

LECTURE SESSION 1 - Synthesis and kinetics

Chaired by: Michael Monteiro (Australia)

9:10 – 10:10

Opening lecture OL-01

Mohamed S. El-Aasser (USA)

Miniemulsions from concept to practice:
Fundamentals and applications

10:10 – 10:40

Keynote lecture KL-01

Klaus Tauer (Germany)

Heterophase polymerization: What do we know
about the mechanism?

10:40 – 11:00

Coffee break

LECTURE SESSION 1 - Synthesis and kinetics

Chaired by: Mitchell A. Winnik (Canada)

11:00 – 11:25

Main lecture ML-01

Timothy McKenna (France)

A combined CFD-PBM approach to the scale-up of
emulsion polymerisation processes

11:25 – 11:40

Special lecture SL-01

Kaihua Shen (People's Republic of China)

Tertiary amine *N*-oxides: An interface-mediated
living radical polymerization with non-formation of
dormant chains

- 11:40 – 11:55 Special lecture SL-02
Jutta Rieger (*France*)
 From RAFT-polymerized latexes towards nanostructured materials through hydrogen bonding
- 11:55 – 12:10 Special lecture SL-03
Brian S. Hawkett (*Australia*)
 The kinetics of the emulsion polymerisation of styrene revisited
- 12:10 – 12:25 Special lecture SL-04
Vien The Huynh (*Australia*)
 Polymeric coating graphene oxide via RAFT-mediated emulsion polymerization
- 12:25 – 12:40 Special lecture SL-05
Ehsan Mehravar (*Spain*)
 Comb-like acrylic-based polymer latexes containing nano-sized crystallizable domains

12:40 – 14:00

Lunch

LECTURE SESSION 1 - Synthesis and kinetics

Chaired by: Matthias Ballauff (Germany)

- 14:00 – 14:30 Keynote lecture KL-02
José M. Asua (*Spain*)
 Developments in control of particle and film morphology
- 14:30 – 14:55 Main lecture ML-02
Masayoshi Okubo (*Japan*)
 Preparation of stimuli-responsive, asymmetric nonspherical polymer particles using surface-initiated controlled/living radical polymerization in aqueous dispersed systems and its application
- 14:55 – 15:20 Main lecture ML-03
Christopher Barner-Kowollik (*Germany*)
 Orthogonal supramolecular self-assembly for single chain folding, nanoparticle and complex macromolecular architecture design

- 15:20 – 15:35 Special lecture SL-06
Vincent Monteil (*France*)
Free radical polymerization of ethylene in aqueous dispersed media
- 15:35 – 15:50 Special lecture SL-07
Tsutomu Ono (*Japan*)
Emulsion polymerization using a water-in-oil slug flow in a microreactor

15:50 – 16:10 *Coffee break*

LECTURE SESSION 1 - Synthesis and kinetics

Chaired by: Michael Cunningham (Canada)

- 16:10 – 16:35 Main lecture ML-04
Stanisław Słomkowski (*Poland*)
Mechanisms of emulsion copolymerization of styrene and hydrophilic macromonomers
- 16:35 – 17:00 Main lecture ML-05
Patrick Lacroix-Desmazes (*France*)
Synthesis of cerium oxide/polymer hybrid latexes by emulsion polymerization
- 17:00 – 17:25 Main lecture ML-06
Stefan A. F. Bon (*United Kingdom*)
Supracolloidal chemistry: Soft materials from "smart" building blocks

- 8:30 – 9:00 Keynote lecture KL-03
Jean-Luis Viovy (*France*)
 Colloid self-assembly put to work in microscale analysis
- 9:00 – 9:25 Main lecture ML-07
Michael Monteiro (*Australia*)
 siRNA delivery using polymers nanoparticles
- 9:25 – 9:40 Special lecture SL-08
Oleksandr Kuzmenko (*Ukraine*)
 Anti-tumor activity of surface-modified iron oxide nanoparticles
- 9:40 – 9:55 Special lecture SL-09
Corinne R. Vebert-Nardin (*Switzerland*)
 Electrostatic interaction of the Alzheimer's amyloid β (1-42) peptide with short single stranded synthetic nucleotide sequences affects the pathogenic fibrillar structure

9:55 – 10:15 *Coffee break*

LECTURE SESSION 2 - Colloids for biosciences

Chaired by: Jean-Luis Viovy (France)

