

Poster Program

**21st Conference of the
European Colloid and Interface Society**

ECIS 2007

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Jointly with

**1st Workshop of the COST Action D43
“Colloid and Interface Science for Nanotechnology”**

September 13, 2007

<http://costd43.unige.ch/>

International Conference Centre, Geneva, Switzerland

The organizing committee:

Michal Borkovec (chair)
Robert Gurny
Georg Papastavrou
Didier Perret

July 30, 2007

Topic 1: Pharmaceutical and biotechnological applications

Poster Session A, Tuesday, September 11, 2007, 15:20 – 17:00

Maria Nowakowska, Mariusz Kępczyński, Joanna Lewandowska, Szczepan Zapotoczny, Janne Ruokolainen, François Ganachaud, *Jagiellonian University, Kraków, Poland; Helsinki University of Technology, Espoo, Finland; CNRS/ENSCM, Montpellier, France.*
Catanionic vesicles for preparation of silicone nanocapsules (1.A.1)

Maria Nowakowska, Anna Karewicz, Joanna Łęgowik, *Jagiellonian University, Kraków, Poland.*
Novel encapsulation system for controlled delivery and release of drugs (1.A.2)

Maria Nowakowska, Kamila Rosół, Krzysztof Szczubiałka, Barbara Jachimska, Szczepan Zapotoczny, *Jagiellonian University, Kraków, Poland, Institute of Catalysis and Surface Chemistry, Kraków, Poland.*
Removal of anionic surfactants from water using smart cationic polyelectrolytes (1.A.3)

Mohamed Benamor, Nadia Aguerssif, *University of Bejaia, Algeria.*
Simultaneous determination of calcium and magnesium by derivation spectrophotometry in pharmaceutical products in micellar medium (1.A.4)

Ivana Pajic-Lijakovic, Diana Bugarski, Milenko Plavsic, Branko Bugarski, *Faculty of Technology and Metallurgy and Institute for Medical Research, Belgrade, Serbia.*
Modeling consideration of microenvironmental restricted cell growth inside the alginate-poly-L-lysine microcapsule (1.A.5)

Justyna Frelichowska, Yves Chevalier, Marie-Alexandrine Bolzinger, *University de Lyon, Villeurbanne, France.*
Pickering emulsions: Formulation and application to topical delivery (1.A.6)

Alfredo Gonzalez-Perez, Rita S. Dias, Tommy Nylander, Björn Lindman, *Lund University, Sweden.*
Association constants of cyclodextrin-surfactant complexes: Efficiency in DNA decompaction (1.A.7)

Lidija Petrović, Verica Sovilj, Jaroslav Katona, Jadranka Milanović, *University of Novi Sad, Serbia.*
Influence of core material on microcapsule characteristics (1.A.8)

Verica Sovilj, Jaroslav Katona, Lidija Petrović, Jadranka Milanović, *University of Novi Sad, Serbia.*
Influence of interaction in the system HPMC/SDS/NaCMC on the properties of oil content microcapsules (1.A.9)

Anna Akinshina, Rammile Ettelaie, Eric Dickinson, *University of Leeds, UK.*
Understanding stability of biopolymer-based emulsions: A self-consistent field theory study (1.A.10)

Hiromichi Nakahara, Anna Dudek, Sannamu Lee, Chien-Hsiang Chang, Osamu Shibata, *Kyushu University, Fukuoka University, and Nagasaki International University, Japan; National Cheng Kung University, Tainan, Taiwan.*

Interfacial behavior of amphiphilic model peptide in DPPC monolayers by IRRAS measurements (1.A.11)

Bénédicte Rullier, Bruno Novales, Monique A.V. Axelos, *INRA Centre de Recherche de Nantes, France.*

Aggregation of proteins: Role in air/water interfaces structuration and foaming properties (1.A.12)

Stefan Wellert, Henrik Imhof, Andre Steppin, Thomas Hellweg, Michael Dolle, Hans Jürgen Altmann, Andre Richardt, Alain Lapp, Bela Farago, *University of Bayreuth and Armed Forces Scientific Institute, Germany; Saclay and Institut Laue-Langevin, France.*

Sugar surfactant based microemulsions as new bio-compatible decontamination media (1.A.13)

M. Simon Saenz de Samaniego, A. F. Miller, *University of Manchester, UK.*

Interfacial studies of polymerizable peptides (1.A.14)

Valérie Ravaine, Véronique Lapeyre, *Université de Bordeaux 1, France.*

Glucose-responsive microgels with core-shell morphology (1.A.15)

E. Giménez-Martín, M. López-Andrade, A. Ontiveros-Ortega, M. Espinosa-Jiménez, *University of Jaén, Spain.*

Study of electrokinetic and thermodynamic properties of cellulose fibres covered with chlorexidine (1.A.16)

Esther Amstad, Erik Reimhult, Stefan Zurcher, James A. Hamilton, Joyce Y. Wong, Marcus Textor, *ETH Zurich, Switzerland; Boston University Medical Campus and Boston University, USA.*

Surface functionalization of single iron oxide magnetic nanoparticles (SPIONs) for targeted magnetic resonance imaging (MRI, 1.A.17)

Dietmar Schwahn, *Research Center Jülich, Germany.*

Mineralization of calcium carbonate and calcium phosphate in the presence of proteins: An exploration with small angle neutron scattering (1.A.18)

Honglei Zhang, Jean-Michel Guenet, Robin Curtis, *University of Manchester, UK; Institute Charles Sadron, Strasbourg, France.*

Effect of stereoregular polyelectrolyte on myoglobin stability (1.A.19)

Karlis Pajuste, Dainis Kaldre, Aiva Plotniece, Arkadij Sobolev, Brigita Cekavicus, Lasma Reksne, Brigita Vigante, Pavels Birjukovs, Donats Erts, Gunars Duburs, *Latvian Institute of Organic Synthesis and University of Latvia, Riga, Latvia.*

Self-assembling amphiphilic pyridinium derivatives for gene delivery: Synthesis and properties (1.A.20)

Elmar Fischer, Wolfgang Fieber, Charles Navarro, Horst Sommer, Maria Inés Velazco, Monika Schönhoff, *University of Münster, Germany; Firmenich S.A., Geneva, Switzerland.*
Fragrance partitioning and micellar swelling in a nonionic/anionic surfactant solution (1.A.21)

Paolo Lazzari, Paolo Fadda, Luca Pani, Maura Monduzzi, *Neuroscienze PharmaNess, Pula, and Università di Cagliari, Monserrato, Italy.*
Microstructural characterization of Δ^9 -Tetrahydrocannabinol non-ionic microemulsions with antinociceptive activity (1.A.22)

Paolo Fadda, Luca Pani, Maura Monduzzi, Paolo Lazzari, *Neuroscienze PharmaNess, Pula, and Università di Cagliari, Monserrato, Italy.*
SolutolHS15 based non-ionic microemulsions (1.A.23)

J. Rubio Retama, F. Tamimi Mariño, E. López-Cabarcos, *Complutense University of Madrid, Spain.*
Poly(magnesium acrylate) micro-pomegranate gels for enzyme immobilization (1.A.24)

Laura E. Valenti, Carla E. Giacomelli, *Universidad Nacional de Córdoba, Argentina.*
Surface immunoreaction to diagnose Chagas disease (1.A.25)

Matthew Davies, Maria da Graça Miguel, Carmen Morán, Hugh D. Burrows, Bjorn Lindman, Peter Douglas, *University of Wales Swansea, UK; Universidade de Coimbra, Portugal; Lund University, Sweden.*
Probing DNA condensation and compaction with fluorescent conjugated polyelectrolytes (1.A.26)

Marie-Edith Meyre, Olivier Lambert, Etienne Duguet, Stéphane Mornet, Chrystel Faure, *University of Sciences and Technology of Bordeaux, France.*
Magnetic onion-type multilamellar vesicles for MRI (1.A.27)

Vlasoula Bekiari, Maria Sotiropoulou, Panagiotis Lianos, *University of Patras, Greece.*
Use of hydrogels to retain toxic substances from water (1.A.28)

Duško Čakara, Angelina Roudot, Patrick Perrin, *University of Zagreb, Croatia; ESPCI, Paris, France.*
Charging behavior of pH-sensitive nano-scale drug carriers: Dendrimers, polyelectrolyte/particle composites and diblock-copolymer “frozen” micelles (1.A.29)

Jérémie Néstor, Marc Obiols-Rabasa, Jordi Esquena, Conxita Solans, Bart Leveck, Karl Booten, Tharwat F. Tadros, Paul F. Luckham, Michael Musoke, *Institut d'Investigacions Químiques i Ambientals de Barcelona, Spain; ORAFI Bio Based Chemicals, Tienen, Belgium; Imperial College of Science, Technology and Medicine, London, UK.*
Stabilization of colloidal dispersions using an inulin (polyfructose) based surfactant (1.A.30)

Miroslav Variny, Anna Jawor-Baczynska, Barry D. Moore, Jan Sefcik, *Slovak Technical University, Bratislava, Slovakia; University of Strathclyde, Glasgow, UK.*
Non-equilibrium formation processes of nanostructured pharmaceutical delivery systems (1.A.31)

Peter Grancic, Carl J. Schaschke, Jan Sefcik, *University of Strathclyde, Glasgow, UK*.
Understanding non-integer order kinetics of protein denaturation (1.A.32)

Man Wu, Edith Dellacherie, Emmanuelle Marie, *ENSIC, Nancy, France*.
Kinetics of miniemulsion polymerization of butyl cyanoacrylate (1.A.33)

Man Wu, Edith Dellacherie, Emmanuelle Marie, *ENSIC, Nancy, France*.
Polysaccharide-covered poly(alkylcyanoacrylate) nanoparticles via miniemulsion polymerization (1.A.34)

Emmanuelle Marie, Edith Dellacherie, Alain Durand, *ENSIC, Nancy, France*.
Amphiphilic dextrans as stabilizers of the styrene miniemulsion polymerization (1.A.35)

B. Jachimaska, Z. Adamczyk, M. Wasilewska, K. Szatkowska, G. Para, Polish Academy of Sciences, Cracow, Poland.
Bulk and wetting characteristics of globular proteins (1.A.36)

Peter Walde, Zengwei Guo, *ETH Zürich, Switzerland*.
Enzyme-catalyzed reactions in vesicle systems (1.A.37)

Madalina L. G. Ilis, Suzana Jus, Georg M. Gübitz, Bojana Vončina, Vanja Kokol, *University of Maribor, Slovenia; Graz University of Technology, Austria*.
Enzyme catalysed grafting of chitosan/poly(N-isopropylacrylamide) microgels onto the protein fibres (1.A.38)

Fernanda Sousa, Gleb Sukhorukov, Oliver Kreft, Helmut Möhwald, Vanja Kokol, *University of Maribor, Slovenia; University of London, UK; Max Planck Institute of Colloids and Interfaces, Potsdam, Germany*.
Multi-layered collagen/hyaluronic acid capsules: Preparation and response properties (1.A.39)

Ester Falletta, Massimo Bonini, E. Fratini, A. Lo Nostro, P. Lo Nostro, P. Baglioni, University of Florence, Italy.
Poly(acrylate) coated silver nanoparticles for antibacterial textile finishing (1.A.40)

Monica Mosca, Andrea Ceglie, Luigi Ambrosone, *Università del Molise, Campobasso, Italy*.
Effect of ascorbic acid dispersion on the oxidation of biocompatible W/O emulsions (1.A.41)

Filippo Mulinacci, Martinus A.H. Capelle, Robert Gurny, Tudor Arvinte, *University of Geneva and University of Lausanne, Switzerland*.
Characterization of protein-aluminum vaccines (1.A.42)

