

## Program

### Tuesday, July 13<sup>th</sup>

14:00 – 20:00 **Registration**

*Registration desk in hotel Samokov*

### Wednesday, July 14<sup>th</sup>

7:30 – 19:00 **Registration**

*Registration desk in hotel Samokov*

**Opening session: Eufoam Conference, COST P21 Meeting, COST D43 Symposium** **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**

*Invited lecture IL1: Control of foam film and wetting film stability by addition of (poly)electrolytes: electrostatics vs. ionspecificity (COST D43)*

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

*Invited lecture IL2: Foam mechanics (COST P21-1)*

#### **Coffee Break**

**Session COST P21: Presentations WG2; Chair: L. Liggieri** **Hall B (Rodina)**

11:00 – 11:30 **A. Javadi, N. Mucic, J. Krägel, R. Wüstneck, V.I. Kovalchuk, E.V. Aksenenko, G. Loglio, L. Liggieri, R. Miller,**

P21-2: Oscillating and growing drop studies for characterizing the dynamics of adsorbed layers

11:30 – 11:50 **I. Blute, R.J. Pugh, J. van de Pas, I. Callaghan**

P21-3: Silica nanoparticles as foam stabilizing surfactants

11:50 – 12:10 **S. Tcholakova, Z. Mitrinova, K. Golemanov, N. D. Denkov, A. Lips**

P21-4: Ostwald ripening in foams and concentrated emulsions

12:10 – 12:30 **E. Georgiou, Th.D. Karapantsios, M. Kostoglou**

P21-5: Measurement of thin film drainage among neighbouring foam bubbles of unequal size

#### **Lunch**

**Session COST P21: Presentations WG1 & WG2; Chair: D. van den Ende** **Hall B (Rodina)**

14:30 – 15:00 **J. Zawala, D. Terwagne, S. Dorbolo, N. Vandewalle, K. Malysa**

P21-6: On mechanism of the bubble and droplet bouncing from the liquid/gas interface

15:00 – 15:30 **N.D. Denkov, I. Lesov, K. Golemanov, S. Tcholakova, S. Judat**

P21-7: Drop breakup in emulsions with high concentration of dispersed phase

15:30 – 15:50 **T. Gambaryan-Roisman, M. Budakli, I. V. Roisman, P. Stephan**

P21-8: Effect of surface topography on hydrodynamics and heat transfer during drop impact onto a heated wetted wall

#### **Coffee Break**

**Parallel Session Eufoam 2010: Foam Structure and Modelling; Chair: S. Hutzler** **Hall A (Bulgaria)**

16:20 – 16:40 **C. Oquey**

O5: Long range topological correlations in cellular assemblies

16:40 – 17:00 **M. Fátima Vaz, S.J. Cox, P.I.C. Teixeira**

O6: Defects in bubble clusters: simulation and analytical approach

17:00 – 17:20 **M. Durand**

O7: Statistical mechanics of two-dimensional cellular patterns

**Parallel Session Eufoam 2010: Ind. Proc. & Sustainable Development;** **Hall B (Rodina)**  
**Chair: L. Arnaudov**

16:20 – 16:40 **A. Sher, J-C. Gummy, S. Livings, C. Jimenez-Junca, K. Niranjana**

O8: Bubble mechanics of milk foams generated by steam injection and mechanical whipping

16:40 – 17:00 **J. Merz, H. Zorn, B. Burghoff, G. Schembecker**

O9: Purification of a fungal cutinase by adsorptive bubble separation: A statistical approach

17:00 – 17:20 **W. Doelling, R. Poss, A.-S. Dreher**

O10: System level definition for deep-bed filtration using open pore nickel and iron-based alloy metal foams

17:30 – 19:30 **Poster session**

*Foyer of Hall A (Bulgaria)*

**Thursday, July 15<sup>th</sup>**

**Common Session: Eufoam Conference, COST P21, COST D43; Chair: L. Liggieri** 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**

**COST P21: Final meeting of the Management Committee** Hall B (Rodina)

11:00 – 13:00

**Lunch**

**Session COST P21: Presentations WG3; Chair: M. Adler** Hall B (Rodina)

- 14:30 – 15:00 **E. Varka, Th.D. Karapantsios**  
P21-9: Forest fire fighting foams: Foam drainage dependence on interfacial properties of fire retardant solutions
- 15:00 – 15:30 **A. Britan**  
P21-10: Aqueous foam barrier against blast waves
- 15:30 – 15:50 **V. Nastasa, I. R. Andrei, A. Militaru, M.L. Pascu**  
P21-11: Interaction of micro-droplets with laser beams

