

Program

Tuesday, July 13th

14:00 – 20:00 **Registration** *Registration desk in hotel Samokov*

19:00 – 21:00 **Get-together party** *Restaurant of hotel Samokov*

Wednesday, July 14th

7:30 – 19:00 **Registration** *Registration desk in hotel Samokov*

Opening session COST D43 Symposium & Eufoam 2010 Conference; **Hall A (Bulgaria)**
Chair: D. Langevin

8:30 – 8:50 **P. Kralchevsky – Opening**

8:50 – 9:30 **F. Graner**

Plenary lecture: Foams as model systems: of complex fluids, of grain growth, of biological tissues

9:30 – 10:00 **N. Kristen, N. Schelero, R. von Klitzing**

D43-1/IL1: Control of foam film and wetting film stability by addition of (poly)electrolytes: electrostatics vs. ionspecificity

10:00 – 10:30 **S. Hutzler, M.E. Möbius, D. Weaire**

IL2: Foam mechanics (COST P21)

Coffee Break

Session COST D43 Symposium; Chair: B. Lindman **Hall C (Serdika)**

11:00 – 11:30 **Orlin Velev**

D43-2: Programmed Assembly and Manipulation of Complex Particles by Electric Fields

11:30 – 12:00 **Miklós Zrínyi**

D43-3: Colloidal particles that make smart polymer composites moving

12:00 – 12:30 **P.A. Kralchevsky, K.D. Danov, M.P. Boneva, N.C. Christov**

D43-4: Interactions and self-assembly of particles at liquid interfaces – new developments

12:30 – 13:00 **G. Yordanov, C. Dushkin**

D43-5: Nanoprecipitation approach in the preparation of poly(alkylcyanoacrylate) colloidal nanospheres

Lunch

Restaurant of hotel Samokov

Session COST D43 Symposium; Chair: R. von Klitzing **Hall C (Serdika)**

14:30 – 15:00 **B. Lindman, T. Nylander**

D43-6: Polysaccharide-Surfactant Interactions at Interfaces and in Bulk

15:00 – 15:25 **M. Miguel, B. Lindman, R. Dias, D. Costa, C. Moran**

D43-7: Mixtures of DNA with cationic surfactants: Gels, associative phase separation and gel nanoparticles

15:25 – 15:50 **S. Limage, M. Schmitt-Rozières, C. Dominici, J. Krägel, R. Miller, S. Vincent-Bonnieu, M. Antoni**

D43-8: Rheology of surfactant-particle mixtures

Coffee Break

Session COST D43 Symposium; Chair: M. Miguel **Hall C (Serdika)**

16:20 – 16:50 **F. Ravera, L. Liggieri, E. Santini, A. Maestro, R.G. Rubio, G. Loglio, J. Kraegel, D. Grigoriev, R. Miller**

D43-9: Rheological and structural properties of mixed layers of silica nanoparticles plus CTAB at water/air interface

16:50 – 17:20 **K.D. Danov, N.C. Christov, E.S. Basheva, P.A. Kralchevsky, Y. Zeng, R. von Klitzing**

D43-10: Structural forces in liquid films due to entrapped colloidal particles or surfactant micelles: Theory vs. experiment

17:30 – 19:30 **Poster session & light dinner**

Foyer of Hall A (Bulgaria)

Thursday, July 15th

Session COST D43 Symposium & Eufoam 2010 Conference; Chair: L. Ligierrri **Hall A (Bulgaria)**

- 9:00 – 9:40 **O. Velev**
Plenary lecture: Foam superstabilization and functionalization by particles with engineered structure and properties
- 9:40 – 10:10 **T. Horozov**
Invited lecture IL6: Solid particles in thin liquid films
- 10:10 – 10:40 **S. Stoyanov, E. Pelan, V.N. Paunov**
Invited lecture IL7: Foams stabilised by shape anisotropic particles

Coffee Break

Session COST D43 Symposium; Chair: M. Zrínyi **Hall C (Serdika)**

- 11:10 – 11:40 **G. Toquer, T. Zemb, D. Shchukin, H. Möhwald**
D43-11: Ionic physisorption on bubbles induced by pulsed ultra-sound
- 11:40 – 12:10 **E. Mileva, D. Arabadzhieva, P. Tchoukov, I. Grozev, B. Soklev, R. Todorov**
D43-12: Impact of Adsorption Layers on Foam Film Drainage Kinetics
- 12:10 – 12:35 **T.D. Gurkov, J. K. Angarska, K. Tachev, W. Gaschler**
D43-13: Statistics of Rupture in Relation to the Stability of Thin Liquid Films with Different Size
- 12:35 – 13:00 **N. Mucic, V. Pradines, V.B. Fainerman, E.V. Aksenenko, J. Krägel, R. Miller**
D43-14: Adsorption of alkyl trimethyl ammonium bromides at the water/air and water/hexane interfaces