Rodrigo O. Brito, Eduardo F. Marques, Paula Gomes, Maria João Araújo, Olle Söderman, Jean-Paul Douliez, Maria Rosa Infante, Maria Teresa Garcia, Isabel Ribosa, Pilar Vinardell, Montserrat Mitjans, *University of Porto, Portugal; Lund University, Sweden; Institut National de Recherches Agronomiques, Nantes, France; Instituto de Investigaciones Químicas y Ambientales de Barcelona, Universitat de Barcelona, and Unidade Asociada-CSIC, Spain*.
From nanotubes to spontaneous vesicles in a lysine-based surfactant: Phase behavior, microstructure and toxicity studies (1.A.43)

Ahlem Noomen, Souhaira Hbaieb, H  l  ne Parrot-Lopez, Rafik Kalfat, Hatem Fessi, Nouredine Amdouni, Yves Chevalier, *CNRS - Universit   Claude Bernard Lyon 1, France; Facult   des Sciences de Tunis, Tunisia.*

Emulsions of β -cyclodextrins grafted to silicone for the transport of antifungal drugs (1.A.44)

Faouzi Nsib, Naceur Ayed, Yves Chevalier, *Institut National des Sciences Appliqu  es et de la Technologie, Tunisia; CNRS - Universit   Claude Bernard Lyon 1, France.*

Comparative study of the dispersion of three oxide pigments with sodium polymethacrylate dispersants in alkaline medium (1.A.45)

Nicolas Dorsaz, Giuseppe Foffi, Anna Stradner, George Thurston, Peter Schurtenberger, *EPFL and University of Fribourg, Switzerland; Rochester Institute of Technology, USA.*

Thermodynamic stability in binary mixtures of eye lens proteins (1.A.46)

Martin Lundqvist, Tommy Cedervall, Tord Bergg  rd, Sara Linse, Iseult Lynch, Kenneth Dawson, *University College Dublin, Ireland; Lund University, Sweden.*

Nanoparticle-aided purification of apolipoprotein A-1 from human plasma (1.A.47)

Martin Lundqvist, Tommy Cedervall, Iseult Lynch, Erik Hellstrand, Sara Linse, Kenneth A. Dawson, *University College Dublin, Ireland; Lund University, Sweden.*

Characterization of the biomolecule corona on nanoparticles (1.A.48)

Celia Cabaleiro-Lago, Sara Linse, Fiona Quinlan-Pluck, Wei-Feng Xue, Iseult Lynch, Stina Lindman, Eva Thulin, Sheena E. Radford, Kenneth Dawson, *University College Dublin, Ireland; Lund University, Lund, Sweden; University of Leeds, Leeds, UK.*

Nanoparticles as modulators of protein fibrillation (1.A.49)

Aristotelis Xenakis, Vassiliki Papadimitriou, Stavroula Syrou, Theodore G. Sotiroudis, *The National Hellenic Research, Athens, Greece.*

Biocompatible microemulsions with olive oil: Formulation, structure and applications (1.A.50)

Mariano Rodr  guez Bores Ram  rez, Abraham Faustino Vega, Mar  a Josefa Bernad, Luis Medina Torres, Rafael Herrera N  jera, *Universidad Nacional Aut  noma de M  xico, M  xico.*

Synthesis and rheological characterization of molten poly(DL-lactide) (1.A.51)

Luis Medina-Torres, Rafael Herrera N  jera, Abraham Faustino Vega, Jose-Alberto Gallegos-Infante, Nuria-Elizabeth Rocha-Guzman, *Universidad Nacional Aut  noma de M  xico, M  xico and Instituto Tecnol  gico de Durango, M  xico.*

Rheological stability of alcoholic emulsions in function of temperature, storage time on different batches and ratio of caseinates (1.A.52)

A. Faustino Vega, Ma. Josefa Bernad, L. Medina Torres, R. Herrera Najera, *Universidad Nacional Aut  noma de M  xico, M  xico.*

Rheological characterization of polymeric poly (DL-lactide-co-glycolic acid) nanoparticles for controlled release of closantel in pharmaceutical applications (1.A.53)

Olga Santos, Jelena Kosoric, Mark Prichard Hector, Paul Anderson, Liselott Lindh, *Malmö University, Sweden, University of London, UK.*

Adsorption behaviour of statherin and a statherin peptide onto hydroxyapatite and silica surfaces studied by in situ ellipsometry (1.A.54)

Corinne Eenschooten, Andrea Vaccaro, Florence Delie, Fanny Guillaumie-Longin, Georgios Kontogeorgis, Khadija Schwach-Abdellaoui, Robert Gurny, Michal Borkovec, *Novozymes Biopolymer, Bagsvaerd, Denmark; University of Geneva and University of Lausanne, Switzerland; Technical University of Denmark, Lyngby, Denmark.*

Development of novel colloidal carriers from chemically modified hyaluronic acid (1.A.55)

Magali Zeisser-Labouèbe, Norbert Lange, Robert Gurny, Florence Delie, *University of Geneva and University of Lausanne, Switzerland.*

Influence of drug loading on photodynamic activity of hypericin-loaded biodegradable nanoparticles (1.A.56)

A. Cirstoiu Hapca, L. Bossy, F. Buchegger, R. Gurny, F. Delie, *University of Geneva, University of Lausanne and University Hospital of Geneva, Switzerland.*

Tumor targeting using colloidal nanoparticles: Physico-chemical characterization and in vitro activity (1.A.57)

Jørgen Jansson, Flemming Madsen, Peter Ifversen, Henriette Baun Madsen, Hanne Mørck Nielsen, Søren Manniche, Nikolai Kirkby, *Coloplast, Humlebæk, Copenhagen University, Denmark, Nordic Vaccine, Rigshospitalet, Copenhagen, Denmark.*

Physio-chemical characterization of a cationic Immuno Stimulating COMplex (ISCOM): A cage-like particle (1.A.58)

Xiomara Gutiérrez, Raúl Aponte, Raúl Saud, Edward Martínez, Migdalia Carrasquero, *PDVSA-Intevep. and Universidad Central de Venezuela, Caracas, Venezuela.*

Use of the natural surfactants presents in the crude resin of the Venezuelan Caribbean Pine of to formulate and to stabilize emulsions of heavy crude oil in water (1.A.59)

Ivana Finelli, Ester Chiessi, Devis Galesso, Davide Renier, Gaio Paradossi, *Università di Roma Tor Vergata and Fidia, Padova, Italy.*

Gel-like structural and dynamic behaviour of HYADD4: A derivative of hyaluronic acid (1.A.60)

Steffi Grohmann, Marion Frant, Karin Dölling, Ullrich Rothe, Klaus Liefelth, *Institute for Bioprocessing and Analytical Measurement Techniques, Heilbad Heiligenstadt and University of Halle, Germany.*

Advantages and applications of archaean tetraether lipids (1.A.61)

Paola Luciani, Martina Fortini, Debora Berti, Lorenzo Di Cesare Mannelli, Dina Manetti, Carla Gherardini, Fulvio Gualtieri, Alessandro Bartolini, Piero Baglioni, *University of Florence, Italy.*

Direct modulation of Gi protein in a receptor-independent manner: Role of liposomes as membrane models and drug delivery systems (1.A.62)

Robin Curtis, Honglei Zhang, *University of Manchester, UK.*

Effect of polyion stereochemistry on protein-polyion interactions (1.A.63)

Thatyane Morimoto Nobre, André Stoppa dos Santos, Rosa P.M. Furriel, Maria Elisabete D. Zaniquelli, *Universidade de São Paulo, Brazil*.

Sucrose concentration effects on phospholipid Langmuir and Langmuir-Blodgett films
(1.A.64)

Nabel Abdelmoneem Negm, Amouna Salem Mohamed, *Egyptian Petroleum Research Institute, Cairo, Egypt*.

Synthesis, characterization and biological activity of sugar-based gemini amphiphiles
(1.A.65)

Vincent Plassat, Marie Sophie Martina, Gillian Barratt, Veronique Marsaud, Christine Ménager, Jack Michel Renoir, Sylviane Lesieur, *Universities Paris-Sud and Paris 6, France*.

Sterically stabilized superparamagnetic liposomes for MR imaging and cancer therapy: pharmacokinetics, biodistribution and in-vitro activity on MCF-7 cell line (1.A.66)

Eva Max, Andreas Fery, Frank Bartels, *University of Bayreuth and, BASF, Ludwigshafen, Germany*.

Haptics on human hair: From automated touches to single hair interaction measurements
(1.A.67)

Topic 2: Applications of colloidal particles and soft materials

Poster Session A, Tuesday, September 11, 2007, 15:20 – 17:00

Bryan Lee, Victor Starov, *Loughborough University, UK.*

Spreading of surfactant solutions over thin aqueous layers: Influence of solubility and micelles disintegration (2.A.1)

Bryan Lee, Victor Starov, Ramon Rubio, *Loughborough University, UK; Univ Complutense, Madrid, Spain.*

Aqueous trisiloxane solutions (2.A.2)

Nina Kovalchuk, Victor Starov, Paul Langston, Nidal Hilal, *Loughborough University and University of Nottingham, UK.*

Cluster formation in colloidal suspensions: Computer simulations (2.A.3)

Gemma De las Cuevas, Jordi Faraudo, Juan Camacho, *Universitat Autònoma de Barcelona and MATGAS Research Center, Bellaterra, Spain.*

Enhanced magnetophoresis of superparamagnetic particles through field-induced reversible aggregation (2.A.4)

Christian Mayer, Alina Leson, *University of Duisburg-Essen, Germany.*

Molecular exchange through capsule and vesicle membranes observed by field gradient NMR (2.A.5)

Linda Sellou, Roy Hughes, Paul Reynolds, Simon Stebbing, *University of Bristol and Ineos Ltd, UK.*

Surface abrasion by silica particles and model toothpaste formulations (2.A.6)

Jakob Münster, Martin Knoll, Ian D. Potter, Robert W. Cattrall, Spas D. Kolev, Jilska M. Perera, *The University of Melbourne and La Trobe University, Australia; Technische Universität München, Germany.*

The synthesis of PVC microspheres for metal ion extraction (2.A.7)

A. Delos, Th. Schäfer, J. Carrera, J. Guimerá, C. Walther, X. Sanchez-Vila, H. Geckeis, *Enviros Spain, Valldoreix, and Universitat Politècnica de Catalunya, Barcelona, Spain; Forschungszentrum Karlsruhe, Germany.*

Actinide sorption on montmorillonite colloids and medium surfaces in a 3-phases system (2.A.8)

Joël Manuvelpillai, David Moreton, Brian Vincent, *University of Bristol and Lubrizol Corporation, UK.*

Adsorption of aromatics with diesel engine derived soot (2.A.9)

Paul Davies, Brian Vincent, Adam Feiler, *University of Bristol, UK; Uppsala University, Sweden.*

The uptake of gold nanoparticles into poly(2-vinylpyridine) microgels (2.A.10)

Alina Leson, Volkan Filiz, Stephan Förster, Christian Mayer, *University Duisburg-Essen and University Hamburg, Germany.*

Molecular exchange through vesicle membranes: Determination of the activation energy (2.A.11)

Sándalo Roldán-Vargas, Alberto Martín-Molina, Manuel Quesada-Pérez, Ramon Barnadas-Rodríguez, Joan Esterlich, José Callejas-Fernández, *University of Granada Campus de Fuentenueva, Spain; Universidad de Jaén, Spain; Universitat de Barcelona, Spain.*

Kinetics and geometrical aspects of the aggregation of liposomes induced by calcium (2.A.12)

Fernando Martínez-Pedrero, Abdeslam El Harrak, María Tirado-Miranda, Jean Boudry, Artur Schmitt, Jerome Bibette, José Callejas-Fernández, *University of Granada Campus de Fuentenueva, Spain; ESPCI, Paris, France.*