**Coffee Break**

**Parallel Session Eufoam 2010: Foam Rheology; Chair: M. Dennin** Hall A (Bulgaria)

- 16:20 – 16:40 **C. Raufaste, S.J. Cox, P. Marmottant, F. Graner**  
O16: Orientational effects in the flow of liquid foams
- 16:40 – 17:00 **I. Irausquin, J.L. Perez-Castellanos**  
O17: Finite element model for the analysis of a closed-cell metal foam under compression
- 17:00 – 17:20 **E. Ashoori, D. Marchesin, W.R. Rossen**  
O18: The roles of dynamic foam behavior in enhanced petroleum recovery

**Parallel Session Eufoam 2010: Physical Chemistry of Foams, Thin Liquid Films; Chair: T. Horozov** Hall B (Rodina)

- 16:20 – 16:40 **A-L. Fameau, B. Houinsou-Houssou, F. Cousin, F. Boue, J-P. Douliez, B. Novales**  
O19: Impact of the structure of fatty acids supramolecular assemblies on the interfacial and foaming properties
- 16:40 – 17:00 **A. Salonen, M. In, J. Emile, A. Saint-Jalmes**  
O20: Solutions of surfactant oligomers: A model system for tuning foam stability by the surfactant Structure
- 17:00 – 17:20 **H. Petkova, Khr. Khristov, D. Exerowa, J. Beetge, J. Venter**  
O21: Molecular structure of “star-like” diethylenetriamine-based polymeric surfactants and the properties of foam films

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

**List of Poster Presentations at the COST P21 Final MC and WG Meetings in Borovets**

P1	<u>C. O' Donovan</u> , D. Weaire, S. Hutzler, M.E. Möbius	Spatial correlations in a wet foam
P2	<u>S. Dorbolo</u> , D. Terwagne, N. Vandewalle, N. Denkov	Antibubbles: confined air flow dynamics
P3	<u>I. Lesov</u> , S. Tcholakova, K. Golemanov, N. Denkov, S. Judat	Drop Size in Concentrated Emulsions, Obtained by Rotor-Stator Homogenization
P4	S. Limage, M. Schmitt, C. Dominici, E. Santini, M. Antoni, J. Krägel, R. Miller, F. Ravera, <u>L. Liggieri</u>	Cryo-SEM investigations of emulsions stabilised by associations of nanometric silica and CTAB
P5	<u>M. Liverts</u> , A. Britan and G. Ben-Dor	Acoustic/shock wave mitigation by particulate foam barriers
P6	G. Loglio, P. Pandolfini, J. Krägel, A. Javadi, R. Miller, A.V. Makievski, B.A. Noskov, <u>L. Liggieri</u> , F. Ravera	Interfacial properties of water/hydrocarbon systems: Experimental study of high-frequency drop oscillations
P7	<u>A. Maestro</u> , E. Santini, F. Ravera, L. Liggieri, R. Miller, F. Ortega, R. G. Rubio	Dynamics of nanoparticle-surfactant interfacial mixed layers
P8	M.Ferrari, <u>L.Liggieri</u> , F.Ravera, <u>E.Santini</u>	Liquid-air and liquid-liquid surfactant systems in contact with superhydrophobic surfaces
P9	<u>V.Nastasa</u> , K.Samaras, E.Dafnopatidou, T.Karapantsios, M.L.Pascu	Studies on the generation of micro/nano droplets of oil in mixtures of Tween 80 surfactant and water
P10	V. Starov, <u>S. Semenov</u> , R. Rubio	Kinetics of Evaporation of Droplets
P11	<u>M. Sexton</u> , M.E. Möbius, D. Weaire, S. Hutzler	Shear-induced bubble fluctuations in the soft disc model
P12	<u>H. Shapiro</u> , A. Britan, G. Ben-Dor	Advances in the numerical simulations of blast wave/foam interaction
P13	<u>M. Simjoo</u> , H. Guo, P. L. J. Zitha	Rheological transition of foam in porous media
P14	<u>A.Testouri</u> , C. Honorez, A. Barillec, D. Langevin, A. Ponton, V. Leroy, W. Drenckhan	Highly structured foams from chitosan gels
P15	<u>Z. Vinarov</u> , S. Alatova, Y. Atanasov, Y. Petkova, S. Tcholakova, N. Denkov, S. Stoyanov, A. Lips	Effect of surfactants on lipase activity under conditions mimicking the human digestive tract
P16	D. Kosior, <u>J. Zawala</u> , M. Krasowska, K. Malysa	Air at hydrophobic surfaces and the three-phase contact formation
P17	<u>E. Wajnryb</u> , B. Cichocki, J. Bławdziewicz, J.K.G. Dhont, P. Lang	The intensity correlation function in evanescent wave scattering
P18	<u>J. Bak</u> , T.R. Sosnowski	Droplet characteristics of aerosolised liquid drugs
P19	J. Bławdziewicz, M. L. Ekiel-Jezewska, <u>E. Wajnryb</u>	Motion of a spherical particle near a planar fluid-fluid interface: the effect of surface incompressibility
P20	D. Kosior, <u>J. Zawala</u> , M. Krasowska, K. Malysa	Air at hydrophobic surfaces and the three-phase contact formation