- 10:15 – 10:45 Keynote lecture KL-04
Abdelhamid Elaissari (*France*)
 Multi hollow particles preparation for therapy and theranostic applications
- 10:45 – 11:10 Main lecture ML-08
Yukio Nagasaki (*Japan*)
 Redox polymer nanoparticles for novel therapeutics against oxidative stress

11:10 – 11:25	Special lecture SL-10 Atsushi Maruyama (<i>Japan</i>) Soluble inter-polyelectrolyte complexes to engineer assemblies and functions of biopolymers
11:25 – 11:40	Special lecture SL-11 Kensuke Osada (<i>Japan</i>) Development of functional polyplex micelles toward systemic gene therapy
11:40 – 11:55	Special lecture SL-12 Soliman Mehawed Abdellatif Soliman (<i>France</i>) Photosensitive amphiphilic glycopolymers used to formulate hydrophobic drug delivery systems
11:55 – 12:10	Special lecture SL-13 Staffan Schantz (<i>Sweden</i>) Polymer colloids in oral drug delivery applications
12:10 – 12:25	Special lecture SL-14 Adrian V. Fuchs (<i>Australia</i>) Targeted hyperbranched polymers for prostate cancer theranostics

12:25 – 14:00 *Lunch*

LECTURE SESSION 2 - Colloids for biosciences

Chaired by: Karen L. Wooley (USA)

14:00 – 14:30	Keynote lecture KL-05 Craig J. Hawker (<i>USA</i>) Novel polymer colloids inspired by marine organisms
14:30 – 14:55	Main lecture ML-09 Kanjiro Miyata (<i>Japan</i>) Development of polymeric nanomaterials for systemic siRNA delivery to solid tumors
14:55 – 15:10	Special lecture SL-15 Jose Ramos (<i>Spain</i>) Magnetic nanogels for bio-applications

- 15:10 – 15:25 Special lecture SL-16
Muriel Lansalot (*France*)
 Modification of cellulose surfaces by cationic polymer latexes prepared by RAFT-mediated surfactant-free emulsion polymerization
- 15:25 – 15:40 Special lecture SL-17
Katarzyna Poltorak (*France*)
 Interfacial "click" reaction as method for preparing dextran-covered nanocapsules
- 15:40 – 15:55 Special lecture SL-18
Loïc Bugnicourt (*France*)
 New insights into lipid layer reorganization onto polysaccharide particles for biomedical applications

15:55 – 16:15

Coffee break

LECTURE SESSION 2 - Colloids for biosciences

Chaired by: Abdelhamid Elaissari (France)

- 16:15 – 16:40 Main lecture ML-10
Mitchell A. Winnik (*Canada*)
 Metal-containing polymers, microgels, and nanoparticles for bioanalytical applications
- 16:40 – 16:55 Special lecture SL-19
Irem Erel-Goktepe (*Turkey*)
 Ultra-thin films of polyzwitterionic micelles
- 16:55 – 17:10 Special lecture SL-20
Catherine L. Cooper (*United Kingdom*)
 Sugar functionalized polymer colloids for the removal of Cholera toxin from water
- 17:10 – 17:25 Special lecture SL-21
Stergios Pispas (*Greece*)
 Complexation of lysozyme with triblock polyelectrolyte micelles with different coronal structure

Wednesday, 23 July 2014

LECTURE SESSION 3 - Stimuli responsive colloids

Chaired by: Craig J. Hawker (USA)

- 8:30 – 9:00 Keynote lecture KL-06
Karen L. Wooley (USA)
Multi-functional, stimuli-responsive nanoparticle technologies derived from natural products: Innovative strategies for their construction and utilization as theranostic agents
- 9:00 – 9:25 Main lecture ML-11
Michael Cunningham (Canada)
Stimuli responsive polymer colloids using carbon dioxide as a trigger
- 9:25 – 9:40 Special lecture SL-22
Andrij Pich (Germany)
Light-triggered aqueous polymer nanogels
- 9:40 – 9:55 Special lecture SL-23
Emmanuelle Marie (France)
Trigger-responsive patterns to control attachment of proteins, particles, and cells
- 9:55 – 10:10 Special lecture SL-24
Efrosyni Themistou (United Kingdom)
Sterile pH-responsive block copolymer vesicles for protein intracellular delivery