Modelling the aggregation kinetics of magnetic particle dispersions (2.A.13)

Ana B. Jódar-Reyes, Frans A.M. Leermakers, *University of Extremadura, Cáceres, Spain; Wageningen University, The Netherlands.*

Colloidal stability in the presence of surfactant linear micelles (2.A.14)

Ana B. Jódar-Reyes, Antonio Méndez-Vilas, Jesús Díaz, M Luisa González-Martín, *University of Extremadura, Cáceres, Spain.*

A nanoscopic vision of aggregation phenomena at the three-phase contact line of air-drying water droplets (2.A.15)

Marie-Hélène Noel, Hélène Burger, Laurent Guillot, Pascal Hébraud, Henri Van Damme, *Italcementi Group, Guerville, IPCMS / GMO laboratory, Strasbourg, and 3ESPCI / PPMD, Paris, France.*

Thermo-thickening properties of polymer-cement and polymer-silica pastes (2.A.16)

Alla Synytska, Rina Khanum, Leonid Ionov, Manfred Stamm, Chokri Cherif, Cornelia Bellmann, *Leibniz Institute of Polymer Research, Max-Planck-Institute of Molecular Cell Biology and Genetics, and Textile and Clothing Technology, Dresden, Germany.*

Asymmetrically modified silica particles: Preparation, surface properties and application in design of functional coatings (2.A.17)

Alla Synytska, Leonid Ionov, Victoria Dutschk, K. Grundke, M. Stamm, *Leibniz Institute of Polymer Research and Max-Planck-Institute of Molecular Cell Biology and Genetics, Dresden, Germany.*

Tuning wettability on regularly and irregularly structured surfaces from core-shell particles: Theory and experiment (2.A.18)

Karla Webb, Jordan Petkov, Peter Garrett, *Unilever Research and Development and University of Manchester, UK.*

Effect of the interaction between oppositely charged polymers and surfactants on the deposition of solid particles to surfaces (2.A.19)

Rosana Rojas, Victoria Dutschk, Werner Stöckelhuber, Simona Schwarz, Gert Heinrich, *Leibniz Institute of Polymer Research Dresden, Germany.*

O/W suspo-emulsions containing technical surfactants as models of industrial oily wastewater (2.A.20)

Walter Richtering, Bastian Brugger, *Physical Chemistry, RWTH Aachen University, Aachen, Germany.*

Stimuli-sensitive emulsions (2.A.21)

Toni Ivas, Nicholas A. Grundy, Sasa Zeljkovic, Ludwig J. Gauckler, *ETH Zürich, Switzerland ; Ecole Polytechnique de Montréal, Canada.*

Calculation of nano-phase diagrams with CALPHAD approach (2.A.22)

Laurence Leclercq, Sébastien Giroux, Bernard Henry, Patrice Rubini, *UHP - Nancy Université, France.*

Mixed micelles as an extracting phase to remove metal ions from aqueous environment: A green alternative to liquid-liquid extraction (2.A.23)

Peter Košovan, Jitka Havránková, Zuzana Limpouchová, Karel Procházka, *Charles University, Prague, Czech Republic.*

Conformational behaviour of comb-like copolymers in selective solvent: Computer simulation study (2.A.24)

Peter Košovan, Filip Uhlík, Jitka Havránková, Jana Humpolíčková, *Charles University and Czech Academy of Sciences, Prague, Czech Republic.*

MC simulations of fluorescence correlation spectroscopy (2.A.25)

Marjan Bele, Aljaž Godec, Uroš Maver, Odon Planinšek, Stane Srčič, Miran Gaberšček, Janko Jamnik, *National Institute of Chemistry Slovenia and University of Ljubljana, Slovenia.* Stabilization of amorphous nifedipine and the controlled release from a nanoporous solid matrix (2.A.26)

Marjan Bele, Robert Dominko, Miran Gaberšček, Janko Jamnik, *National Institute of Chemistry, Ljubljana, Slovenia.*

Carbon coatings and wiring in selected electronic components (2.A.27)

Seyda Bucak, I. Fahir Borak, Hojin An, Cem Altan, *Yeditepe University, Istanbul, Turkey.* Enhancement of thermal conductivity using nanofluids (2.A.28)

Francesca Ridi, Paola Luciani, Emiliano Fratini, Piero Baglioni, *University of Florence, Italy.* Hydration water and microstructure in calcium silicate hydrates (2.A.29)

G. Bufalo, F. Lopez, F. Venditti, L. Ambrosone, *IISPEL, Napoli, and University of Molise, Campobasso, Italy.*

Kinetics of chromate removal from water by a novel CTAB-silica-gelatin composite (2.A.30)

Su-Hsia Lin, Juin-Yih Lai, *Nanya Institute of Technology and Research and Development Center for Membrane Technology, Chung-Li, Taiwan.*

Adsorption of surfactants from water onto raw and HCl-clay in fixed beds (2.A.31)

L. Labajos-Broncano, I. Estrada-Cabezas, J. A. Antequera-Barroso, M. L. González-Martín, J. M. Bruque, *University of Extremadura, Badajoz, Spain.*

An experimental study about the effect of the velocity on the contact angle in experiments of spontaneous flow of liquids in porous media (2.A.32)

L. Labajos-Broncano, M. L. González-Martín, J. A Antequera-Barroso, J. M. Bruque,
University of Extremadura, Badajoz, Spain.

An experimental study about the effect of the interfacial adsorption on the imbibition of aqueous surfactant solutions in hydrophilic porous media (2.A.33)

Harald Wutzel, Wolfgang Samhaber, *Johannes Kepler University, Linz, Austria.*

Polymer nanoparticle layers as a separation media: Rejection of macromolecules (2.A.34)

Alfredo Cervantes-Martínez, Bernard Binks, Dominique Langevin, *Université Paris-Sud, France; University of Hull, UK.*

Study of coarsening on aqueous foams stabilized by silica nanoparticles (2.A.35)

Xin-peng Geng, Zu-meng Lei, Li Dai, Huan Gao, Xin-du Geng, *Xi'an Polytechnic University, and Northwest University, Xi'an, China.*

Effect of denaturant concentrations and coverage on displacement adsorption enthalpies of RNase A adsorption onto a moderately hydrophobic surface (2.A.36)

Xin-peng Geng, Li Dai, Xiao-yan Feng, Yong-fei Jia, Ai-ling Liu, *Xi'an Polytechnic University, China.*

Adsorption and thermal stability study of adsorbed α -amylase on a hydrophobic surface (2.A.37)

Ai-ling Liu, Xin-peng Geng, Xi-jing Xie, Lei Wang, Li Dai, *Xi'an Polytechnic University, China.*

Adsorption and thermal stability study of adsorbed denatured lysozyme on a moderately hydrophobic surface (2.A.38)

Li Dai, Xin-peng Geng, Dan Wu, Zu-meng Lei, Xiao-yan Feng, Xin-du Geng, *Xi'an Polytechnic University and Institute of Modern Separation Science, Xi'an, China.*

Thermodynamics of the retention for α -amylase in hydrophobic interaction chromatography (2.A.39)

Zu-meng Lei, Xin-peng Geng, Huan Gao, Ying-wei Qiu, Ai-ling Liu, *Xi'an Polytechnic University, China.*

Differential scanning calorimetry and FTIR analysis on RNase A adsorbed at a moderately hydrophobic surface (2.A.40)

Joint ECIS/COST Poster Session B, Thursday, September 13, 2007, 15:20 – 17:00

Yan Zhang, David I. Gittins, David Skuse, Terence Cosgrove, Jeroen S. van Duijneveldt,
University of Bristol and IMERYS Minerals Ltd., St. Austell, UK.

Non-aqueous suspensions of surface modified kaolin (2.B.1)

K. Szczepanowicz, D. Dronka-Góra, G. Para, A. M. Bouzga, C. Simon, P. Warszyński,
Polish Academy of Science, Cracow, Poland; SINTEF Materials and Chemistry, Oslo, Norway.

Emulsions containing silica sources as cores for microencapsulation (2.B.2)

Karnail B. Singh, Mahesh S. Tirumkudulu, *Indian Institute of Technology Bombay, India.*
Cracking during drying of aqueous colloidal dispersions (2.B.3)

Stefan Werner, Ulrike Steinhäuser, Gudrun Petzold, Klaus-Werner Stöckelhuber, Victoria Dutschk, *Leibniz Institute of Polymer Research Dresden and University of Applied Sciences Berlin, Germany.*

Comparison of different methods in analysing wetting properties of nanoparticles (2.B.4)

Gunilla Carlsson, Pekka Salminen, Etienne Lazarus, Jan van Stam, *Karlstad University, Sweden; Dow Europe, Horgen, Switzerland; Dow Deutschland, Rheinmünster, Germany.*
Film formation of latex studied with fluorescence microscopy (2.B.5)

Ingo Wirth, Robert Kun, Torben Seemann, Volker Zöllmer, Marcus Maiwald, Matthias Müller, Dirk Godlinski, Bernd Günther, Matthias Busse, Imre Dékány, *Fraunhofer Institute for Manufacturing and Advanced Materials, Bremen, Germany; University of Szeged, Hungary.*

INKtelligent printing of colloidal dispersions (2.B.6)

Krishna Kowgi, Ger Koper, *Delft University of Technology, The Netherlands.*
Degassed water as a cleaning agent (2.B.7)

Alexandre Gurgel, David C. Steytler, *Federal University of Viçosa, Brazil; University of East Anglia, Norwich, UK.*

Solubility and fractionation of hydrocarbon surfactants in CO₂: A near-infrared study (2.B.8)

Rudra Prosad Choudhury, Petrik Galvosas, Monika Schönhoff, *University of Münster, International NRW Graduate School of Chemistry, Münster, and University of Leipzig, Germany.*

Molecular weight dependence of polyethylene oxide permeation through the walls of hollow polyelectrolyte capsules (2.B.9)

Ksenija Kogej, Boštjan Jerman, *University of Ljubljana, Slovenia.*

Hydrophobic poly(carboxylic acids): Solution behaviour and interaction with surfactants (2.B.10)

Boštjan Jerman, Ksenija Kogej, *University of Ljubljana, Slovenia.*

A calorimetric and potentiometric study of two stereoisomers of poly(methacrylic acid) in aqueous solution (2.B.11)

Eva Maurer, Matthias Kellermeier, Regina Klein, Stefan Thomaier, Oliver Zech, Werner Kunz, *University of Regensburg, Germany.*

Simple ionic liquid ion pair amphiphiles (LIPA): A new class of surfactants (2.B.12)

Fabiane Oliveira, José A. Lopes da Silva, Ana Barros-Timmons, *University of Aveiro, Portugal.*

Preparation and characterization of chitosan/SiO₂ nanocomposite films (2.B.13)

Robert Orr, *Norsk Hydro ASA, Porsgrunn, Norway*.
Determination of the interfacial properties of a crude oil-water-gas system at elevated pressures and temperatures (2.B.14)

Lilianna Szyk-Warszyńska, Anna Trybała, Piotr Warszyński, *Polish Academy of Sciences, Krakow, Poland*.
Deposition of model microcapsules at solid surfaces (2.B.15)

Anna Trybała, Lilianna Szyk-Warszyńska, Piotr Warszyński, *Polish Academy of Sciences, Krakow, Poland*.
Permeability of polyelectrolyte shells for fluorescein containing microcapsules suspended in solution and attached to a surface (2.B.16)

Juha Lindfors, Per Stenius, Janne Laine, *Helsinki University of Technology, Espoo, Finland*.
Adhesion of reactive sizing agents: Model surface preparation and adhesion measurements (2.B.17)

