30 – 19.00</td>
<td>G. Cinacchi</td>
<td>Phase diagrams of binary mixtures of thin and thick hard spherocylinders</td>
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### July 22

**Excursion to Selinunte and Mozia**

### July 23

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<tr>
<td>9.00 – 10.00</td>
<td>H. Yokoyama</td>
<td>Surface effects in nematics: interfaces, decorated surfaces and colloids Coffee break</td>
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<tr>
<td>10.00 – 10.45</td>
<td>M. Telo da Gama</td>
<td>Surface effects in nematics: interfaces, decorated surfaces and colloids</td>
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<td>10.45 – 11.15</td>
<td>M. Skarabot</td>
<td>Two-dimensional Nematic Colloidal Crystals Self-assembled by Topological Defects</td>
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<td>11.15 – 12.00</td>
<td>S. Zumer</td>
<td>Simulations of colloidal lattices confined to thin nematic layers</td>
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<td>15.45 – 16.30</td>
<td>U. Zammit</td>
<td>Specific heat spectroscopy in liquid crystal phase transitions with disorder</td>
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<td>16.30 – 17.00</td>
<td>L.R. Evangelista</td>
<td>Ionic contribution to the electric current in an electrolytic cell submitted to an external voltage.</td>
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<td>17.15 – 17.45</td>
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<td>Coffee break</td>
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<tr>
<td>17.45 – 18.15</td>
<td>M. Ravnik</td>
<td>Self assembled colloidal structures in nematics confined to a capillary</td>
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<td>18.15 – 18.45</td>
<td>Y. Yang</td>
<td>Optical trapping of colloids in liquid crystals</td>
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<td>20.30</td>
<td>Social Dinner</td>
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<td>9.00 – 9.45</td>
<td>E. Terentjev</td>
<td>Defects and textures in thin films of liquid crystalline polymers</td>
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<td>10.15 – 10.45</td>
<td>G. Raos</td>
<td>Computer experiments on the non-linear viscoelasticity of filled elastomers</td>
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<td>11.15 – 11.45</td>
<td>N. Silvestre</td>
<td>Elliptic inclusions in smectic-C films</td>
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<td>11.45 – 12.15</td>
<td>S.V. Shiyanovskii</td>
<td>The particle interaction in liquid crystals: beyond the permanent multipole expansion</td>
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<td>12.15 – 12.45</td>
<td>C. Anquetil</td>
<td>Anchoring of liquid crystals on self assembled monolayers</td>
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<td>15.45 – 16.10</td>
<td>F. Tombolato</td>
<td>Molecular model for the chiral nematic phase of dispersions of M13 virus.</td>
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<td>16.10 – 16.35</td>
<td>A. Arcioni</td>
<td>Electron Spin Resonance studies of order and dynamics in complex liquid crystal systems</td>
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<td>16.35 – 17.00</td>
<td>Coffee Break</td>
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