10:10 – 10:30

Coffee break

LECTURE SESSION 3 - Stimuli responsive colloids

Chaired by: Peter A. Lovell (United Kingdom)

- 10:30 – 11:00 Keynote lecture KL-07
Matthias Ballauff (Germany)
Dynamics of thermosensitive core-shell colloids
- 11:00 – 11:25 Main lecture ML-12
Alex M. van Herk (Singapore)
Nanocapsules and nanobottles for controlled release: From micellar to vesicle polymerization

- 11:25 – 11:40 Special lecture SL-25
John Tsavalas (USA)
 Stimuli-responsive water-occluded heterogeneous particle morphologies: synthesis, characterization and implications
- 11:40 – 11:55 Special lecture SL-26
Hans Heuts (Netherlands)
 Functional hairy particles via poly(2-oxazoline)-stabilized emulsion polymerization
- 11:55 – 12:10 Special lecture SL-27
Maud Save (France)
 Synthesis of multi-responsive hybrid microgels by precipitation polymerization
- 12:10 – 12:25 Special lecture SL-28
Yaman Boluk (Canada)
 Temperature induced phase transition of cellulose nanocrystals grafted with poly(*N*-isopropylacrylamide)

12:25 – 14:00

Lunch

14:00

Social programme - guided tours in Prague

Thursday, 24 July 2014

LECTURE SESSION 4 – Industrial trends

Chaired by: José M. Asua (Spain)

- 8:30 – 9:00 Keynote lecture KL-08
Peter A. Lovell (United Kingdom)
 Design of water-born coatings using the soft-soft nanocomposite principle
- 9:00 – 9:15 Special lecture SL-29
Julien Parvole (France)
 Synthesis of boron-containing polymer nanoparticles via polymerization in dispersed media: towards tailor-made nanoparticles for laser-driven fusion reactions applications

9:15 – 9:30	Special lecture SL-30 Ines L. Hofmeister (<i>Germany</i>) pH-sensitive nanocapsules with barrier properties
9:30 – 9:45	Special lecture SL-31 Štěpán Podzimek (<i>Czech Republic</i>) A4F analysis of emulsion acrylic copolymers
9:45 – 10:00	Special lecture SL-32 Peter Krajnc (<i>Slovenia</i>) Emulsion templating- tool for preparation of interconnected macroporous materials

10:00 – 10:20 *Coffee break*

LECTURE SESSION 4 - Industrial trends

Chaired by: Stanisław Słomkowski (Poland)

10:20 – 10:50	Keynote lecture KL-09 Wolf-Dieter Hergeth (<i>Germany</i>) Dispersible powdered polymeric dispersions
10:50 – 11:20	Main lecture ML-13 Daniel Ou-Yang (<i>USA</i>) A new non-destructive method for measuring colloidal stability
11:20 – 11:35	Special lecture SL-33 Bernd Reck (<i>Germany</i>) Structure-property studies of self-crosslinking emulsion polymers
11:35 – 11:50	Special lecture SL-34 Julien Loste (<i>France</i>) Elaboration of transparent composite materials based on hybrid core@shell nanoparticles
11:50 – 12:05	Special lecture SL-35 Silfredo J. Bohorquez (<i>Netherlands</i>) High-throughput solution for optimizing pigment dispersing polymer colloids

- 12:05 – 12:20 Special lecture SL-36
Tao Chen (*People's Republic of China*)
Smart hybrid system of gold NPs immobilized PDMAEMA brushes for thermally adjustable catalysis
- 12:20 – 12:35 Special lecture SL-37
Hyoungh Jin Choi (*Republic of Korea*)
Core-shell structured microsphere suspensions and their electrorheology

12:35 – 14:00

Lunch

LECTURE SESSION 4 - Industrial trends

Chaired by: Jaromír Šňupárek (University of Pardubice)

- 14:00 – 14:30 Keynote lecture KL-10
Sebastian Seiffert (*Germany*)
Sensitive microgels as microcapsules and model colloids
- 14:30 – 14:55 Main lecture ML-14
Bedri Erdem (*USA*)
Advances in waterborne epoxy technologies for challenging coating applications
- 14:55 – 15:10 Special lecture SL-38
Pieter Samyn (*Germany*)
Processing of waterborne polymer nanoparticles as additives for pulp and paper products
- 15:10 – 15:25 Special lecture SL-39
Aneta Michna (*Poland*)
The formation and stability of PDADMAC monolayers on mica determined *in situ* by QCM-D and the electrokinetic measurements