Edvaldo Sabadini, Marcelo Alves da Silva, Vanessa Cristina Bizotto, Roberta Kamei Rodrigues, Kelly Roberta Francisco, *State University of Campinas, Brazil*.
Hydrodynamic drag reduction in polymers and worm-like micelles solutions (2.B.18)

María Jesús Ariza, *University of Almería, Spain*.
Influence of pH on the ionic transport through a polymeric membrane containing responsive particles (2.B.19)

Paul Van der Meeren, Pieter Saveyn, Mieke De Schampheleire, Pieter Spanoghe, *Ghent University, Belgium*.
Interrelationship between nebulisation spray performance and surface activity of aqueous solutions of secondary alcohol ethoxylates (2.B.20)

Isabelle Pochard, Christophe Labbez, André Nonat, Cédric Plassard, Eric Lesniewska, Bo Jönsson, *CNRS - Université de Bourgogne, Dijon, France, University of Lund, Sweden*.
Surface force investigations in cement paste by atomic force microscopy and Monte Carlo simulations (2.B.21)

Isabelle Pochard, Christophe Labbez, André Nonat, *CNRS - Université de Bourgogne, Dijon, France*.
Interfacial solid/liquid characterisation of calcium silicate hydrate nanoparticles (2.B.22)

D. Capriles-González, B. Sierra-Martín, A. Fernández-Barbero, *University of Almería, Spain*.
Coupled de-swelling and permeability of multiresponsive microgels (2.B.23)

Barbara Jachimska, Zbigniew Adamczyk, Piotr Warszyński, *Polish Academy of Sciences, Cracow, Poland*.
Characterization of anisotropic molecules: Polyelectrolytes and proteins (2.B.24)

Barbara Jachimska, Jan Połtowicz, Katarzyna Pamin, Zbigniew Adamczyk, *Polish Academy of Sciences, Cracow, Poland*.
Interaction of metal complexes with polymers (polyelectrolytes, PAMAM dendrimers) in aqueous solution (2.B.25)

Kasper Baert, Branko Kolaric, Renaud A. L. Vallée, Mark Van der Auweraer, Koen Clays, *Katholieke Universiteit Leuven, Leuven, Belgium.*

Controlling the fluorescence resonant energy transfer by photonic crystal band gap engineering (2.B.26)

Subir Bhattacharjee, Shahnawaz Molla, *University of Alberta, Canada.*

Dielectrophoretic levitation of colloids in presence of shear flow: Applications in fouling prevention in flow systems (2.B.27)

Susanna Holappa, Leena Nurmi, Arto Salminen, Jukka Seppälä, Janne Laine, *Helsinki University of Technology, Finland.*

Interaction mechanisms of amphiphilic block copolymers and surfaces: Influence of the substrate and the block copolymer composition (2.B.28)

Aurelian C. Galca, Mihaela Baibarac, Ion Baltog, *National Institute of Materials Physics, Magurele, Romania.*

Optical properties of ZnO nanoparticles/SWCN composites: Preparation and characterization (2.B.29)

Aurelian C. Galca, Victor Kuncser, Vali Teodorescu, *National Institute of Materials Physics, Magurele, Romania.*

Deposition of magnetite ferrofluids monolayer onto different substrates (2.B.30)

Nikolay C. Christov, K. D. Danov, P. A. Kralchevsky, K. P. Ananthapadmanabhan, A. Lips, *University of Sofia, Bulgaria; Unilever Research and Development, Connecticut, USA.*

The maximum bubble pressure method: Universal surface age and transport mechanisms in surfactant solutions (2.B.31)

Nikolay C. Christov, Krassimir D. Danov, Peter A. Kralchevsky, *University of Sofia, Bulgaria.*

On the mechanism of drop formation in membrane and micro-channel emulsification (2.B.32)

D. J. F. Taylor, S. J. Clarke, R. K. Thomas, *University of Oxford, UK.*

Intercalation of cationic polyelectrolytes into swollen vermiculites (2.B.33)

Ying Zhu, Sébastien Queste, Morgan Durand, Valérie Molinier, Jean-Marie Aubry, *Ecole Nationale Supérieure de Chimie de Lille, France.*

New amphiphiles derived from sorbitol: The short-chain monoalkyl ethers of isosorbide as “green” hydrotropes (2.B.34)

Daniel Harries, George Khelashvili, Harel Weinstein, *The Hebrew University, Jerusalem, Israel, Weill Medical College of Cornell University, New York, USA.*

Macromolecule adsorption on charged bilayers: A dynamic mean-field model that describes time evolution, restructuring, and reorganization (2.B.35)

Imre Varga, Istvan Szalai, Juan José Valle-Delgado, Per Claesson, *Royal Institute of Technology, Sweden, Loránd Eötvös University, Budapest, Hungary.*

Pulsating responsive nanogels (2.B.36)

Imre Varga, Róbert Mészáros, Tibor Gilányi, Ricardas Makuska, Per Claesson, *Royal Institute of Technology, Sweden; Loránd Eötvös University, Budapest, Hungary; Vilnius University, Lithuania.*

Effect of graft density on the surfactant binding to non-ionic comb polymers (2.B.37)

A. Xenakis, T. Karandreas, E. Merianou, M. Zoumpantioti, H. Stamatis, *The National Hellenic Research Foundation Athens and University of Ioannina, Greece.*

Surfactantless microemulsions and relative organogels as matrices for phenolic acids esterification (2.B.38)

E. Tervoort, U. T. Gonzenbach, I. Akartuna, A. R. Studart, L. J. Gauckler, *ETH Zürich, Switzerland.*

Production of porous ceramics from particle-stabilized foams and emulsions (2.B.39)

Rémi Longtin, Christian Fauteux, Louis-Philippe Carignan, Daniel Therriault, Joseph Pegna, *École Polytechnique de Montréal, Canada.*

Recent advances in laser assisted surface-bound growth of carbon nanofibers: From vertical nanofiber arrays to thin films and nanocomposite coatings (2.B.40)

Pierre Bauduin, Fabienne Testard, Laurence Berthon, Thomas Zemb, *CEA-Saclay and CEA-ValRhô, France.*

Liquid/liquid extraction systems for the reprocessing of spent nuclear fuel wastes: Supra-molecular approach of the organic phase (2.B.41)

Ingo Dönch, Marc Nolte, Patrick Ott, André Laschewsky, Andreas Fery, *Max Planck Institute of Colloids and Interfaces and Fraunhofer Institute for Applied Polymer Research, Potsdam, Germany; University of Bayreuth, Germany.*

Freestanding polymeric membranes as mechanical sensors (2.B.42)

Giuseppe Colafemmina, Daniela Fiorentino, Andrea Ceglie, Emiliano Carretti, Emiliano Fratini, Luigi Dei, Gerardo Palazzo, *Università di Bari and Consorzio Universitario per lo sviluppo dei Sistemi a Grande Interfase, Firenze, Italy.*

Structure of nanostructured fluids based on propylene carbonate/water mixture used in conservation of cultural heritage (2.B.43)

Ana M. Díez-Pascual, John E. Wong, André Laschewsky, Walter Richtering, *Aachen University and University of Potsdam, Germany.*

Influence of ionic strength and molecular weight on the layer-by-layer assembly of polyelectrolyte multilayers on thermoresponsive P(NiPAM-co-MAA) microgel (2.B.44)

J. E. Wong, A. K. Gaharwar, D. Müller-Schulte, D. Bahadur, W. Richtering, *Aachen University and ContraIDS, Aachen, Germany; Indian Institute of Technology Bombay, Mumbai, India.*

Dual-stimuli responsive hybrid core-shell system achieved via layer-by-layer assembly of polyelectrolytes and magnetic nanoparticles on a thermoresponsive microgel (2.B.45)

Ramon Pericet-Camara, Sebastian Nett, Andreas Best, Jochen Gutmann, Elmar Bonaccorso, *Max Planck Institute for Polymer Research and University of Mainz, Mainz, Germany.*

Microstructuring polymer surfaces by solvent droplets applied to fabricate microlens arrays (2.B.46)

Yuming Xu, Tadeusz Dabros, *CANMET Energy Technology Centre, Devon, Canada.*
Stability of water-in-oil emulsion: Effect of asphaltenes (2.B.47)

Grégory Beaune, Benoit Dubertret, Olivier Clément, Catherine Vayssettes, Valérie Cabuil,
Christine Ménager, *UPMC, ESPCI, and Université Paris 5, Paris, France.*
Encapsulation of hydrophilic magnetic nanoparticles and hydrophobic quantum dots in giant
vesicles (2.B.48)

Valérie Cabuil, Vincent Rocher, Audrey Ngomsik, Jean-Michel Siaugue, Gérard Cote,
Vincent Dupuis, Sébastien Abramson, Agnès Bée, *Université Pierre et Marie Curie, CNRS*
UMR, Ecole nationale supérieure de chimie, Paris, France.
Cleanup of effluents by magnetic separation (2.B.49)

Topic 3: Synthesis, interaction, and organization of colloidal particles

Poster Session A, Tuesday, September 11, 2007, 15:20 – 17:00

Sašo Gyergyek, Miroslav Huskić, Darko Makovec, Mihael Drofenik, *Jozef Stefan Institute and National Institute of Chemistry, Ljubljana, Slovenia; University of Maribor, Maribor, Slovenia.*

Superparamagnetic nanocomposites of magnetic nanoparticles dispersed in polymethyl methacrylate matrix synthesized by in situ polymerization (3.A.1)

Pola Goldberg, Oren Regev, *Ben-Gurion University of the Negev, Israel.*

Exploring nanotube dispersion mechanism with gold-labeled proteins via cryo-TEM imaging (3.A.2)

Lia Verhoeff, Henk N.W. Lekkerkerker, *Utrecht University, The Netherlands.*

Triphasic equilibrium of charged colloidal platelets (3.A.3)

Esther van den Pol, Andrei Petukhov, Dominique Thies-Weesie, Gert Jan Vroege, *Utrecht University, The Netherlands.*

Cr modified goethite liquid crystalline phases influenced by an external magnetic field (3.A.4)

Patrick Huber, Thomas Geue, Thomas Blättler, Marcus Textor, Ullrich Pietsch, *ETH Zurich and PSI, Villigen, Switzerland; University of Siegen, Germany.*

Template-directed formation of ordered colloidal assemblies (3.A.5)

Nina Lorenz, J. Liu, P. Wette, T. Palberg, *University of Mainz and Institut für Raumsimulation, Cologne, Germany.*

Phase behaviour and properties of a model binary charged sphere system (3.A.6)

Kyongok Kang, A. Wilk, A. Patkowski, Jan K. G. Dhont, *Forschungszentrum Juelich, Germany; A. Mickiewicz University, Poznan, Poland.*

Protein diffusion in isotropic and nematic colloidal rod networks: Electrostatic interactions and hydrodynamic screening (3.A.7)

Vitaliy Starchenko, Martin Müller, Nikolai Lebovka, *Leibniz-Institut für Polymer Forschung, Dresden, Germany; 2Ovcharenko-Institute of Biocolloidal Chemistry, Kiev, Ukraine.*

Regulation of polyelectrolyte complex nanoparticle growth processes: Experimental and simulation study (3.A.8)

Gayle E. Morris, Marlene J. Cran, Leanne G. Brichter, *Victoria University and University of South Australia, Australia.*

Mineral oxide adsorption: Influence of dispersant architecture (3.A.9)

Mariyka Semchyshyn, Leanne Britcher, Gayle Morris, Marlene Cran, Daniel Fornasiero, *University of South Australia and Victoria University, Australia.*

Phosphonate carboxylate copolymer dispersants for boehmite (3.A.10)

