

Wednesday 20 March - morning - joint meeting of MP1004, MP1103 and MP1106

	Room B	Room C
8:00 - 8:30	Registration	
8:30 - 9:00	Openning	
9:00 - 9:15	Amelia Montone: Information on MP1103 (p. 85)	
9:15 - 9:30	Dalik Sojref: Information on MP1004	
9:30 - 9:45	Karapantsios: Information on MP1106	
9:45 - 10:15	Coffee	

Wednesday 20 March - morning - before coffee break

	Materials and energy A1 (Chairs: P. Hall, F. Beguin)	Materials and energy B1 (Chairs: M. Dormstein, T. Spassov)
10:15 - 10:30	Francois Beguin: Energy density enhancement of AC/AC capacitors in aqueous electrolyte through hydrogen storage in the negative electrode (MP1004). (p. 14 - Beguin, Frackowiak)	Tony Spassov: Mg/C nanocomposites for Hydrogen storage (MP1103). (p. 121 - Spassov)
10:30 - 10:45	<i>Beguin - cont.</i>	David Antonelli: Exploiting the Kubas interaction in Hydrogen Storage (MP1103). (p. 44 - Hoang, Antonelli)
10:45 - 11:00	Victoria Dutschk: Multi-functional complex liquids for coating semi/porous surfaces (MP1106). (p. 27 - Dutschk, Boroumand, de Rosa, Zhao)	Gunars Bajars: LiFePO ₄ cathode – electrolyte interface in lithium ion batteries (MP1106). (p. 8 - Bajars, Kucinskis, Bikova, Kleperis)
11:00 - 11:15	Steve Tennison: Hydrogen storage and supercapacitors (MP1004). (p. 128 - Tennison)	Kondo-Francois Aguey-Zinsou: Controlled nanoarchitectures for the effective storage of hydrogen (MP1103). (p. 1 - Aguey-Zinsou)
11:15 - 11:30	<i>Tennison - cont.</i>	Martin Dornheim: Novel Materials and Systems for Solid Hydrogen Storage (MP1103). (p. 26 - Dornheim)
11:30 - 11:45	Johan E. ten Elshof: Langmuir-Blodgett films of 2D metal oxide nanosheets as textured crystalline interfaces (MP1106). (p. 127 - ten Elshof)	Umit B. Demirci: Nanostructure-assisted hydrogen generation by hydro-/thermo-lysis of boranes (MP1103). (p. 21 - Demirci)
11:45 - 12:00	Chiara Milanese: Thermodynamic and kinetic characterization of the catalysed LiBH ₄ - MgH ₂ system (MP1103). (p. 81 - Milanese, Jepsen, Girella, von Colbe, Dornheim, Klassen, Marini)	Fatima Montemor: Nickel doped manganese oxide electrodes for redox supercapacitors (MP1004). (p. 89 - Nguyen, Eugénio, Duarte, Silva, Carmezim, Boudard, Montemor)
12:00 - 12:15	Fabrice Leardini: Ethane 1,2-diamineborane as a new derivative of ammonia borane for hydrogen storage: desorption and relaxational properties (MP1103). (p. 64 - Leardini, Paolone, Palumbo, Cantelli, Valero-Pedraza, Perez-Mayoral, Bañares)	Sónia Eugénio: Electrodeposition of Ni-Cu and Ni-Co-Cu porous foams using hydrogen bubble template (MP1106). (p. 29 - Eugénio, Carmezim, Silva, Montemor)
12:15 - 13:15	Lunch	
13:15 - 13:30	family photo (yard, if nice weather; Room B if rainy)	

