

*Program*

**ASSOCIATIONS IN SOLUTION**  
*for*  
***Function, Performance, and***  
***Synthesis***

**July 22-26, 2007**

**Il Ciocco Hotel and Conference Center, Barga, Italy**

**Conference Co-Chairs**

**Dr. Saad Khan**  
**North Carolina State University**

**Dr. Robert Prud'homme**  
**Princeton University**

**ECI**

**Engineering Conferences International**  
**6 MetroTech Center**  
**Brooklyn, NY 11201**

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**Sunday, July 22, 2007**

16:30 – 18:30

Registration

18:30 – 20:00

Opening Reception

20:00 – 21:30

Opening Dinner

**Monday, July 23, 2007**

07:30 – 08:30

Breakfast Buffet

08:30 – 08:45

Welcome and Conference Overview, S.A. Khan and R.K. Prud'homme  
ECI Technical Liaison: H. Bieber

**BIOLOGICAL AND FOOD SYSTEMS**

**Chair: R.K. Prud'homme**

8:45-9:25

STRUCTURE, DYNAMICS, AND PHASE BEHAVIOR OF LECITHIN-BASED  
MICROEMULSIONS  
Gerardo Palazzo, U. Bari, Italy

9:25:10:05

MICELLAR NETWORKS AND DILUTE LAMELLAR PHASES IN GLUCOSIDE  
SURFACTANT MIXTURES  
Eric Kaler, U. Delaware, USA

10:05-10:30

Coffee Break

10:30-11:10

EMULSION STABILIZED BY PROTEINS – SURFACTANT COVERED DROPS  
OR CAPSULES?  
Peter Fischer, ETH, Switzerland

11:10-11:50

AGGREGATION, GELATION AND PHASE SEPARATION OF GLOBULAR  
PROTEINS  
Dominique Durand, CNRS, France

11:50-12:30

INSTANT EMULSIONS  
Dan Jarvis, Unilever, The Netherlands

12:30 – 14:00

Lunch

14:00 – 17:00

Free Time for leisure, recreation, discussion, *ad hoc* sessions

17:00 – 17:30

Afternoon Coffee

**COLLOIDS AND NANOPARTICLES**

**Chair: Eric Kaler**

17:30 – 18:10

CONTROLLED CLUSTERING OF OXIDE NANOPARTICLES USING BLOCK  
COPOLYMERS FOR COATING AND BIOMEDICAL APPLICATIONS  
J.-F. Berret, CNRS, France

18:10-18:50

ELECTRIC FIELD DRIVEN ASSEMBLY OF COLLOIDAL PARTICLES INTO  
ONE-, TWO- AND THREE- DIMENSIONAL FUNCTIONAL STRUCTURES,  
Orlin D. Velev, North Carolina State University, USA

18:50 – 19:30

NANOPARTICLE FORMATION BY FLASH NANOPRECIPITATION USING  
BLOCK COPOLYMER DIRECTED SELF ASSEMBLY  
R.K. Prud'homme, Princeton University, USA

20:00 – 21:30

Dinner

21:30 – 22:30

Social Hour and poster session

**Tuesday, July 24, 2007**

07:30 – 08:30	Breakfast Buffet
	<b>NA NOSTRUCTURES AND GELS</b> <b>Chair: Gerardo Palazzo</b>
8:30-9:10	NANOTUBES OF A DIFFERENT KIND: CYCLODEXTRIN DYE INCLUSION COMPLEXES Mohan Srinivasarao, Georgia Tech, USA
9:10-9:50	KINETICS OF NANOTUBE FORMATION OF LIPO-AMINO ACID PEPTIDES, Dganit Danino (Technion, Israel)
9:50-10:30	FUNCTIONAL NANOFIBERS AND GELS OF SURFACTANT/ ASSOCIATIVE POLYMER SYSTEMS Saad Khan, NC State University, USA
10:30-11:00	Coffee Break
11:00-11:40	STRUCTURE AND DEFORMATION OF SOFT COLLOIDAL BLOCK COPOLYMER CO-CRYSTALS Lynn Walker, Carnegie Mellon, USA
11:40-12:20	THERMORHEOLOGICAL BEHAVIOUR AND STRUCTURE DEVELOPMENT OF PROTEIN-?-CARRAGEENAN MIXTURES J. Maia, U. Minho, Portugal
12:20 – 13:30	Lunch
13:30 – 18:30	Optional excursion to Lucca
20:00 – 21:30	Dinner
21:30 – 23:00	Social Hour and Posters