T. López-León, D. Bastos-González, J. L. Ortega-Vinuesa, A. Elaïssari, *University of Granada, Spain; ENS de Lyon, France.*
Salt effects on the cononsolvency of poly(N-isopropylacrylamide) microgel particles in mixed ethanol-water solutions (3.A.11)

Manuel Santander-Ortega, Teresa López-León, Juan Luis Ortega-Vinuesa, Delhi Bastos-González, *University of Granada, Spain.*
Hofmeister effects on highly hydrophilic chitosan nanocapsules (3.A.12)

P. Massé, S. Ravaine, *Centre de Recherche Paul Pascal - CNRS, Pessac, France.*
Fabrication of colloidal crystals with a complex architecture through the Langmuir-Blodgett technique (3.A.13)

A. Perro, S. Reculosa, E. Bourgeat-Lami, E. Duguet, S. Ravaine, *Centre de Recherche Paul Pascal and Institut de Chimie de la Matière Condensée de Bordeaux - CNRS, Pessac, France; CPE Lyon, France.*
Synthesis of hybrid colloidal particles with a controlled morphology (3.A.14)

A. Zillessen, E. Bartsch, *Universität Freiburg, Germany.*
Synthesis and characterization of photocrosslinkable microgel colloids (3.A.15)

Cornelius Gauer, Hua Wu, Marco Lattuada, Massimo Morbidelli, *ETH Zurich, Switzerland.*
The role of surface characteristics in the structure of clusters generated from soft colloidal particles (3.A.16)

Gopinath Shanmugavadivelu, Chandan Upadhyay, Wiebke F.C. Sager, *Forschungszentrum Jülich, Germany.*
Crystallization of BaCO₃ nanoparticles in nonionic water-in-oil microemulsions (3.A.17)

S. Schwarz, M. Mende, S. Zschoche, G. Petzold, K.-F. Arndt, *Leibniz Institute of Polymer Research Dresden and Dresden University of Technology, Germany.*
Nanoparticles with different hydrophobicity in colloidal dispersion (3.A.18)

V. N. Paunov, O. J. Cayre, H. A. Wege, Anne-Claude Courbaron, O. D. Velev, *University of Hull, UK; North Carolina State University, USA.*
Novel methods for “in bulk” fabrication of anisotropic colloid particles (3.A.19)

Marta Kolasinska, Rumen Krastev, *Max Planck Institute of Colloids and Interfaces, Potsdam, Germany.*
2D ordering of gold nanoparticles incorporated into polymer matrix (3.A.20)

K. Paciejewska, F. Babick, M. Stintz, R. Lange, *Technische Universität Dresden, Germany.*
Conditioning of binary suspensions of colloidal metal oxides (3.A.21)

T. Gibaud, F. Cardinaux, A. Stradner, P. Schurtenberger, *University of Fribourg, Switzerland.*
Protein as model colloid or the physics of dynamical arrest (3.A.22)

M. Euvrard, F. Membrey, A. Foissy, *Institut UTINAM – CNRS, Besançon, France.*
Interactions between silica and acrylic polymers in aqueous solutions (3.A.23)

Hélène Dihang, Pascal Bru, François Maystre, *Formulation, L'Union, France; Instrumat, Renens, Switzerland.*

Stability of nanoparticle dispersions (3.A.24)

Hélène Dihang, Pascal Bru, Laurent Brunel, François Maystre, *Formulation, L'Union, France; Instrumat, Renens, Switzerland.*

Film formation from colloidal systems studied by diffusing-wave spectroscopy (3.A.25)

E. M. S. Azzam, A. M. Badawi, A. R. E. Alawady, *Egyptian Petroleum Research Institute, Cairo, Egypt.*

Synthesis and characterization of some self-assembled thiol surfactants on gold nanoparticles (3.A.26)

Joint ECIS/COST Poster Session B, Thursday, September 13, 2007, 15:20 – 17:00

Aidan G. Young, David P. Green, A. James McQuillan, *University of Otago, Dunedin, New Zealand.*

Surface chemistry and ligand exchange reactions of cadmium chalcogenide nanoparticles (3.B.1)

Dersy Lugo, G. H. Findenegg, Julian Oberdisse, *Technical University of Berlin, Germany; University of Montpellier II, France.*

Study of aggregative adsorption of nonionic surfactants on colloidal silica beads (3.B.2)

Ágnes Mastalir, Zoltán Király, Imre Dékány, *University of Szeged, Hungary.*

Synthesis of monodispersed Pd nanoparticles in graphite oxide: A novel host material (3.B.3)

Andrea Majzik, Rita Ratakfalvi, Edit Pál, Daniel Sebök, Imre Dékány, *Hungarian Academy of Sciences and University of Szeged, Szeged, Hungary.*

Surface functionalization and self-assembly of metal oxide and gold colloids (3.B.4)

M. J. Aranda-Rascón, J. J. López-García, J. Horno, *Universidad de Jaén, Spain.*

Diffuse double layer around a colloidal particle: Ionic size effects (3.B.5)

M. Klokkenburg, Ben H. Erné, J. D. Meeldijk, A. P. Philipse, *Utrecht University, The Netherlands.*

Quantitative cryogenic electron microscopy of magnetic dipolar colloids (3.B.6)

E. M. Claesson, Ben H. Erné, I.A. Bakelaar, B. W. M. Kuipers, A. P. Philipse, *Utrecht University, The Netherlands.*

Permanent magnetic moment of colloidal silica spheres with a cobalt ferrite shell (3.B.7)

Ondřej Dammer, Klára Podhájecká, Marek Procházka, Blanka Vlčková, Jiří Pflieger, *Charles University and Academy of Sciences of the Czech Republic, Prague, Czech Republic.*

Spectroscopic studies of poly (p-phenylene vinylene) derivatives containing gold nanoparticles (3.B.8)

Jianjun Zhao, Fei Li, Christopher R. Bradbury, Patrick R. Unwin, David J. Fermín, *Universität Bern, Switzerland; University of Warwick, Coventry, UK.*
Electrocatalytic reactivity of Pd nanostructures at insulating surfaces (3.B.9)

B. Maxit, D. Bendejacq, V. Ponsinet, *Université Bordeaux I - CNRS, Rhodia Recherches et Technologies, Aubervilliers, France.*
Ordered phases of amphiphilic copolymers and nanoparticles (3.B.10)

Nils Elsner, David Snoswell, Brian Vincent, *School of Chemistry, University of Bristol, Bristol, UK.*
Colloidal particles in AC electric fields modelled by modified DLVO calculations (3.B.11)

Benito Rodríguez-González, Marek Grzelczak, Miguel A. Correa-Duarte, Jorge Pérez-Juste, Luis M. Liz-Marzán, *Universidade de Vigo, Spain.*
High resolution transmission electron microscopy of metallic Ni nanoshells (3.B.12)

V. Banegas-Font, J. J. López-García, *Universidad de Jaén, Spain.*
Consideration on theoretical cell models in concentrated colloidal suspensions (3.B.13)

Ignacio Moreno-Villoslada, Felipe González, Marcos Soto, Paulina Colquin, Susan Hess, *Universidad Austral de Chile, Valdivia, Chile.*
Nanoparticle formation by aromatic-aromatic interaction between water- soluble polymers and low molecular-weight species (3.B.14)

Mamoru Mizutani, Tadashi Nakamura, Yuri Yamada, Kazuhisa Yano, *Toyota Central R&D Laboratories Inc., Aichi, Japan.*
Novel synthesis of highly monodispersed ferromagnetic porous composite spheres (3.B.15)

Francisco J. Arroyo, María del Mar Ramos-Tejada, María Luisa Jiménez-Olivares, Ángel V. Delgado, Félix Carrique, *University of Jaén, University of Granada, and University of Málaga, Spain.*
Dielectric relaxation in concentrated non-aqueous colloidal suspensions (3.B.16)

Matthias Karg, Isabel Pastoriza-Santos, Jorge Pérez-Juste, Luis M. Liz-Marzán, Thomas Hellweg, *University of Bayreuth and Technical University Berlin, Germany; University Vigo, Spain.*
Nanorod-coated PNIPAM microgels: Thermoresponsive optical properties (3.B.17)

Matthias Karg, Isabel Pastoriza-Santos, Luis M. Liz-Marzán, Thomas Hellweg, *University of Bayreuth and Technical University Berlin, Germany; University Vigo, Spain.*
New well-defined hybrid materials with thermoresponsive PNIPAM-shells and inorganic nanoparticle-cores (3.B.18)

Pandian Senthil Kumar, Isabel Pastoriza-Santos, F. Javier García de Abajo, Luis M. Liz-Marzán, *Universidade de Vigo and CSIC, Madrid, Spain.*
Novel one step synthesis of self-assembled flower like colloidal gold nanostructures (3.B.19)

Enrique Carbó-Argibay, Isabel Pastoriza-Santos, Jorge Pérez-Juste, Benito Rodríguez González, Luis M. Liz-Marzán, *Universidade de Vigo, Spain.*
Overgrowth of gold nanorods: From rods to octahedron (3.B.20)

Marina M. Sinyureva, Owen R. Lozman, Douglas J. Edwards, Andrew P. Ormerod, Gordon J.T. Tiddy, *University of Manchester and FUJIFILM Imaging Colorants, Manchester, UK*.
Tautomerism and aggregate structure of edicol sunset yellow: ^1H and ^{13}C NMR study (3.B.21)

Ann-Catrin Johnson, Magnus Hagström, Staffan Wall, *Göteborg University, Sweden*.
Electrospray size analysis of colloidal dispersions (3.B.22)

Lorenz J. Bonderer, André R. Studart, Ludwig J. Gauckler, *ETH Zurich, Switzerland*.
Microstructure and mechanics of concentrated suspensions during in situ coagulation of particles directly observed by confocal microscopy (3.B.23)

Zichen Jia, Hua Wu, Massimo Morbidelli, *ETH Zurich, Switzerland*.
Thermal restructuring of fractal clusters made of a strawberry-like core-shell polymer colloid (3.B.24)

Zichen Jia, Hua Wu, Jianjun Xie, Massimo Morbidelli, *ETH Zurich, Switzerland*.
Effects of temperature and surfactant type on the stability and aggregation behaviour of styrene-acrylate copolymer colloids (3.B.25)

Ángel V. Delgado, Raúl Rica, María L. Jiménez, Stéphanie Gonçalves, Julien Pacull, *University of Granada, Spain; ENSIACET, Toulouse and Ecole Généraliste d'Ingénieurs de Marseille, France*.
Electric permittivity of suspensions of magnetic nanoparticles (3.B.26)

Günter K. Auernhammer, Doris Vollmer, Jinyu Zhao, Beate Ullrich, *Max-Planck-Institut für Polymerforschung, Mainz, Germany*.
Nematic liquid crystalline droplets in ac fields and their interaction with dispersed colloids (3.B.27)

Mathias Reufer, Pedro Díaz-Leyva, Herve Dietsch, Frank Scheffold, Peter Schurtenberger, *University of Fribourg, Switzerland; University of Freiburg, Germany*.
Temperature sensitive core-shell particles as a model system to study equilibrium and non equilibrium phase behaviour of hard sphere systems (3.B.28)

Félix Carrique, Emilio Ruiz-Reina, Francisco J. Arroyo, María Luisa Jiménez-Olivares, Ángel V. Delgado, *University of Málaga, University of Jaén, University of Granada, Spain*.
Dielectric response of a concentrated salt-free colloidal suspension (3.B.29)

Margarita Sánchez-Domínguez, Carolina D. Aubéry, Conxita Solans, *Instituto de Investigaciones Químicas y Ambientales de Barcelona, Spain*.
Nonionic water-in-oil (w/o) microemulsions as templates for the synthesis of mixed oxide nanoparticles of non-noble metals (3.B.30)

