

# 38th Topical Meeting on Liquid Crystals

## POSTER SESSION I

(as of February 22)

Thursday, March 11, 2010

14.00 - 16.00

### **P01: Nematic Liquid Crystals and Nematic Colloids in Microfluidic Environment**

Anupam Sengupta, Stephan Herminghaus, and Christian Bahr  
*Max Planck Institute for Dynamics and Self-Organization, Göttingen*

### **P02: Mechanical behaviour of polymer/liquid crystal films elaborated by electron beam and UV radiation: Phase separation, reinforcement and plasticization**

Abdelkader Berrayah\*, Latifa Zair\*, Ulrich Maschke #

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des Sciences, Université Aboubakr Belkaïd de Tlemcen, Algeria*

# *Laboratoire de Chimie Macromoléculaire (UMR CNRS N°8009), Université des Sciences  
et Technologies de Lille, Villeneuve d'Ascq, France*

### **P03: Induced 'de Vries'-like behavior in a FLC mixture with unusual behavior in layer thickness**

Andreas Bogner\*, Per Rudquist #, Jeffrey C. Roberts %, Robert P. Lemieux %,  
Frank Giesselmann\*

\* *Institut für Physikalische Chemie, Universität Stuttgart*

# *Microtechnology and Nanoscience, Chalmers University of Technology, Göteborg,  
Sweden*

% *Department of Chemistry, Queen's University, Kingston, Ontario, Canada*

### **P04: Liquid Crystals in the Grid**

S. Breuers, D. Blunk

*Department für Chemie, Universität zu Köln*

### **P05: Systematic Study on New Chiral, Ester-bridged Tricyclic Mesogens**

F. Brombach, D. Blunk

*Institut für Organische Chemie, Universität zu Köln*

**P06: Biaxiality and Molecular Dynamics in Nematic Liquid Crystalline Polymers and Elastomers**

F. Brömmel, G. Osterwinter, A. Hoffmann, H. Finkelmann  
*Institut für Makromolekulare Chemie, Albert-Ludwigs-Universität Freiburg*

**P07: Liquid Crystalline Guanidinium Ion Pairs**

Martin Butschies, Sven Sauer, Sabine Laschat  
*Institut für Organische Chemie, Universität Stuttgart*

**P08: New Inositol Derivatives and Their Supramolecular Properties**

Gabriela Catanoiu\*, Cosima Stubenrauch\*#, Dirk Blunk %

\* *Institut für Physikalische Chemie, Universität Stuttgart*

# *School of Chemical & Bioprocess Engineering, University College Dublin, Ireland*

% *Institut für Organische Chemie, Universität zu Köln*

**P09: Incompressible Biaxial Nematic Elastomers for Artificial Muscles**

Y. Yusuf\*, S. Krause #, S. Hashimoto %, L.G. Fel ‡, H. Finkelmann #, S. Kai %§, and P. E. Cladis ¶

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# *Makromolekulare Chemie, Universität Freiburg*

% *Department of Applied Quantum Physics and Nuclear Engineering, Graduate School of Engineering, Kyushu University, Fukuoka, Japan*

‡ *Department of Civil Engineering, Technion-IIT, Haifa, Israel*

§ *Department of Applied Physics, Fac. of Engineering, and Department of Life Engineering, Graduate School of Systems Life Sciences, Kyushu University, Fukuoka, Japan*

¶ *Advanced Liquid Crystal Technologies, POB 1314, Summit, NJ 07902, U.S.A.*

**P10: Tristriazolotriazines - A novel core for fluorescent discotic liquid crystals**

D. Borchmann, M. Kratochwil, S. Glang, H. Detert

*Institut für Organische Chemie, Johannes-Gutenberg-Universität Mainz*

**P11: Novel X-shaped bolaamphiphiles with two incompatible lateral chains**

H. Ebert\*, M. Prehm\*, F. Liu #, X. Zeng #, G. Ungar #, C. Tschierske\*

\* *Institute of Organic Chemistry, Martin-Luther-Universität Halle-Wittenberg, Halle*

# *Department of Engineering Materials, University of Sheffield, UK*

**P12: Dependence of the chemical composition of polymer/liquid crystal materials on optical memory effects**

Fatima Zohra Elouali, Ulrich Maschke

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**P13: Dispersions of Silver Nanoparticles in Nematic Liquid Crystal-Thiolene Polymer Materials**