**Wednesday, July 25 2007**

07:30 – 08:30

Breakfast Buffet

**GENERAL**

**Chair: Samiul Amin**

8:30-9:10

FLUID-BICONTINUOUS SPONGE STABILIZED BY INTERFACIAL COLLOIDS

Paul S. Clegg, University of Edinburgh, UK

9:10-9:50

THE MICROSTRUCTURE OF DI-ALKYL CHAIN CATIONIC / NONIONIC SURFACTANT MIXTURES

J Penfold, CCLRC / Oxford, UK

9:50-10:30

SELF ASSEMBLING POLYMER MICROEMULSION GELS

Gregoire Porte, CNRS, France

10:30-11:00

Coffee Break

11:00-11:40

DO WORMLIKE MICELLES REALLY REPTATE ? ANSWERS FROM GEMINI SURFACTANTS

Martin In, CNRS, France

11:40-12:20

DISCOVERY OF THERMODYNAMICALLY STABLE PICKERING EMULSIONS

A.P. Philipse, Utrecht University, The Netherlands

12:30 – 14:00

Lunch

14:00 – 17:00

Free Time for leisure, recreation, discussion *ad hoc* sessions

17:00 – 17:30

Afternoon Coffee

**MACROMOLECULAR SYSTEMS**

**Chair: Jeff Penfold**

17:30 – 18:10

ION PAIRING AND CLUSTERING IN SOLUTIONS OF ION-CONTAINING POLYMERS

Ralph H. Colby, Penn State University, USA

18:10-18:50

TELECHILIC ASSOCIATIVE POLYMERS-RHEOLOGY AND MICELLIZATION IN AQUEOUS SOLUTION

Rob English. NEWI, UK

18:50 – 19:30

INFLUENCE OF ETHANOL AND SALT ON THE MORPHOLOGICAL CHANGES OF POLY(ETHYLENE OXIDE)-POLY(PROPYLENE OXIDE)-POLY(ETHYLENE OXIDE) BLOCK COPOLYMER ASSEMBLIES

A.G.Denkova, Delft University of Technology, The Netherlands

20:00

Conference Banquet

**Thursday, July 26, 2007**

07:30 – 08:30

Breakfast Buffet

**GENERAL**

**Chair: Ralph Colby**

8:30-9:10

TAILORING THERMO-RESPONSIVE SURFACTANTS FOR INDUSTRIAL SEPARATIONS AND CATALYSIS

J.M.K. Timmer, Eindhoven, The Netherlands

9:10-9:50

L3 PHASES STABILISED BY NON-IONIC POE SURFACTANTS EMPLOYED AS TEMPLATES FOR MEMBRANE PRODUCTION

F. Javier Escudero Sanz, U. Paul Sabatier, France

9:50-10:10

Coffee Break

10:10-10:50

SHEAR-INDUCED STRUCTURES IN LYTROPIC LAMELLAR PHASES: NMR STUDIES OF ONION FORMATION AND DESTRUCTION

Claudia Schmidt, U. Paderborn, Germany

10:50-11:30

WORMLIKE MICELLAR SOLUTION FORMING ALTERNATING VORTICITY BANDS – A TRIGGERED SANS, SALS, UVP AND BIREFRINGENCE STUDY

Peter Fischer, ETH, Switzerland

11:30-12:30

Lunch

12: 45 –

Departure