Vitaly Kocherbitov, Viveka Alfredsson, *Malmö University, Lund University, Sweden*.
Hydration of hexagonally ordered mesoporous silica (3.B.31)

Amgad S. Moussa, Matthäus U. Bäbler, Miroslav Soos, Massimo Morbidelli, *ETH Zurich, Switzerland*.
Comparison and experimental validation of aggregation efficiency models (3.B.32)

Martin Trulsson, Torbjörn Åkesson, Jan Forsman, Christophe Labbez, Bo Jönsson, *Lund University, Sweden; Université de Bourgogne, Dijon, France.*

Repulsion between oppositely charged macromolecules or particles (3.B.33)

Alberto Martín-Molina, Manuel Quesada-Pérez, Roque Hidalgo-Álvarez, *University of Granada and University of Jaén, Spain.*

Charge reversal in real colloids: Experiments, theory and simulations (3.B.34)

J. M. López-López, A. Schmitt, A. Moncho-Jordá, R. Hidalgo-Álvarez, *Autonomous University of Madrid and University of Granada, Spain.*

Aggregation regimes in mixtures of oppositely charged colloids (3.B.35)

Fernando Vereda, Benito Rodríguez-González, Juan de Vicente, Roque Hidalgo-Álvarez, *Universidad de Granada and Universidad de Vigo, Spain.*

X-ray and electron diffraction study of micrometric and nanometric magnetite particles (3.B.36)

Graeme Gillies, Michal Borkovec, *University of Geneva, Switzerland.*

Aggregation and interaction forces of charged particles and oppositely charged polyelectrolytes (3.B.37)

Michal Skarba, Wei Lin, Michal Borkovec, *University of Geneva, Switzerland; Sichuan University, China.*

Thin polyelectrolyte layer on colloidal particles investigated by light scattering (3.B.38)

Władysław Janusz, Ewa Skwarek, Marlena Matysek-Nawrocka, *Maria Curie-Skłodowska University, Lublin, Poland.*

Coadsorption of zinc and oxalate ions at the TiO₂/electrolyte solution interface (3.B.39)

Aylin M.Deliormanlı, Erdal Çelik, Mehmet Polat, *Izmir Institute of Technology and Dokuz Eylül University, Turkey.*

Effect of inorganic electrolytes on the isoelectric point of lead magnesium niobate (3.B.40)

Topic 4: Homogeneous and structured interfaces

Poster Session A, Tuesday, September 11, 2007, 15:20 – 17:00

Diana Yarova, Anna Zaretskaya, Irina Soboleva, *Academy of Sciences, Moscow, Russia*.
Spreading over composite and porous surfaces probed by dynamic contact angle measurement (4.A.1)

Bart R. Postmus, Frans A. M. Leermakers, Martien A. Cohen Stuart, *Wageningen University, The Netherlands*.
Competitive adsorption of nonionic surfactant and nonionic polymer (4.A.2)

Wiebe M. de Vos, Frans A. M. Leermakers, Arie de Keizer, J. Mieke Kleijn, Martien A. Cohen Stuart, *Wageningen University, The Netherlands*.
Polydisperse polymer brushes (4.A.3)

J. Kowal, B. Czajkowska, K. Gornacka, *Jagiellonian University, Krakow, Poland*.
Modification of poly(ϵ -caprolactone) surface by hydrolytic degradation (4.A.4)

J. Kowal, B. Czajkowska, M. Gaweda, *Jagiellonian University, Krakow, Poland*.
Effect of UV irradiation on the surface properties of polysulfone (4.A.5)

Laura Hudson, Julian Eastoe, Peter Dowding, *University of Bristol, Bristol, and Infinuem, Abingdon, UK*.
Unexpected non-ideal mixing in homologous surfactants (4.A.6)

Andreas Timmann, Stephan Volkher Roth, Steffen Fischer, Stephan Förster, *DESY and University of Hamburg, Germany*.
In-situ investigation of the interfaces of a block copolymer solution under shear stress with micro focus GISAXS (4.A.7)

B. N. Nickolova, C. S. Vassilieff, E. D. Manev, *University of Sofia, Bulgaria*.
Thinning of foam films of micellar solutions: Effect of the alkyl-chain length (4.A.8)

Emil D. Manev, Jana Angarska, *Sofia University and Shoumen University, Bulgaria*.
Kinetic stability of foam films from aqueous solutions of single and mixed surfactants (4.A.9)

Stoyan I. Karakashev, Emil D. Manev, Anh V. Nguyen, *The University of Queensland, Australia; Sofia University, Bulgaria*.
Dynamic effects in surfactant-free foam films from aqueous solutions of inorganic electrolytes (4.A.10)

Radomir Slavchov, Boryan Radoev, Tzanko Ivanov, *University of Sofia, Bulgaria*.
Charged heterogeneous surfaces and intrinsic surface polarizability (4.A.11)

Radomir Slavchov, Boryan Radoev, *University of Sofia, Bulgaria*.
Interactions in charged heterogeneous monolayers (4.A.12)

Tobias Balmer, Hugo Christenson, Manfred Heuberger, *ETH Zürich and EMPA St. Gallen, Switzerland; University of Leeds, UK.*

Hydration of mica in nitrogen and in a non-polar liquid (4.A.13)

Yahya Akgöl, Christian Hofmann, Yunus Karatas, Cornelia Cramer, Hans-Dieter Wiemhöfer, Monika Schönhoff, *Westfälische Wilhelms-Universität Münster, Germany.*

Conductivity spectra of polyphosphazene-based polyelectrolyte multilayers (4.A.14)

Bruno Jean, Frédéric Dubreuil, Fabrice Cousin, *Centre de Recherche sur les Macromolécules Végétales - CNRS, Grenoble, Laboratoire Léon Brillouin CEA-CNRS, Saclay, France.*

Cellulose nanocrystals based multilayers (4.A.15)

Antonio M. Puertas, Maria J. Ariza, *Universidad de Almería, Spain.*

Liquid porous walls of hard colloids (4.A.16)

Hong H. Lee, M. Joon Kim, Seokyong Song, Hyewon Kang, Kyung-Ho Kim, Taegeun Kwon, Jihwan Kim, Jeong-Eun Park, *Seoul National University, Korea.*

Scanning surface energy gradient for dewetting over patterned surfaces (4.A.17)

Igor Mastikhin, Benedict Newling, *University of New Brunswick, Fredericton, Canada.*

Dissolved gas and nucleation sites in cavitating liquid (4.A.18)

Naoyuki Ishida, Simon Biggs, *University of Leeds, UK; National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan.*

Nanostructural analysis of phase transitions for poly(N-isopropylacryamide) layer grafted onto solid surface using AFM and QCM-D (4.A.19)

Georges Brügger, Lukas Schaffner, René Nyffenegger, Jaroslav Ricka, *University of Bern, Switzerland.*

The interaction of gold nanoparticles with supported phospholipid bilayers (4.A.20)

Dmytro S. Golovko, Elmar Bonaccorso, Hans-Jürgen Butt, *Max-Planck-Institute for Polymer Research, Mainz, Germany.*

Mass and surface stress sensing of evaporating drops using microcantilevers (4.A.21)

Marius Hatlo, Leo Lue, *University of Manchester, UK.*

Polarizable electrolytes in bulk and near interfaces (4.A.22)

Marius Hatlo, Robin Curtis, Leo Lue, *University of Manchester, UK.*

Electrostatic depletion induced salting-out (4.A.23)

Hiromichi Nakahara, Osamu Shibata, Yoshikiyo Moroi, *Kyushu University, Fukuoka, Japan.*

Examination of surface adsorption of soluble surfactants by surface potential measurement at the air/solution interface (4.A.24)

Yukiko Sato, Hiromichi Nakahara, Yuriko Ikeda, Yoshikiyo Moroi, Osamu Shibata, *Kyushu University and Nagasaki International University, Japan.*

Solubilization of n-alkylbenzenes into octaethylene glycol monotetradecyl ether (C₁₄E₈) micelles (4.A.25)

Jyunya Masuda, Hiromichi Nakahara, Yoshikiyo Moroi, Osamu Shibata, *Kyushu University and Nagasaki International University, Japan.*

The CMC measurements of perfluorinated anionic surfactants with divalent counterion of separate electric charges (4.A.26)

Jenni Karjalainen, John Ralston, Rossen Sedev, *University of South Australia, Australia.*

Surface tension of room temperature ionic liquids (4.A.27)

Joint ECIS/COST Poster Session B, Thursday, September 13, 2007, 15:20 – 17:00

Hua Chen, Jordan Petrov, Hubert Motschmann, *Max-Planck-Institute of Colloids and Interfaces, Golm, Germany; Bulgarian Academy of Sciences, Sofia, Bulgaria.*

What have nonlinear optical techniques offered for the characterization of fluid interfaces? (4.B.1)

Christopher R. Bradbury, Jianjun Zhao, D. J. Fermín, *University of Bern, Switzerland.*

Charge transfer kinetics across electrostatic assemblies of metal nanostructures at gold electrodes (4.B.2)

Jordan G. Petrov, Emmanuel Polymeropoulos, Helmuth Moehwald, *Bulgarian Academy of Sciences, Sofia, Bulgaria; Zentaris GmbH, Frankfurt, and Max-Planck-Institute of Colloids and Interfaces, Golm, Germany.*

Different conformations of fluorinated hydrophilic heads can dramatically increase or revert the dipole moments at the Langmuir monolayer-water boundary (4.B.3)

Jordan G. Petrov, Tonya D. Andreeva, Gerald Brezesinski, Helmuth Moehwald, *Bulgarian Academy of Sciences, Sofia, Bulgaria; Max-Planck-Institute of Colloids and Interfaces, Golm, Germany.*

Comparison of the molecular structure of Langmuir monolayers with N-trifluoroethyl amide and trifluoroethyl ester polar heads yielding opposite dipole potentials (4.B.4)

Hua Chen, Jordan G. Petrov, Hubert Motschmann, Helmuth Moehwald, *Max-Planck-Institute of Colloids and Interfaces, Golm, Germany; Bulgarian Academy of Sciences, Sofia, Bulgaria.*

Study of the origin of the opposite dipole potentials of Langmuir monolayers via sum frequency vibrational spectroscopy (4.B.5)

Yu-Bing Liou, Ruey-Yug Tsay, *National Yang-Ming University, Taipei, Taiwan.*

Adsorption of PEO-PPO-PEO triblock copolymer on gold surface (4.B.6)

Sara Briscoe, Gunilla Carlsson, Jan van Stam, Bengt Kronberg, *Karlstad University, Karlstad, and Institute for Surface Chemistry, Stockholm, Sweden.*

Interactions between hydrocarbon molecules: An HPLC study (4.B.7)

Viswanath Padmanabhan, Gabi Wienskol, Hubert Motschmann, *Max-Planck-Institute of Colloids and Interfaces, Golm, Germany.*

Ions at the air-water interface: A vibrational sum frequency spectroscopy study (4.B.8)

Yuki Matsumoto, Hiromichi Nakahara, Yoshikiyo Moroi, Osamu Shibata, *Kyushu University, Fukuoka, and Nagasaki International University, Japan.*

Perfluorinated double long-chain salts Langmuir monolayer with divalent counterion of separate electric charge at the air-water interface (4.B.9)

Hiromichi Nakahara, Sannamu Lee, Marie Pierre Krafft, Osamu Shibata, *Kyushu University, Fukuoka, and Nagasaki International University, Nagasaki, Japan; Institut Charles Sadron Strasbourg, France.*

Impact of partially fluorinated amphiphiles on model substitutes for pulmonary surfactant at the air-water interface (4.B.10)

Minami Tsuji, Hiromichi Nakahara, Yuriko Ikeda, Yoshikiyo Moroi, *Osamu Shibata, Kyushu University, Fukuoka, and Nagasaki International University, Japan.*