Malika Elouali\*, Fatima Zohra Elouali\*, Oleg Yaroshchuk #, Ulrich Maschke\*

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*# Institute of Physics, NASU, prospect Nauki 46, 03680, Kyiv, Ukraine*

**P14: Peculiarities of transitions between conventional and “banana”-phases in bulk and film geometries**

Martin Kirchhoff, Stephan Stern, Alexey Eremin, Ralf Stannarius, Cheol Soo Park  
*Department of Nonlinear Phenomena, Otto-von-Guericke University, Magdeburg*

**P15: Contribution to Studies of the Diffusion Process by Cellular Automata Concept: Application to Liquid Crystal Systems**

Sidi Ali Kamel Ghafir\*#, Abdelhamid Sari\*, Ulrich Maschke #

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**P16: Ferro and antiferroelectric phases in photosensitive liquid crystalline compounds with azo-group in the molecular core**

Vladimíra Novotná\*, Miroslav Kašpar\*, Věra Hamplová\*, Milada Glogarová\*, Natalia Podoliak\*, Dorothee Nonnenmacher #, and Frank Giesselmann #

*\* Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic*

*# Institute of Physical Chemistry, University of Stuttgart*

**P17: Solid Phase Assisted Synthesis of Star-Shaped Liquid Crystalline Oligoesters and Oligoesteramides**

S. Gloza, M. Jahr, M. Lehmann

*Chemnitz University of Technology, Chemnitz*

**P18: Columnar Packing Motifs of Functionalized Perylene Derivatives:  
Local Molecular Order Despite Long-Range Disorder**

Michael Ryan Hansen, Robert Graf, Sivakumar Sekharan, and Daniel Sebastiani  
*Max-Planck-Institut für Polymerforschung, Mainz*

**P19: Oscillation dynamics of soap bubbles**

U. Kornek\*, K. Harth\*#, A. Hahn #, S. Ganesan #, L. Tobiska #, R. Stannarius\*, A. Eremin\*

\* *Institute of Experimental Physics, Otto von Guericke University, Magdeburg*

# *Institute of Analysis and Numerics, Otto von Guericke University, Magdeburg*

**P20: Liquid crystalline behaviour of shape-persistent macrocycles with  
nanoscale cavities**

Martin Fritzsche, Joscha Vollmeyer, Sigurd Höger

*Kekulé-Institut für Organische Chemie und Biochemie, Rheinische Friedrich-Wilhelms-Universität Bonn*

**P21: Counterion Effects on the Columnar Mesophases of Substituted [18]  
Crown-6 Ethers: Is Flatter Better?**

Martin Kaller, Sabine Laschat

*Institut für Organische Chemie, Universität Stuttgart*

**P22: Graphene – new electrode material for application in electro-optic  
devices**

Olga Kasdorf\*, Gaby Nordendorf\*, H.-S. Kitzerow\*, Yanyu Liang #%, Xinliang Feng # and Klaus Müllen #

\* *Department of Chemistry, University of Paderborn*

# *Max Planck Institute for Polymer Research, Mainz*

% *College of Materials Science and Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China*

**P23: Influence of a mesogenic dendrimer on morphology, fluorescence and  
electrical properties of polymer-fullerene hetero junction thin films**

O. Kasdorf\*, H.-S. Kitzerow\*, J. Lenoble #, and R. Deschenaux #

\* *Dept. of Chemistry, University of Paderborn, Paderborn, Germany*

# *Institut de Chimie, Université de Neuchâtel, Neuchâtel, Switzerland*

**P24: Phase Properties of Cyanobiphenyl Type Liquid Crystals Doped with  
1,3- bis [1-(Pyridine-2-yl) Methylidene Amino]-2-Propanol**

Zoulikha Khouba\*, Tayeb Benabdallah\*, Ulrich Maschke #

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**P25: Fluorescence confocal polarizing microscopy studies on liquid crystal /  
nanoparticle dispersions**

Martin Urbanski\*, Brandy Kinkead\*#, Torsten Hegmann #, Heinz-S. Kitzerow\*

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# *Department of Chemistry, University of Manitoba, Winnipeg, Canada*