LIST OF POSTERS

P-01

A. J. P. G. França, T. C. Chaparro, G. M. Alves, F. D'Agosto, M. Lansalot, E. Bourgeat-Lami, A. M. Santos (*Brazil*)

Synthesis of colloidal silica and use of RAFT polymerization as a potential method for the preparation of polymer-silica hybrid latexes

P-02

F. Delisavva, K. Prochazka, M. Uchman (*Czech Republic*)

Thermodynamic aspect of complex formation of 12-s-12 gemini surfactants and double hydrophilic block copolymers, effect of polymer molar mass and gemini spacer length

P-03

S. Mastour Tehrani, G. Guerin, M. Soleimani, M. A. Winnik (*Canada*)

Synthesis of thermally stable colloidal hydrogels

P-04

I. S. Monteiro, R. D. Silva, T. C. Chaparro, A. Barros-Timmons, F. D'Agosto, M. Lansalot, E. Bourgeat-Lami, A. M. dos Santos (*Brazil*)

Adsorption of macroRAFT agents onto montmorillonite clay platelets

P-05

T. C. Chaparro, E. Bourgeat-Lami, M. Lansalot, F. D'Agosto, A. M. Cenacchi Pereira, L. F. Boldrin, R. D. Silva, A. B. Timmons, L. Melro, P. S. S. Lacerda, **A. M. Santos** (*Brazil*)

Raft-mediated synthesis of polymer/laponite composite latexes

P-06

N. Shevchenko, **E. Tomsik**, N. Gospodinova, G. Pankova, B. Shabsels, A. Yakimansky, A. Koshkin, A. Sel'kin (*Czech Republic*)

Design of luminophore-containing monodisperse polymeric nanoparticles

P-07

T. Watanabe, T. Ono (*Japan*)

Monodisperse polylactide microcapsule formation through one-step microfluidic emulsification and solvent diffusion

P-08

B. Brunier, Y. Chevalier, E. Bourgeat-Lami, N. Sheibat-Othman (*France*)
Evaluation of Laponite partitioning in pickering emulsion polymerization

P-09

A. Bijlard, K. Landfester, A. Taden (*Germany*)
Interfacial epoxy-amine polyaddition for improved colloidal stability

P-10

G. Billuart, M. Lansalot, E. Bourgeat-Lami, V. Monteil (*France*)
Free radical emulsion copolymerization of ethylene under mild conditions

P-11

T. Arita (*Japan*)
Block polymer-coated functional ceramics nanofillers produced by sequential living radical polymerization with particles

P-12

A. M. Fernandes, R. Gracia, G. P. Leal, M. Paulis, D. Mecerreyes (*Spain*)
Simple route to prepare stable "liquid marbles" using poly(ionic liquids)

P-13

K. Li, M. Lansalot, E. Bourgeat-Lami (*France*)
Preparation of poly(methyl methacrylate)/Fe₂O₃ composite particles via Pickering emulsion polymerization using iron oxide as solid stabilizer

P-14

L. Delafresnaye, E. Bourgeat-Lami, M. Lansalot (*France*)
Synthesis of Laponite-armored P(Sty-co-MA) latexes by surfactant-free emulsion polymerization

P-15

M. Serkis, R. Poreba, M. Spirkova (*Czech Republic*)
Aqueous polyurethane nanoparticles based on polycarbonate macrodiol

P-16

P. Bober, B.A. Zasońska, D. Horák, N. Kazantseva, V. Babayan, J. Stejskal (*Czech Republic*)
Synthesis and characterization of polyaniline- γ -Fe₂O₃ colloidal composites

P-17

M. Kohri, H. Kohma, Y. Nannichi, K. Uradokoro, K. Hamada, T. Taniguchi, K. Kishikawa (*Japan*)

Functional polymer particles based on colorless polydopamine coating

P-18

O. Lapteva, O. Zamyshlyayeva, M. Batenkin, Y. Bykova (*Russian Federation*)

Synthesis and study of the behavior at the different interfaces of block amphiphilic copolymers based on poly-*N*-vinylpyrrolidone