Wednesday 20 March - afternoon - joint meeting of MP1004, MP1103 and MP1106

	Materials and energy A1 (Chairs: S. Tennison, F. Aguey-Zinsou)	Materials and energy B2 (Chairs: D. Antonelli, F. Montemor)
13:30 - 13:45	Holger Gerdes: Patterned surface treatment by microplasmas to obtain area selective wettability of surfaces (MP1106). (p. 129 - Thomas, Gerdes, Eichler, Klages)	Juan Kiwi: Uniform, adhesive, robust Cu/TiO ₂ films inducing eco-friendly bacterial/viral inactivation under low intensity solar light (MP1106). (p. 54 - Kiwi, Rtimi, Pulgarin, Sanjines)
13:45 - 14:00	Ramiro Ruiz-Rosas: Electrochemical performance of hierarchical carbon structures obtained from lignin infiltration of zeolite templates (MP1004). (p. 110 - Ruiz-Rosas)	Aleš Jäger: Nanostructuring of bulk Mg and its alloys via severe plastic deformation (MP1103). (p. 48 - Jäger, Švec, Duchoň, Gärtnerová)
14:00 - 14:15	Stuart Turner: Hybrid metal-organic framework structures studied by advanced transmission electron microscopy (MP1103). (p. 133 - Turner, Wiktor, Fischer, Van Tendeloo)	Mojtaba Mirzaeian: Diagnostic Studies to Improve Abuse Tolerance and Life of Li-Air Batteries (MP1004). (p. 83 - Mirzaeian, Hall, Rennie, Noofeli)
14:15 - 15:00	Coffee & posters	
15:00 - 16:00	Roundtable: Joint activities of MP1004, MP1103, MP1106 (Moderator: Peter Hall)	
16:30 - 19:00	City tour	
20:00 - 23:00	Dinner (joint meeting)	

Thursday 21 March - morning, before coffee break

	Room A	Room B	Room C
8:00 - 8:30	Registration		
8:30 - 9:00	Openning		
9:00 - 9:30	Plenary (Chair: L. Liggieri) S. M. Moghimi: Challenges in Translational Nanomedicine. (p. 84 - Moghimi)		
	Bubbles & Drops Interfaces (Chair: R. Miller, J. Petkov)	Evaporating droplets on solids (Chair: C. van der Geld, M. Sanahan)	Materials (Chair: V. Dutschk, M. Ersöz)
9:30 - 9:45	Glen McHale: Dielectrowetting Control of Droplets of Non-Conducting Liquids. (p. 76 - McHale, Trabi, Brown, Newton, Sampara)	David Brutin: Droplets of pure and complex fluids evaporation: wetting, instabilities and pattern formation. (p. 18 - Carle, Bouzeid, Brutin)	I. Malavasi: How to choose among different kinds of superhydrophobic surfaces? Innovative test protocol on ageing of superhydrophobic surfaces. (p. 72 - Malavasi, Bernagozzi, Antonini, Marengo)
9:45 - 10:00	Kazimierz Malysa: Influence of n-octanol on the bubble bouncing and coalescence time at solution surface. (p. 56 - Kosior, Zawala, Malysa)	David Fairhurst: Deposits from evaporating droplets. (p. 9 - Baldwin, Yohana Msambwa, Fouzia Ouali, David Fairhurst)	Arnaud Saint-Jalmes: Wide tuning of interfacial viscoelasticity and bulk rheology using thermoresponsive supramolecular assemblies of fatty acids. (p. 31 - Fameau, Saint-Jalmes)
10:00 - 10:15	Francesc Suñol: Bubble bouncing with a free surface in hypergravity conditions. (p. 124 - Suñol, González-Cinca)	Věra Pěnkavová: Interfacial characteristics of colloidal dispersions: The apparent wall slip and its detection. (p. 98 - Pěnkavová, Wein)	Elena Mileva: Thermoresponsive PNIPAM-g-PEO nanoparticles for delivery of NSAIDs. (p. 119 - Soklev, Soklev, Mileva, Arabadzhieva)
10:15 - 10:30	Benoit Haut: Multiscale analysis of gas absorption in liquids. (p. 140 - Wylock, Dehaeck, Mikaelian, Larcy, Talbot, Colinet, Haut)	Marcus C. Lopes : Controlling the evaporation of sessile drops by surface softness. (p. 71 - Lopes , Bonaccorso)	James K. Ferri : Programmable Thermoresponsive Polymers for Interfacial Stabilization. (p. 34 - Gambinossi, Chanana, Mylon, Ferri)
10:30 - 11:00	Coffee + Registration		

