



**BRITISH
LIQUID
CRYSTAL
SOCIETY**

Annual Meeting 2003

Fitzwilliam College, Cambridge

Meeting Programme

Monday April 7th 2003- Reddaway Room

12:20-13:40 **Registration and lunch**

13:40-14:10 O1 - R. Friend (*Invited*) - *Polymer electronics - interrelationship between electronic properties and structural control*

14:10-14:30 O2 - L. Stimson - *Computer simulation of macromolecular LC materials*

14:30-14:50 O3 - M. Wilson - *Atomistic simulations of liquid crystals*

14:50-15:10 O4 - M Neal - *Helical twisting power and scaled chiral indices in LCs doped with chiral molecules.*

15:10-15:30 **Coffee and Refreshments**

15:30-16:00 O5 BLCS Young Scientist - *To be announced*

16:00-16:20 O6 K-L Woon - *A spectroscopic Stokes parameter study of transmission and photoluminescence from a novel luminescent chiral nematic LC.*

16:20-16:40 O7 D. Earl - *The prediction of helical twisting powers for liquid crystal chiral dopants*

16:40-17:00 O8 - S. Mias - *Bistability in ferroelectric liquid crystal optically addressed SLMs*

17:00-17:30 BLCS Annual general meeting

19:00-19:30 **Reception**

19:30 **Dinner and 2003 GW Gray Medal Presentation in the Dining Hall**

Tuesday April 8th 2003- Reddaway Room

08:00-08:30 **Breakfast in the Dining Hall**

09:00-09:50 O9 Sturgeon Memorial Lecture; Prof. I-C Khoo - Pennsylvania State University - *Photorefractivity in liquid crystal materials*

09:50-10:10 O10 A. Dyadyusha - *Photosensitising PVK with C60 for light induced reorientation of LC molecules*

10:10-10:30 O11 J. Strömer - *Improved accuracy in the measurement of the twist elastic constant using a novel technique*

10:30-10:50 O12 H. Gleeson - *Getting the most out of the reflection spectra of chiral phases*

10:50-11:10 **Coffee and Refreshments**

11:10-11:40 O13 C. Brown (*Invited*) - *Flexoelectricity and the AC Freedericksz transition*

11:40-12:00 O14 V. Ilyina - *FDTD calculation of optically induced Freedricksz transition in nematic liquid crystals*

12:00-12:20 O15 A. Emelyanenko- *Theoretical model for a sequence of ferrielectric phases*

12:20-12:40 O16 E. Edwards - *Modelling the director structures in nematic liquid crystal cell containing surface relief structures using Q order parameter tensor*

12:45-13:40 **Lunch in the Dining Hall**

13:40-14:10 O17 M. Hird (*Invited*) - *The chemistry of thermotropic liquid crystals*

14:10-14:30 O18 S. Coulston - *Deformation formation in LC filled polymer SDs*

14:30-14:50 O19 A. McNeill - *Enhanced charge injection into discotic liquid crystals*

14:50-15:10 O20 R. Kiddle - *Ortho-difluorophenyl-naphthalenes for nematic mixtures of negative dielectric anisotropy and high birefringence*

15:10-15:30 **Coffee and Refreshments**

15:30-17:30 **Poster Session.** - Walter Grave Room

19:30 **Dinner and 2002 GW Gray Medal Presentation in the Dining Hall.**

Wednesday April 9th 2003- Reddaway Room

08:00-08:30 **Breakfast in the Dining Hall**

09:20-09:50 O21 T. Wilkinson (*Invited*) - *Applications of LC phase modulators*

09:50-10:10 O22 R. James - *Aspects of modelling of LC devices*

10:10-10:30 O23 D. Marenduzzo - *Lattice Boltzmann simulations of hydrodynamics in cholesteric liquid crystals*

10:30-10:50 O24 N. Roberts - *Liquid crystal inspired optics in polarisation vision*

10:50-11:10 **Coffee and Refreshments**

11:10-11:40 O25 R. Sambles (*Invited*) - *Microwaves, liquid crystals and slit structures*

11:40-12:00 O26 J. Kerslake - *Optical excitation of surface plasmons in HAN LC cells*

12:00-12:20 O27 S. Jewell - *Direct observation of backflow in HAN cell dynamics*

12:20-12:40 O28 J. Lydon - *Liquid crystalline phases of nucleic acids*

12:45-13:40 **Lunch in the Dining Hall**

End of Meeting



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