P-19

L. M. Forero, **K. Poltorak**, J.-L. Six, J. Babin, A. Durand, C. Nouvel (*France*)

Dextran based transurfs: an interesting tool to synthesize nanocapsules with controlled morphology

P-20

J. Terol, M. Ferrándiz, O. Fenollar, V. Fombuen, T. Boronat, **R. Balart** (*Spain*)

Development of moisture sensitive microparticles based by spray-drying colloidal solutions of chitosan and copper sulphate

P-21

T. Tsuneyoshi, T. Ono (*Japan*)

Preparation of metal / polymer composite particles using electroless-deposition on polystyrene beads

P-22

H. Saade, R. G. López (*Mexico*)

Latexes of poly(ethyl cyanoacrylate) nanoparticles with high-solids content

P-23

D. Nagao, K. Shibuya, H. Ishii, **M. Konno** (*Japan*)

Environmentally adaptable synthesis of micron-sized, monodisperse polymer particles in soap-free emulsion polymerization

P-24

D. Nagao, A. Okada, H. Ishii, M. Konno (*Japan*)

Synthesis of hollow particles containing a movable inner core for reconfiguration of cores by external fields

P-25

R. Yu, K. Tauer (*Germany*)

Hierarchically porous silica composites via a complex colloidal reaction sequence

P-26

C. Wei, K. Tauer (*Germany*)

Polymerization of single monomer droplets

P-27

W. García, J. C. de la Cal, J. M. Asua (*Spain*)

Comparison of oligomeric surfactants with random and block structure as stabilizers in miniemulsion polymerization

P-28

F. Boscan, M. Paulis, M. J. Barandiaran (*Spain*)

Emulsion polymerization of superhydrophobic monomers by combination of emulsifiers of different hydrophobicity

P-29

J. Koubková, D. Horák (*Czech Republic*)

Zwitterion-grafted poly(glycidyl methacrylate) microspheres using RAFT polymerization

P-30

Z. W. Ouyang, E. C. Chen, **T. M. Wu** (*Taiwan*)

Preparation and characterization of electroactive polyvinylidene fluoride/iron oxide nanocomposites

P-31

R. D. Silva, I. S. Monteiro, R. S. Hardt, T. C. Chaparro, A. Barros-Timmons, A. C. Pereira, M. Lansalot, F. D'Agosto, E. Bourgeat-Lami, A. M. dos Santos (*Brazil*)

Synthesis of polymer/montmorillonite hybrid latexes by emulsion polymerization using hydrophilic macroRAFT agents

P-32

A. Długa, H. Kaczmarek (*Poland*)

Synthesis and characterization of bacterial cellulose/poly(vinyl alcohol) composites

P-33

S. O. Pereira, T. Trindade, A. Barros-Timmons (*Portugal*)

Biotinylation of gold nanoparticles mediated by RAFT polymerization

P-34

A. Chebil, **S. M. Soliman**, M. Léonard, C. Nouvel, J.-L. Six, A. Durand (*France*)

Elaboration of polysaccharide-covered polyester nanoparticles for the encapsulation and release of polyphenolic molecules

P-35

H. Macková, F. Oukacine, Z. Plichta, M. Hrubý, J. Kučka, M. Taverna, D. Horák (*Czech Republic*)

Preparation and characterization of radioiodine scavenger based on poly(glycidyl methacrylate)/silver nanocomposite microspheres

P-36

H. Ishii, M. Ishii, D. Nagao, M. Konno (*Japan*)

Monodisperse polymer nanoparticle production in aqueous media with sub-millimolar surfactants

P-37

M. Corea, R. Santillán, J. P.-E. Grolier, J. M. del Río (*Mexico*)

Synthesis and sensitive evaluation of polymeric particles with gradient concentration of carboxylic groups

P-38

Š. Trachtová, A. Španová, D. Horák, B. Rittich (*Czech Republic*)

The study of magnetic P(HEMA-co-GMA) and P(GMA) microspheres using real-time PCR

P-39

P. Żeliszewska, A. Bratek-Skicki, Z. Adamczyk (*Poland*)

Human fibrinogen adsorption on latex particles at pH 7.4 studied by electrophoretic mobility and AFM measurements

P-40

A. López, M. Ferrándiz, L. Sánchez-Nacher, D. García-Sanoguera, **R. Balart** (*Spain*)

Encapsulation of cedarwood essential oil into alginate microparticles with bioactive properties