Thursday 21 March - morning, after coffee break

	Interfacial adsorption & rheology (Chair: D. Langevin, F. Ravera)	Materials and energy - joint meeting of MP1004, MP1103 and MP1106 (Chair: D. Sojref, A. Montone)	Bioscience & Biotechnology (Chair: S. Caserta, N. McMillan)
11:00 - 11:15	Krastanka G. Marinova: Co-adsorption in mixed protein and/or surfactant solutions studied by solution exchange experiments with pendant bubbles and thin films. (p. 74 - Marinova, Basheva, Stanimirova, Georgiev, Alexandrov, Danov, Kralchevsky)	Andreas Züttel: Closing the cycle with hydrogen (MP1103). (p. 143 - Züttel)	Klaus Unfried: Molecular mechanisms of nanoparticle-cell interaction: physico/chemical properties determining membrane-dependent cell signalling events. (p. 125 - Sydlik, Peuschel, Stöckmann, Bieschke, Autengruber, Gotić, Grether-Beck, Unfried)
11:15 - 11:30	Reinhard Miller: Adsorption layer properties of alkyl trimethyl ammonium bromides CnTAB at different liquid interfaces. (p. 88 - Mucic, Kovalchuk, Aksenenko, Fainerman, Miller)	<i>(Andreas Züttel - cont.)</i>	Libero Liggieri: Effects of carbonaceous nanoparticles on the surface properties of model lung surfactant layers. (p. 67 - Liggieri, Guzman, Santini, Ferrari, Ravera)
11:30 - 11:45	Theodor D. Gurkov: Rheology of interfacial layers at different density and degree of entanglement. (p. 40 - Gurkov, Stanimirova, Nenova)	Zoran Šaponjić: In situ generation of Ag nanoparticles on polyester and cotton fabrics by photoreduction using TiO ₂ nanoparticles (MP1106). (p. 82 - Milošević, Saponjić, Radoičić, Nunney, Marković, Nedeljković, Radetić)	Tomasz R. Sosnowski: Atomization of biocolloids: a perspective for regenerative inhalation therapy?. (p. 120 - Sosnowski, Kurowska)
11:45 - 12:00	Gisle Øye: Dynamic adsorption of dissolved oil compounds in produced water onto air bubbles: Influence of crude oil and water composition. (p. 28 - Eftekhardakhah, Øye)	Jose Ramón Ares Fernández: Decomposition of MgH ₂ thin films investigated by Ion beam techniques (MP1103). (p. 4 - Ares, Ferrer, Fernández, Sánchez)	Sandor Barany : Flocculation of bacterial suspensions using polyelectrolytes. (p. 11 - Barany)
12:00 - 12:15	Simeon D. Stoyanov: Surface dilatational rheology of triterpenoid and steroid saponins on the air/water interface. (p. 37 - Golemanov, Golemanov, Borisova, Tcholakova, Denkov, Pelan, Stoyanov)	Spyros Voutetakis: A Computer-Aided Molecular Design Approach for the Synthesis of Novel Chemicals and Mixtures (MP1106). (p. 94 - Papadopoulos, Seferlis, Voutetakis)	Ivana Fenoglio: Proteins/nanoparticles interactions in the toxicity of nanomaterials. (p. 32 - Fenoglio, Marucco, Turci, Ghibaudi)
12:15 - 12:30	Boris Noskov: Dynamic properties of mixed nanoparticle/surfactant adsorption layers. (p. 91 - Noskov, Yazhgur, Liggieri, Lin, Loglio, Miller, Ravera)	Ádám Révész: Microstructural evolution of ball-milled Mg-Ni powder during hydrogen sorption (MP1103). (p. 108 - Révész)	Daniel Ruiz-Molina: Smart bionanostructures and interfaces via direct reaction of functionalized catechol. (p. 111 - Saiz-Poseu, García, Sedó, Hernando, Busqué, Ruiz-Molina)
12:30 - 13:45	Lunch		
13:45 - 14:00	family photo (yard, if nice weather; Room A if rainy)		