Lunch

Restaurant of hotel Samokov

Session COST D43 Symposium; Chair: T. Zemb **Hall C (Serdika)**

- 14:30 – 15:00 **M. Fanun**
D43-15: Properties of microemulsions with mixed nonionic surfactants and citrus oil
- 15:00 – 15:25 **E.D. Tzika, M. Christoforou, S. Pispas, V. Papadimitriou, S.G. Sotiroudis, E. Leontidis, A. Xenakis**
D43-16: Olive oil-based w/o nano-emulsions: a novel biomimetic system for studying oxidative enzymatic reactions
- 15:25 – 15:50 **S. Limage, M. Schmitt, C. Dominici, M. Antoni**
D43-17: From polymorphous to spherical dispersed phase transition in water/oil emulsions

Coffee Break

Session COST D43 Symposium; Chair: O. Velev **Hall C (Serdika)**

- 16:20 – 16:50 **L. Isa, E. Amstad, K. Kumar, M. Textor, E. Reimhult**
D43-18: Assembly of hard sphere and hard core-soft shell nanoparticles at liquid-liquid interfaces for patterning and functional materials
- 16:50 – 17:20 **J. Katrlík, R. Škrabana, D. Mislovičová, P. Gemeiner**
D43-19: Interaction of Lectin-Modified Surface with Glycoproteins on Surface Plasmon Resonance Biochip
- 17:20 – 17:30 **P. Kralchevsky**
Closing of the COST D43 Symposium

17:30 – 19:00 **Poster session** *Foyer of Hall A (Bulgaria)*

20:00 – 24:00 **Gala dinner** *Restaurant of hotel Samokov*

Friday, July 16th

Session Eufoam 2010: Modern applications; Chair: Th. Karapantsios

Hall A (Bulgaria)

9:00 – 9:40 **A. Lips**
Plenary lecture: Successes and future challenges for foam science

9:40 – 10:10 **M. Edirisinghe, E. Stride**
Invited lecture IL11: Bubbling, foaming and capsule preparation

Session: Emulsions as bi-liquid foams; Chair: Th. Karapantsios

10:10 – 10:40 **A. Colin**
Invited lecture IL12: Flow of concentrated emulsions

Coffee Break

**Session Eufoam 2010: Foam Stability: Drainage, Coarsening, and Coalescence;
Chair: R. Miller**

Hall A (Bulgaria)

11:10 – 11:40 **R. Krastev**
Invited lecture IL13: Gas permeability of single foam films

11:40 – 12:00 **J. Goyon, F. Bertrand, G. Ovarlez, O. Pitois**
O22: Study of shear induced drainage of foamy emulsions through MRI

12:00 – 12:20 **A. Delbos, O. Pitois, E. Lorenceau, M. Vignes-Adler**
O23: Forced foam flow through a pore

12:20 – 12:40 **B. P. Binks, P. D. I. Fletcher, M. P. Gahagan, E. L. Sharp**
O24: Non-aqueous foams in lubricating oil systems

12:40 – 13:00 **F. Garcia-Moreno, A. Stocco, I. Manke, J. Banhart, D. Langevin**
O25: X-ray tomography of aqueous foams

Lunch

Restaurant of hotel Samokov

Parallel Session Eufoam 2010: Experimental Techniques; Chair: M. Adler

Hall A (Bulgaria)

14:30 – 14:50 **K. Niranjana, C. Jimenez-Junca, J.-C. Gomy, A. Sher**
O26: Non-isothermal destabilization of steam injected milk foams: characterization and interface visualization

14:50 – 15:10 **R.A. Kil, Q.P. Nguyen, W.R. Rossen**
O27: Determining trapped gas in foam in porous media from CT images

15:10 – 15:30 **R.M. Guillermic, M. Erpelding, I. Ben Salem, B. Dollet, J. Crassous, A. Saint-Jalmes**
O28: New experimental results on foam acoustics

15:30 – 15:50 **A. Bretagne, V. Leroy, C. Derec, F. Elias**
O29: Probing foams with ultrasound

**Parallel Session Eufoam 2010: Physical Chemistry of Foams, Thin Liquid Films;
Chair: S. Stoyanov**

Hall B (Rodina)