P-41

S. Grama, R. Stoika, D. Horák (*Czech Republic*)

Biocompatible fluorescent poly(glycidyl methacrylate)-silica microspheres for biological applications

P-42

A. M. Tamaddon, A. Salah, F. Farjadian (*Iran*)

Spermine end-functionalized, polyamidoamine dendronized magnetic nanoparticles as a multivalent delivery system

P-43

S. S. Abolmaali, A. M. Tamaddon, R. Dinarvand (*Iran*)

Crosslinked poly ethyleneimine ionomer-Zn²⁺ complexes for delivery of methotrexate

P-44

B. A. Zasoňska, J. Tulinská, D. Horák, A. Lišková, M. Kuricová, M. Bartušová (*Czech Republic*)

Immunotoxicity of functionalized core-shell maghemite/porous silica nanoparticles

P-45

V. Patsula, D. Horák, J. Tulinská, A. Lišková, M. Kuricová (*Czech Republic*)

Monodisperse superparamagnetic nanoparticles for biomedical applications

P-46

U. Kostiv, D. Horák, M. Šlouf (*Czech Republic*)

Upconverting nanoparticles for biomedical applications

P-47

L. Ferhatovic Hamzic, M. Lovric, I. Pongrac, A. Bozza, S. Casarosa,
S. Gajovic (*Croatia*)

Combination of biomaterials and stem cells for brain transplantation after ischemic injury in mouse

P-48

I. Zhitomirsky, F. Sun (*Canada*)

Electrophoretic deposition of biopolymers and composites from colloidal solutions

P-49

L. B. Peres, L. B. Peres, O. H. Gonçalves, T. J. Faria, A. Báfica,
M. V. Almeida, P. H. H. Araújo, **C. Sayer** (*Brazil*)

Incorporation of an isoniazid analogue in PLLA and blend PLLA/PMMA nanoparticles

P-50

W. C. Tang, Y. S. Huang, I. M. Chu (*Taiwan*)

A totally-biodegradable colloidal micelle composed of γ -poly (glutamic acid)-graft-poly (L-lactide) copolymer for drug-delivery

P-51

J. Carlstedt, J. Wojtasz, P. Fyhr, V. Kocherbitov (*Sweden*)

The phase diagram of acid hydrolyzed starch

P-52

K. S. Yun, L. L. Zhong (*Republic of Korea*)

ZnO nanoparticles modified graphene oxide with enhanced electrochemistry property

P-53

H. Jin, M. Cunningham (*Canada*)

The comprehensive role of DEAEMA in CO₂-switchable latex system

P-54

A. Michna, M. Morga, Z. Adamczyk (*Poland*)

Deposition kinetics of silver nanoparticles and polystyrene microspheres on polyelectrolyte covered surfaces

P-55

K. Z. Donato, R. K. Donato, L. Matějka, H. S. Schrekker, R. S. Mauler
(*Brazil*)

Ionic liquids as morphology drivers in sol-gel silica systems

P-56

B. Angelov, A. Angelova, S. K. Filippov, M. Drechsler, P. Štěpánek,
S. Lesieur (*Czech Republic*)

Millisecond kinetics of formation of protein/lipid nanoparticulate complexes

P-57

M. Sadowska, M. Nattich-Rak, Z. Adamczyk (*Poland*)

Mechanism of nanoparticle deposition on colloid particles

P-58

M. Nattich-Rak, M. Sadowska, Z. Adamczyk, M. Morga, M. Oćwieja
(*Poland*)

Hematite nanoparticle monolayers: characterization by colloid deposition

P-59

S. K. Filippov, B. Verbraeken, A. Bogomolova, N. Matushkin, P. Konarev,
A. Radulescu, P. Štěpánek, R. Hoogenboom (*Czech Republic*)

Comparative studies of internal structure of micelles composed of block and gradient poly(2-oxazolines) by DLS, SAXS and SANS

P-60

J. Machotová, Š. Podzimek, J. Šňupárek, M. Večeřa (*Czech Republic*)

Asymmetric flow field-flow fractionation for characterization of molecular structure of acrylic emulsion copolymers