Thursday 21 March - afternoon, before coffee break

	Room A	Room B	Room C
14:00 - 14:30	<p>Plenary (Chair: M. Marengo)</p> <p>Mohamed S. Hamed: Mechanistic Wall Heat Flux Partitioning Model of Nucleate Boiling Under Impinging Jets. (p. 93 - Omar, Hamed)</p>		
	<p>Bubbles & Drops Interfaces (Chair: J. K. Ferri, S. Stoyanov)</p>	<p>Foams (Chair: E. Mileva, A. Saint-Jalmes)</p>	<p>Particles, evaporating droplets (Chair: H. Kuhlmann, D. Fairhurst)</p>
14:30 - 14:45	<p>J. G. M. Kuerten: Evaporation and adsorption of drops on solid and porous substrates. (p. 118 - Siregar, Kuerten, van der Geld)</p>	<p>Dominique Langevin: On the “very stable” aqueous foams. (p. 6 - Arriaga, Drenckhan, Rio, Salonen, Langevin)</p>	<p>Miguel A. Cabrerizo-Vílchez: Formation of nanoparticle ring-like deposits at driven receding contact lines. (p. 86 - Moraila-Martínez, Cabrerizo-Vílchez, Rodríguez-Valverde)</p>
14:45 - 15:00	<p>Julien Sebilleau: Growth, sliding and detachment of a bubble near a wall:effect of the wetting conditions. (p. 114 - Sebilleau, Colin)</p>	<p>S. T. Tobin: A model system for foam fractionation. (p. 131 - Tobin, Hutzler, Meagher, Marguerite, Weaire)</p>	<p>Martin E. R. Shanahan: Structure of “coffee-ring” nano-deposits following drop evaporation. (p. 116 - Shanahan, Askounis, Koutsos, Sefiane)</p>
15:00 - 15:15	<p>Jean-Francois Argillier: Impact of water soluble polymers on oil removal by air flotation. (p. 87 - Mouazen, Boufarguine, Hénaut, Argillier)</p>	<p>Tuomo Hjelt: Foam processes at VTT. (p. 43 - Hjelt, Lehmonen)</p>	<p>Khellil Sefiane: Dynamics of three phase contact lines of evaporating nanofluid droplets. (p. 115 - Sefiane, Shanahan, Orejon)</p>
15:15 - 15:30	<p>Mickaël Antoni: Drainage dynamics of water/surfactant droplets in paraffin oil. (p. 65 - Lekhlifi, Ouazzani, Antoni)</p>	<p>Jordan Petkov : Particulates for stabilizing foams and emulsions: the challenges remain. (p. 102 - Petkov)</p>	<p>Vasileios Koutsos: Poly(ethylene oxide)-based structures self-assembled on surfaces after evaporation from aqueous solutions. (p. 59 - Koutsos, Mamalis, Kalloudis, Sefiane)</p>
15:30 - 15:45	<p>Sergio Caserta: Flow behavior of complex interfaces: the case of surfactant vesicles. (p. 103 - Pommella, Caserta, Guido)</p>	<p>Anniina Salonen: Foaming Emulsions. (p. 141 - Yazhgur, Yoshitake, Heitkam, Rio, Saint-Jalmes, Langevin, Salonen)</p>	<p>Tatiana Gambaryan-Roisman: Measurement of temperature field in a droplet by Laser Induced Fluorescence and by Fluorescence Lifetime Imaging Microscopy. (p. 123 - Still, Gambaryan-Roisman, Stephan)</p>
15:45 - 16:45	<p>Coffee + posters</p>		

Thursday 21 March - afternoon, after coffee break

	Macroscopic interfaces (Chair: J. Vejraska, R. Gonzalez-Cinca)	Interactions in droplets & particles (Chair: S. Barany, M. Pascu)	Modelling (Chair: M. Kostoglou, M. Antoni)
16:45 - 17:00	Antonio Perazzo: Multiphase fluids in confined flow. (p. 19 - Caserta, Perazzo, Preziosi, D'Apolito, Tomaiuolo, Pommella, Guido)	Alexandr Malijevsky: Wedge filling: A novel way to observe critical surface phenomena. (p. 73 - Malijevsky, Parry)	Metin Muradoglu: A Front-Tracking Method for Computational Modeling of Viscoelastic Two-Phase System. (p. 47 - Izbassarov, Olgac, Muradoglu)
17:00 - 17:15	John S. Lioumbas: Effect of gravity on heat and mass transfer phenomena during the immersion of a water saturated porous matrix in hot oil. (p. 69 - Lioumbas, Karapantsios)	Yoav Tsori: Stabilization of colloids by addition of salt. (p. 112 - Samin, Tsori)	Alexander Kartushinsky: Turbulent particulate pipe flow at constant Reynolds number. (p. 52 - Kartushinsky, Michaelides, Rudi, Tisler)
17:15 - 17:30	Cees van der Geld: Design rules of swirl nozzles for steam attemperation. (p. 134 - van Banning, van der Geld, Broos, Strebe)	Bernhard Peters: Experimental and Numerical Investigations into the Coating Process of a Single Particle. (p. 101 - Peters, Amirfazli)	Mehmet Yildiz: Modeling of Three Phase Flow by Incompressible Smoothed Particle Hydrodynamics. (p. 132 - Tofighi, Yildiz)
17:30 - 17:45	N. Andritsos: Effect of fluid properties on gas-sheared and free interfaces. (p. 3 - Andritsos, Bontozoglou, Vlachogiannis, Georgantaki, Cao)	Andrej Jeromen: Metal droplet detachment regimes in ring cross-section conical laser beam droplet generation. (p. 49 - Jeromen, Govekar)	<i>(cancelled - see "last-minute changes" for updates)</i>
17:45 - 18:30	Roundtable Food, biotechnology and biomedical (Moderators: L. Liggieri, S. Stoyanov)		
18:30 - 19:30	Management Comitee meeting		
20:00 - 23:00	Dinner		