14:30 – 14:50 **D. Varade, D. Carriere, W. Drenckhan, E. Rio, A. Stocco, D. Langevin**
O30: Superstable foams made from catanionic surfactant mixtures

14:50 – 15:10 **L.N. Arnaudov, S.D. Stoyanov, S.A. Semerdzhiev, M.A. Cohen Stuart**
O31: Highly efficient interface-assisted colloid fabrication

15:10 – 15:30 **C. Stubenrauch**
O32: Mixtures of n-dodecyl- β -D-maltoside and hexaoxyethylene dodecyl ether - surface properties, foam films, and foams

15:30 – 15:50 **T. Gambaryan-Roisman**
O33: Dynamics of free liquid films during formation of polymer foams

Coffee Break

Closing session Eufoam 2010; Chair: M. Adler

Hall A (Bulgaria)

16:20 – 16:50 **L.K. Shrestha, K. Ariga, K. Aramaki**
Invited lecture IL14: Highly stable nonaqueous foams in glycerol-based nonionic surfactant/oil systems

16:50 – 17:10 **N. Denkov**
Closing and presenting next Eufoam 2012 conference

List of Poster presentations

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| P1 | J. Chen, R. Vogel, S. Werner, G. Heinrich, D. Clause, <u>V. Dutschk</u> | Influence of the particle type on the rheological behaviour of Pickering emulsions |
| P2 | J. Chen, R. Vogel, G. Petzold, D. Clause, <u>V. Dutschk</u> | Rheological behaviour of aqueous suspo-emulsions stabilized by alumina nanoparticles and emulsifier |
| P3 | <u>S. Gómez-Graña</u> , A. Guerrero-Martínez, L.M. Liz-Marzán | Effect of novel gemini surfactants on the self-assembly of gold nanorods into standing superlattices |
| P4 | <u>N.V. Kaneva</u> , C.D. Dushkin | Photocatalytic activity of nanostructured thin films and powders of ZnO mixed with zinc ferrite(III) |
| P5 | <u>L. Krasteva</u> , K. Papazova, C. Dushkin, D. Dimitrov | Ga- and Cu-doped ZnO thin films synthesised by sol-gel process for sensor applications |
| P6 | <u>B.I. Stefanov</u> , C.D. Dushkin | Novel integrated reactor for tests of the photocatalytic activity of immobilized thin films of TiO ₂ and nickel modified TiO ₂ under UV and visible light |
| P7 | <u>Z. Bedzhova</u> , G. Yordanov, C. Dushkin | Colloidal poly(butylcyanoacrylate) particles prepared by polymerization and nanoprecipitation: a comparative study of methods |
| P8 | <u>P. Vasileva</u> , B. Donkova, C. Dushkin | Synthesis of starch-stabilized silver nanoparticles and their application as a LSPR-based hydrogen peroxide sensor |
| P9 | <u>M. Żubrowska</u> , K. Wojciechowski, W. Wróblewski, R. Krastev | Effect of Type of Anion on the Thickness of Foam and Emulsion films Stabilized with CTAB |
| P10 | <u>A. Sharipova</u> , S. Aidarova, N. Mucic, A. Javadi, V. Dutschk, R. Miller | Dynamic and equilibrium interfacial tensions of alkyl sulfates of different alkyl chain lengths at the water/oil interface |
| P11 | K.D. Danov, <u>E.S. Basheva</u> , P.A. Kralchevsky, K.P. Ananthapadmanabhan, A. Lips | Oscillatory-structural and depletion forces due to charged surfactant micelles: theory vs. experiment |
| P12 | <u>E.K. Kostova</u> , T.D. Gurkov, W. Gaschler | Thickening of Polymer-Stabilized Aqueous Dispersions under Compressional Stress |
| P13 | <u>M.P. Boneva</u> , K.D. Danov, N.C. Christov, P.A. Kralchevsky | Attraction between particles at a liquid interface due to the interplay of gravity- and electric-field-induced interfacial deformations |
| P14 | P. Kralchevsky, <u>S.S. Kirkova</u> , K.D. Danov, A.J. Post, K.P. Ananthapadmanabhan | Solubility of fatty acids (C12 – C18) in micellar solutions of anionic and zwitterionic surfactants |
| P15 | <u>K.G. Marinova</u> , R. Stanimirova, M.T. Georgiev, N. Alexandrov, E. Basheva | Co-adsorption in solutions of BSA and β -casein studied by solution exchange experiments with pendant bubbles and thin films |