P-61

I. Fortelný, **J. Jůza** (*Czech Republic*)

Influence of polydispersity on flow induced coalescence

P-62

A. Siupa, P. Carnell, B. Carr (*United Kingdom*)

Nanoparticle tracking analysis (NTA) characterisation of polymer colloids

P-63

R. K. Donato, M. Lavorgna, P. Musto, K. Z. Donato, H. S. Schrekker,
A. Jäger, L. Matějka (*Brazil*)

Ether-functionalized ionic liquids applied to the sol-gel process

P-64

R. K. Donato, A. C. Kleinschmidt, H. S. Schrekker, M. Perchacz, H. Beneš,
S. C. Amico (*Brazil*)

Opening multiwalled carbon nanotubes in ionic liquid media

P-65

A. Bogomolova, S. K. Filippov, S. Keller, H. Macková, M. Hrubý,
P. Štěpánek (*Czech Republic*)

Interaction of pH-sensitive polyamino acids and nonionic surfactant
Brij98: hydrophobicity vs hydrogen bonds

P-66

M. Kasuya, T. Taniguchi, M. Kohri, K. Kishikawa, T. Nakahira (*Japan*)

Preparation of polymer latex particles carrying salt-responsive fluorescent
graft chains

P-67

C. G. Venturini, S. Petrova, A. Jäger, E. Jäger, P. Černoč, P. Štěpánek
(*Czech Republic*)

Thermoresponsive behavior of nanogels based on the new amphiphilic
PEO-*b*-PETox-*b*-PCL triblock copolymer

P-68

V. Kolesov, H.-A. Klok (*Switzerland*)

Stimuli-responsive (bio)hybrid peptide-polymer microgels

P-69

E. Marie, F. Mousseau, J. Malinge, D. Zanchi, C. Tribet (*France*)

Thermally-driven reversible aggregation of colloidal particles

P-70

O. Borisov, L. Billon, O. Borisova, P. Štěpánek, Z. Bakaeva, E. Zhulina
(*France*)

Stimuli-responsive nano-structures of amphiphilic ionic block- and
gradient copolymers

P-71

P. Höhne, K. Tauer (*Germany*)

How much weighs the swelling pressure

P-72

J. Adams, K. Pohl, D. Johannsmann (*Germany*)

On-line determination of FRET efficiency in drying latex films: correlation of interdiffusion and particle deformation

P-73

Z. Aguirreurreta, J. C. de la Cal, J. R. Leiza (*Spain*)

Improving the performance of high solids content acrylic latexes using polymerizable surfactants

P-74

A. B. López, J. C. de la Cal, J. M. Asua (*Spain*)

Waterborne fluoropolymer dispersions for hydrophobic coatings

P-75

J. Juaristi, P.-E. Dufils, A. Veneroni, Y. Vanderveken, J. M. Asua (*Spain*)

Morphology and film forming properties of acrylic hybrid coatings

P-76

T. Hájková, A. Kalendová (*Czech Republic*)

Examination of the properties of polymeric films containing TiO_2 and CaTiO_3 particles in dependence on pigment volume concentration and surface treatment with conductive polymers

P-77

M. Kohl, A. Kalendová (*Czech Republic*)

Preparation, description and comparison of different polyaniline types and their use in protective organic coatings

P-78

M. Griesing, W. Pauer, H.-U. Moritz, W.-D. Hergeth (*Germany*)

Effects of anticaking agents on the morphology of polymer dispersion droplet dried in an acoustic levitator

P-79

N. Peřinka, **M. Hajná**, T. Syrový, J. Stejskal (*Czech Republic*)

Polyaniline films produced *in-situ* during the dispersion polymerization of aniline

P-80

W. J. Soer, J. Scheerder, G. Satgurunathan, Y. Liu, V. Rodin, J. L. Keddie (*Netherlands*)

Water transport through polymer films: comparison of solution, emulsion and secondary emulsion polymers

P-81

J. Urrutia, J. M. Asua (*Spain*)

Particulate fouling in emulsion polymerization reactors

P-82

I. Zhitomirsky, K. Shi (*Canada*)

Electrophoretic deposition of polypyrrole and composites from colloidal suspensions for electrodes of electrochemical supercapacitors

P-83

S. Bloembergen, N. M. B. Smeets (*U.S.A.*)

Advances in biobased latex emulsions

P-84

Y. R. Uhm, J. Kim, K. J. Son (*Republic of Korea*)

In situ fabrication of polyethylene coated nanopowder and its HDPE composite for radiation shielding