Friday 22 March - morning - before coffee break

	Room A	Room B
	Bubbles in Humans (Chair: L. Liggieri, T. Sosnowski)	Diagnostics & Applications (Chair: K. Malysa, G. McHale)
8:30 - 8:45	Thodoris Mesimeris: Bubbles in humans: etiology, detection, symptoms – The role of Hyperbaric Medicine. (p. 80 - Mesimeris)	Norman McMillan: Quest for new detection limits in green and smart interface measurements. (p. 7 - Arthure, Barnett, Creasey, Creedon, Egan, McMillan, Murtagh, O'Neill, Pringuet, Riedel, Smith)
8:45 - 9:00	Costantino Balestra: The Phypode Project, new advances in Physiopathology of Diving. (p. 10 - Balestra, Papadopoulou, Distefano, Popov, Guerrero)	<i>Noman McMillan - continuing</i>
9:00 - 9:15	Georgi Popov: Decompression Algorithms. (p. 24 - Distefano, Popov)	Virginia Palero: Endoscopic digital holography for application in biomedical flows. (p. 5 - Arévalo, Palero, Arroyo)
9:15 - 9:30	Meng-Xing Tang: Microbubble contrast agents in ultrasound imaging and therapy. (p. 126 - Tang, Eckersley)	Maria Rosaria Vetrano: Nanoparticles characterization by a non-intrusive measurement technique. (p. 46 - Horvath, Colinet, Gouriet, Vetrano)
9:30 - 9:45	Sotiris P. Evgenidis: An electrical technique for detection of micro-bubbles in living subjects with in-vitro validation. (p. 30 - Evgenidis, Zacharias, Karapantsios, Savvas, Pavlidou, Papazoglou, Patsikas)	Jan Gradoń: Environmental and medical technologies: link between science and industry. (p. 16 - Bodasiński, Gradoń)
9:45 - 10:00	Virginie Papadopoulou : Effect of different tissue surfaces on decompression induced bubble growth from gas saturated solutions. (p. 95 - Papadopoulou , Evgenidis, Eckersley, Balestra, Tang, Karapantsios)	Herman Wijshoff : Drop on demand inkjet printing. (p. 139 - Wijshoff)
10:00 - 10:30	Plenary - strategic information (Chair: T. Gambaryan-Roisman) Petr Pracna, Jana Kratěnová: HORIZON 2020 Programme: Opportunities for research funding protection and exploitation of research results. (p. 104 - Pracna, Kratěnová)	
10:30 - 11:00	Coffee	

Friday 22 March - morning - after coffee break

11:00 - 11:45	Roundtable Nanotechnology & nanoscience (Moderators: T. Gambaryan-Roisman, C. Koukiotis)	
11:45 - 12:30	Roundtable Energy and environment (Moderators: C. van der Geld, N. Lestos)	
12:30 - 13:45	Lunch	

Friday 22 March - afternoon

13:45 - 14:15	Commercialization questionnaire Norman McMillan	Meeting of ESG (Early-stage researcher group)
14:15 - 14:45	Strategic information Jean-Francois Renault: Smart & Green interfaces meet EU policy. (p. 107)	
14:45 - 15:15	Carreer development Sanopoulos Dimitrios: EURAXESS Initiative and EURAXESS Jobs Portal. (p. 22)	
15:15 - 15:45	Gender balance issues Tatiana Gambaryan-Roisman: Gender balance and targeted activities in Germany Victoria Dutschk: Ways to embrace diversity and promote female academic leadership at the University of Twente	
15:45 - 16:45	Posters + farewell coffee	

Saturday 23 March

9:30 - 13:30	City tour
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