Evaporation rate of water across monolayer of hydrophobic acids under equilibrium spreading pressure (4.B.11)

Natascha Schelero, Richard Campbell, Tommy Nylander, Regine v. Klitzing, *TU Berlin, Germany; University of Lund, Sweden.*

Correlation between surfactant adsorption at interfaces and interactions in wetting films (4.B.12)

P. Barber, T. Asakawa, H. K. Christenson, *University of Leeds, UK; Kanazawa University, Japan.*

What determines the size of liquid capillary condensates below the bulk melting point? (4.B.13)

Yoshiteru Hayami, Daiki Murakami, Saeid Azizian, Hiroki Matsubara, Takanori Takiue, Makoto Aratono, *Chikushi Jogakuen Junior College and Kyushu University, Japan.*

Surface freezing of 1-octadecene at its interfaces against air and water (4.B.14)

Francesca Barbagini, Jan Van Hoeymissen, Twan Bearda, Paul Mertens, Jan Fransaer, *University of Leuven, and Inter-University Micro-Electronics Center, Leuven, Belgium.*

Particle-substrate interactions in a nonpolar solvent: A fundamental study (4.B.15)

Kyumin Lee, Martial Duchamp, Gerit Kulik, Arnaud Magrez, Jin Won Seo, Andrej J. Kulik, László Forró, *Ecole Polytechnique Fédérale de Lausanne, Switzerland.*

Uniformly dispersed deposition of colloidal nanoparticles and nanowires by boiling (4.B.16)

Ralf Zimmermann, Willem Norde, Martien A. Cohen Stuart, Carsten Werner, *Leibniz Institute of Polymer Research Dresden, Wageningen University and University of Groningen, The Netherlands; University of Toronto, Canada.*

Charge characteristics and structural transitions of polymer brushes revealed by microslit electrokinetic experiments (4.B.17)

Saziye Uğur, Önder Pekcan, *Istanbul Technical University and Işık University, Turkey.*

Fluorescence study of film formation from PS-TiO₂ composites (4.B.18)

M. Bončina, J. Reščič, V. Vlachy, *University of Ljubljana, Slovenia.*

Depletion interaction and ion-specific effects in protein solutions (4.B.19)

Anna Bratek, Zbigniew Adamczyk, Aneta Michna, Maria Zembala, *Polish Academy of Sciences, Cracow, Poland.*

Particles deposition on surfaces covered by polyelectrolytes (4.B.20)

Giuseppe Loglio, Piero Pandolfini, Boris A. Noskov, Francesca Ravera, Reinhard Miller, Libero Liggieri, Jürgen Krägel, Lucilla Del Gaudio, *University of Florence, Italy; St. Petersburg State University, Russia; CNR - Istituto per l'Energetica e le Interfasi, Genoa, and ENI S.p.A. E&P Division, San Donato Milanese, Italy; Max-Planck-Institute for Colloids and Interfaces, Golm, Germany.*

Interfacial rheology of liquid/liquid systems (4.B.21)

Henry A. Lambis Miranda, Allan D. Mackie, Josep Bonet Avalos, *University Rovira i Virgili, Tarragona, Spain.*

Analysis of the force between adsorbing plates by SCMF theory (4.B.22)

Michele Ferrari, Libero Liggieri, Francesca Ravera, *CNR- Institute for Energetics and Interphases, Genova, Italy.*

Amphiphilic molecules at superhydrophobic surfaces in water-air and water-oil systems (4.B.23)

Francesca Ravera, Libero Liggieri, Giuseppe Loglio, Michele Ferrari, Eva Santini, *CNR- Institute for Energetics and Interphases, Genoa, Italy; University of Florence, Italy.*

Effect of colloidal nanoparticles on water/oil and water/air interfacial properties (4.B.24)

İ. Hilal Gübbük, İmren Hatay, Ahmet Coşkun, Mustafa Ersöz, *Selçuk University, Turkey.*
Efficient immobilization of oxime derivative onto silica gel and use for adsorption studies (4.B.25)

Brian Cahill, Ramon Pericet-Camara, Georg Papastavrou, Michal Borkovec, *University of Geneva, Switzerland; Max-Planck-Institute for Polymer Research, Mainz, Germany.*

The role of substrate charge in polyelectrolyte adsorption: PAMAM dendrimers on silica (4.B.26)

T. Atalay, C. Baslak, H. Bingöl, *Selçuk University, Turkey.*

Electrochemical investigation of Cd(II) ion transfer assisted by 4-morpholinoacetophenone-4-ethyl-3-thiosemicarbazone at the liquid/liquid interface (4.B.27)

E. G. Akgemci, H. Bingol, S. Kaya, M. Ersoz, I. Stibor, *Selcuk University, Turkey; Prague Institute of Chemical Technology, Czech Republic.*

Facilitated transfer of alkali metal ions at the water/1,2-dichloroethane interface by p-tert-butyl-thiacalix[4]arene derivative (4.B.28)

H. Bingol, E. G. Akgemci, T. Atalay, M. Ersoz, I. Stibor, *Selcuk University, Turkey; Prague Institute of Chemical Technology, Czech Republic.*

Sodium and lithium ions transfer across a water/1,2-dichloroethane interface facilitated by a tetraester-thiacalix[4]arene derivative (4.B.29)

Ahmet Ozgur Saf, Sabri Alpaydin, Mustafa Yilmaz, *Selçuk University, Turkey.*

Kinetic study of chromate ions transport through bulk liquid membrane containing cyclic alkylamine calix[4]arene derivative (4.B.30)

M. Ángeles Valenzuela, M. Pilar Gárate, Andres F. Olea, *Universidad Técnica Federico Santa María and Universidad Andrés Bello, Chile.*

Adsorption behaviour of alcohols ethoxylates at the n-heptane/water interface (4.B.31)

T. Vongsetskul, R. Thomas, *University of Oxford, UK.*

Interaction between mixtures of conventional/gemini surfactants and small oppositely charged polyelectrolyte at the air/water surface (4.B.32)

Ronny Sczech, Kerstin Eckert, *Technical University Dresden, Germany.*

Periodic instability in a liquid-liquid system with crown ether complexation reaction (4.B.33)

Dillip K. Satapathy, Oliver Bunk, Konstantins Jefimovs, Ana Diaz, Franz Pfeiffer, Christian David, Hua Guo, Gerard H. Wegdam, Johannes Friso van der Veen, *Paul Scherrer Institut, Villigen, and ETH Zürich, Zürich, Switzerland; European Synchrotron Radiation Facility, Grenoble, France; Universiteit van Amsterdam, The Netherlands.*

Structure of charge stabilized colloidal fluid under confinement: Effect of Debye screening length and confining gap size (4.B.34)

Kamil Wojciechowski, Marta Kucharek, Wojciech Wróblewski, *Warsaw University of Technology, Poland.*

Adsorption of electroactive components of membranes of ion-selective membranes (4.B.35)

I. Hatay, R. Gup, M. Ersöz, *Selcuk University and Mugla University, Turkey.*

Adsorption and thermochemical data of divalent cations onto silica gel surface modified with Schiff base at solid/liquid interface (4.B.36)

İ. Hilal Gubbuk, Ramazan Gup, Mustafa Ersoz, *Selcuk University and Mugla University, Turkey.*

Covalent immobilization of benzylphenone 4-aminobenzylhydrazone on silica gel for application in aqueous solution (4.B.37)

Klemen Bohinc, Stefano Maset, Janez Pavlič, Veronika Kralj-Iglič, Aleš Iglič, *University of Ljubljana, Slovenia; University of Trieste, Italy.*

Attraction between equally charged surfaces mediated by rod-like and spheroidal nanoparticles (4.B.38)

Rumen Krastev, Jiangshan Chen, *Max-Planck Institute of Colloids and Interfaces, Golm, Germany.*

Formation of polyelectrolyte/lipid multilayers architectures (4.B.39)

Jacek Patkowski, Stanisław Chibowski, *University of Maria Curie-Skłodowska, Lublin, Poland.*

Adsorption of polyethylene oxide of various purities on silica and influence of impurities on adsorption of polymers (4.B.40)

Audrey Beaussart, Agnieszka Mierczynska-Vasilev, Kristen Bremmell, David A. Beattie, *University of South Australia, Australia.*

Investigation of polysaccharides adsorbed on molybdenite (4.B.41)

Vanessa Allain, Claudie Bourgaux, Michel Ollivon, *Université Paris-Sud, France*.
Influence of pH and ions on model membranes: A DSC/SAXS/WAXS study (4.B.42)

C. Pignolet, C. Filiâtre, M. Euvrard, A. Foissy, *Université de Franche-Comté, Besançon, France*
Analysis of particles velocity on an electrode in a laminar flow cell (4.B.43)

Topic 5: Self-assembly in solution and at interfaces

Poster Session A, Tuesday, September 11, 2007, 15:20 – 17:00

Bas Hofs, Arie de Keizer, Martien A. Cohen Stuart, *Wageningen University, The Netherlands*.

On the stability of (highly aggregated) polyelectrolyte complexes containing a charged-block-neutral diblock copolymer (5.A.1)

Naoko Yuno-Ohta, Milena Corredig, *Nihon University, Shizuoka, Japan; University of Guelph, Canada*.

Characterization of β -lactoglobulin A gelation in the presence of sodium caprate by ultrasound spectroscopy and transmission electron microscopy analysis (5.A.2)

Amalia Rodríguez, María del Mar Graciani, Gaspar Fernández, María Luisa Moyá, *Universidad de Sevilla, Spain*.

Influence of sphere-to-rod transitions on kinetic effects in gemini micellar solutions (5.A.3)

María Luisa Moyá, Amalia Rodríguez, María del Mar Graciani, *Universidad de Sevilla, Spain*.

Solvent effects on sphere-to-rod transitions in cationic gemini micellar solutions (5.A.4)

Céline Arnold, Serge Stoll, Yves Holl, Pascal Marie, *Institut Charles Sadron, Strasbourg, France; University of Geneva, Switzerland*.

Monte Carlo simulation of the micellization and the adsorption/desorption of surfactants in latexes (5.A.5)

C. Oelschlaeger, M. Schopferer, N. Willenbacher, *Universität Karlsruhe, Germany*.

Linear to branched micelles transition: A rheometry and diffusive wave spectroscopy (DWS) study (5.A.6)

Mikael Lund, Björn Persson, Bo Jönsson, *The Academy of Sciences, Prague, Czech Republic; Lund University, Sweden*.

Dipolar steering and macromolecular interactions (5.A.7)

Á. W. Imre, C. Cramer, M. Schönhoff, *Westfälische Wilhelms-Universität Münster, Germany*.

Ion transport in PSS/PDADMAC polyelectrolyte complexes (5.A.8)

Pieter Saveyn, Ellen Cocquyt, Davy Sinnaeve, José C. Martins, Paul Van der Meeren, *Ghent University, Belgium*.

NMR study of the sorption behaviour of benzyl alcohol derivatives into sonicated and extruded dioctadecyldimethylammonium chloride (DODAC) dispersions (5.A.9)

Vera Tchakalova, Fabienne Testard, Kenneth Wong, Alan Parker, Daniel Benczédi, Thomas Zemb, CEA Saclay, France; Firmenich SA, Genève, Switzerland; *Institut de Chimie séparative de Marcoule, Bagnols-sur-Cèze, France*.

Link between solubilisation and solute-induced interfacial curvature in microemulsions (5.A.10)

Nina Vlachy, Didier Touraud, Jean-Marc Verbavatz, Werner Kunz, *University of Regensburg, Germany; C.E. de Saclay, Gif sur Yvette, France.*

Effect of “hydrophobic” cations on vesicular self-assembly (5.A.11)

M. C. Moran, M. R. Infante, L. Perez, A. Pinazo, L. Coppola, M. Youssry, I. Nicotera, *Istitutut d’Investigacions Quimiques I Ambientals de Barcelona, CSIC, Spain; University of Calabria, Rende, Italy.*

Lyotropic phase behaviour of 1,2-dilaurolyl-glycerol-3-O-(N α -acetyl-L-arginine) (5.A.12)

J. M. G. Sarraguça, A. A. C. C. Pais, Per Linse, *Universidade de Coimbra, Portugal; Lund University, Sweden.*

Structure of microemulsion-ABA triblock copolymer networks (5.A.13)

César A. Godoy, Wilson E. Muñoz Garzón, Gemma Montalvo, Mercedes Valiente, *University of Alcalá, Madrid, Spain; Universidad Centra, Quito, Ecuador.*

Effect of fatty acids on self-assembly of soybean lecithin (5.A.14)

Mercedes Valiente, Ramon Pons, Gemma Montalvo, *University of Alcalá and IIQAB-CSIC, Barcelona, Spain.*

Structural determinations of the liquid crystals in soybean lecithin/fatty acid/water systems by SAXS (5.A.15)

Lourdes Perez, Maria Rosa Infante, Marta Angelet, Ramon Pons, Aurora Pinazo, *Departament de Tecnologia de Tensioactius, Barcelona, Spain.*

Cationic polyol lysine-based surfactants: Synthesis and surface active properties (5.A.16)

Mariusz Uchman, Miroslav Stepanek, Karel Prochazka, Milena Spirkova, Martina Urbanova, Grigoris Mountrichas, Stergios Pispas, *Charles University and The Academy of Sciences, Prague, Czech Republic; National Hellenic Research Foundation, Athens, Greece.*

Novel multifunction block polyelectrolytes in aqueous solutions and on surface (5.A.17)

Jitka Havránková, Zuzana Limpouchová, Miroslav Štěpánek, Karel Procházka, *Charles University, Prague, Czech Republic.*

A computer simulation study of self-assembly of gradient copolymers (5.A.18)

Bruno Medronho, Shahram Shafaei, Richard Szopko, Maria Graça Miguel, Ulf Olsson, Claudia Schmidt, *University of Coimbra, Portugal; Lund University, Sweden; University of Paderborn, Germany.*

Shear-induced structural transformations of the lyotropic lamellar phase: Continuous or discontinuous transitions? (5.A.19)

Silvia Milani, Francesca Baldelli Bombelli, Debora Berti, Piero Baglioni, *University of Florence, Italy.*

Nucleolipoplexes: Complementary polynucleotides intercalation in nucleolipid lamellar phases (5.A.20)

Chiara Vannucci, Emiliano Fratini, Sabrina Bianchi, Valter Castelvetro, Piero Baglioni, *University of Florence and University of Pisa, Italy.*

Preparation and characterization of double-hydrophilic block copolymers by small angle scattering (5.A.21)

Annamária B. Páhi, Tamás Aradi, Zoltán Király, Imre Dékány, József Dudás, Sándor Puskás, Árpád Vágó, *University of Szeged and MOL Hungarian Oil and Gas Plc, Algyó, Hungary.*

Thermodynamics of micelle formation of a novel cocogem surfactant, and the dynamic adsorption of the cocogem on sandstone (5.A.22)

Véronique Peyre, Sandeep Patil, Grégory Durand, Bernard Pucci, *Université Pierre et Marie Curie-Paris 6 and Université d'Avignon et des Pays du Vaucluse, France.*

Characterisation of mixed micelles of fluorinated lactobionamide surfactant with dodecyltrimethylammonium surfactant : A free enthalpy study of the mixture of hydrogenated and fluorinated chains (5.A.23)

Alexey A. Polotsky, Oleg V. Borisov, Mohamed Daoud, Marat I. Charlaganov, Frans A.M. Leermakers, CEA Saclay and Université de Pau, France; Wageningen University, The Netherlands.

Unimolecular micelles of core-shell star block copolymers: A conformational transition (5.A.24)

Elena Blanco, Juan M. Ruso, Gerardo Prieto, Pedro V. Verdes, Juan Sabín, Paula Toimil, Félix Sarmiento, *University of Santiago de Compostela, Spain.*

Study of the different thermal unfolding pathways of catalase in the presence of cationic surfactants (5.A.25)

Do-Hoon Kim, Jin-Woong Kim, Seong-Geun Oh, Junoh Kim, Sang-Hoon Han, Dong June Chung, Kyung-Do Suh, *Amore-Pacific Co. R&D Center, Gyeonggi-do, Hanyang University, Seoul, SKKU, Su-Won, Korea; Harvard University, Cambridge, USA.*

Effects of nonionic surfactant on the rheological property of associative polymers in complex formulations (5.A.26)

Joint ECIS/COST Poster Session B, Thursday, September 13, 2007, 15:20 – 17:00

Carole Aimé, Thomas Delclos, Aurélie Brizard, Marie-Hélène Delville, Ivan Huc, Reiko Oda, *Institut Européen de Chimie et Biologie and Institut de Chimie de la Matière Condensée de Bordeaux, Pessac, France.*

Morphology control and replication of nanometric chiral ribbons (5.B.1)

Doris Vollmer, Günter Auernhammer, Mika Kobayashi, Beate Ullrich, *Max-Planck-Institute for Polymer Research, Mainz, Germany.*

Oscillating phase separation in polymer solutions (5.B.2)

Harald Walderhaug, Kenneth D. Knudsen, *University of Oslo and Institute for Energy Technology, Kjeller, Norway.*

Structures in aqueous solutions of an ethoxylated polymethylsiloxane surfactant studied by NMR self-diffusion and small-angle neutron scattering measurements (5.B.3)

Sanela Mutka, Irena Đapić, Davor Kovačević, *University of Zagreb, Croatia*.
Interactions between bovine serum albumine and poly(allylamine hydrochloride):
Potentiometric and reflectometric study (5.B.4)

Josip Požar, Davor Kovačević, *University of Zagreb, Croatia*.
Interactions between poly(allylamine hydrochloride) and monovalent anions: The effect of
chain length and counterion size (5.B.5)

Julia Fornleitner, Gerhard Kahl, *Technische Universität Wien, Austria*.
Finding non-trivial equilibrium structures for the two-dimensional square-shoulder potential
(5.B.6)

B. M. Mladek, G. Kahl, C. N. Likos,
Technische Universität Wien, Austria, Universität Düsseldorf, Germany.
Amphiphilic dendrimers showing clustering behavior (5.B.7)

Minami Tsuji, Tohru Inoue, Osamu Shibata, *Kyushu University, Fukuoka University,
Nagasaki International University, Japan*.
Purification and thermal analysis of perfluoro-n-alkanoic acids (5.B.8)

Ágnes Ábrahám, Amália Mezei, Tibor Gilányi, Róbert Mészáros, *Eötvös Loránd University,
Budapest, Hungary*.
Aggregation of the nanocomplexes of oppositely charged poly(ethyleneimine) and sodium
dodecyl sulphate in the presence of supporting electrolyte (5.B.9)

Róbert Mészáros, Amália Mezei, Katalin Pojják, *Eötvös Loránd University, Budapest,
Hungary*.
The effect of solution preparation protocols on the bulk and surface properties of oppositely
charged polyelectrolytes and surfactants (5.B.10)

Attila Borsos, Róbert Mészáros, Tibor Gilányi, *Eötvös Loránd University, Budapest,
Hungary*.
Interaction of cetyl trimethylammonium bromide with poly-(N-isopropyl acrylamide acrylic
acid) copolymer microgel particles (5.B.11)

Alexandre Gurgel, Maira Silva Ferreira, Watson Loh, *Federal University of Viçosa and State
University of Campinas, Brazil*.
Phase equilibria and elucidation of self-assembly structures in systems containing silicone oil,
water, and silicone surfactant (5.B.12)

Marija Bešter-Rogač, Jurij Lah, Tine-Martin Perger, Gorazd Vesnaver, *University of
Ljubljana, Slovenia*.
Structural characteristics of micelles formed from non-ionic and ionic surfactants and
energetics of their micellization (5.B.13)

Dharmesh Varade, Kousuke Ushiyama, Lok Kumar Shrestha, Kenji Aramaki, *Yokohama
National University, Japan*.
Wormlike micelles in Tween-80/C_mEO₃ mixed nonionic surfactant systems in aqueous media
(5.B.14)

Yann Auffret, Denis C. Roux, David D. Dunstan, *Laboratoire de Rheologie de Grenoble, France; The University of Melbourne, Australia.*

Shear induced gelation within ordered phase of rod-like micelles formed by AOT, iso-octane and water (5.B.15)

Tsang-Lang Lin, Jhih-Min Lin, Yuan Hu, U-Ser Jeng, *National Tsing Hua University and National Synchrotron Radiation Research Center, Hsinchu, Taiwan.*

Small-angle neutron and X-ray scattering studies on the aggregation structure of the complexes of beta-amyloid 1-40 peptides with sodium dodecyl sulfate surfactants (5.B.16)

Sandeep Patil, Natalie Buchavzov, Enda Carey, Marion Lescanne, Cosima Stubenrauch, *University College Dublin, Ireland; Universität zu Köln, Germany.*

Surface and micellar compositions of aqueous binary non-ionic surfactant mixture (5.B.17)

Watson Loh, Rodrigo G. Angarten, *Universidade Estadual de Campinas, Brazil.*

Thermodynamics of micellization of homologous series of alkylglucosides in H₂O and D₂O investigated by calorimetric measurements (5.B.18)

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Thermoresponsive core-shell nanoparticles with self-assembled ionic surfactant shell (5.B.19)

Lennart Piculell, Jens Norrman, Anna Svensson, Juliana Bernardes, Watson Loh, *Lund University, Sweden; Universidade Estadual de Campinas, Brazil.*

Controlling structure and water uptake of ionic surfactants with polymeric counterions (5.B.20)

John W. Jones, Leo Lue, Alberto Saiani, Gordon J. T. Tiddy, *University of Manchester, UK.*

The mechanisms of lamellar (L_α)/gel (P_β) and gel (P_β)/sub-gel (L_β) phase transitions in lecithin-water systems (5.B.21)

Antri Theodorou, Alec James, Gordon J. T. Tiddy, *University of Manchester, UK.*

Microstructure in mixed surfactant lamellar phases (5.B.22)

E. Castro, S. Barbosa, D. Attwood, C. Booth, P. Taboada, V. Mosquera, *Universidad de Santiago de Compostela, Spain; University of Manchester, UK.*

New PEO-based amphiphilic block copolymers: Self-assembly properties, their control and solubilization capacity (5.B.23)

Tohru Inoue, Bin Dong, Liqiang Zheng, *Fukuoka University, Japan; Shandong University, China.*

Long-chained imidazolium ionic liquid in aqueous media (5.B.24)

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Partition of selected flavonoids towards SDS micelles (5.B.25)

Salomé dos Santos, Lennart Piculell, Ola Karlsson, Maria da Graça Miguel, *Lund University, Sweden; Coimbra University, Portugal.*

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Andrew King, Igor Mastikhin, Ben Newling, *University of New Brunswick, Canada*.
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Mixed systems containing micelles and cyclodextrin: Influence of the electric charge of the cyclodextrin (5.B.31)

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André Laschewsky, Achille M. Bivigou Koumba, Juliane Kristen, Wen Li, Katja Skrabania, Joachim Storsberg, *University of Potsdam and Fraunhofer Institute for Applied Polymer Research, Potsdam-Golm, Germany.*

Amphiphilic binary and ternary triblock copolymers as novel stimulus-responsive "smart" surfactants (5.B.42)