INSTITUTE OF MACROMOLECULAR CHEMISTRY
ACADEMY OF SCIENCES OF THE CZECH REPUBLIC

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

48th Microsymposium of PMM

POLYMER COLLOIDS: FROM DESIGN TO BIOMEDICAL AND INDUSTRIAL APPLICATIONS

PRAGUE, 20-24 JULY 2008

PROGRAMME BOOKLET

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48th Microsymposium of PMM

under the auspices of the

INTERNATIONAL UNION
OF PURE AND APPLIED CHEMISTRY

JUNG-IL JIN
President of the Polymer Division

Organized by the

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ACADEMY OF SCIENCES OF THE CZECH REPUBLIC

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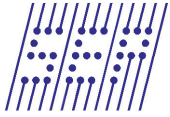

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http://www.synpo.cz/

GENERAL INFORMATION

REGISTRATION

On-site registration of participants takes place on Sunday, 20 July, from 16:00 to 19:00 in the Institute of Macromolecular Chemistry, Praha 6, Heyrovského nám. 2, and continues the next day from 8:00. The Microsymposium Office operates on 21–24 July (Monday through Thursday) from 8:00 to 12:30 and (except Wednesday) from 13:30 to 16:00.

All participants must register. Only persons wearing name badges are entitled to enter the lecture room in the Institute.

Registration fees
On-site cash payment of the registration fee is considered as a late payment. The PMM Secretariat accepts EC/MC, EDC/Maestro and VISA cards at the Registration desk.

PRESENTATION OF CONTRIBUTIONS

Sessions
All sessions will be held in the Institute of Macromolecular Chemistry of the Academy of Sciences of the Czech Republic, Praha 6, Heyrovského nám. 2.

Language
English is the working language of the Microsymposium.

Keynote lectures
The presentation time for each keynote lecture is 30 min, including discussion.

Main lectures
The presentation time for each main lecture is 25 min, including discussion.

Special lectures
The presentation time for special lectures is 15 min, including discussion.

Poster communications
Poster sessions will take place on Monday and Tuesday. Posters should be mounted in the respective day after 15:00 and removed after the session. Beer/soft drinks will be available.

PRESENTATION FACILITIES

Data-Video-Projector (XGA) connected to a local PC will be available. Following media can be used for transfer of data: FDD 3.5", CD, DVD-R, USB-flash. Other supported inputs are *via*: PC MCIA, IEEE 1394 ports, 4-in-1 Card Reader-Multimedia Card, Secure Digital, Memory Stick, Smart Media, or from VHS. No connection of notebooks or laptops will be possible.

PUBLICATION OF PAPERS

The authors are encouraged to publish their contributions as full papers in Macromolecular Symposia. Twenty to thirty of the microsymposium proceedings (length is limited to 10 pages) will be published. Only state-of-the-art research articles after review will be considered for publication. The manuscripts should be submitted through manuscriptXpress http://conferences.wiley-vch.de/v3/index.php. The authors use the standard template – please follow Author Guidelines http://www3.interscience.wiley.com/journal/60500249/home/2265_authors.html. The deadline for submission is July 31, 2008.

REFRESHMENTS AND LUNCHES

Coffee, tea, and soft drinks will be served during breaks of the lecture and poster sessions.

Lunch-buffet will be open from Monday through Thursday from 12:00 to 14:00 in the refectory of the Institute.

Refreshments and lunches are included in the registration fee.

SOCIAL EVENTS

Sunday, 20 July
16:00 – 19:00 Registration, refreshment

Monday, 21 July
19:00 – 23:00 Welcome reception

A welcome dinner takes place in the former farmstead "Ladronka", open to all participants of the microsymposium from 19:00 to 23:00. You can play bowling or have a dance in the open air (see the map).

Tuesday, 22 July

Evening is free, go and explore Prague


VOKOVICE
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STARÉ MĚSTO
MALÁ STRANA
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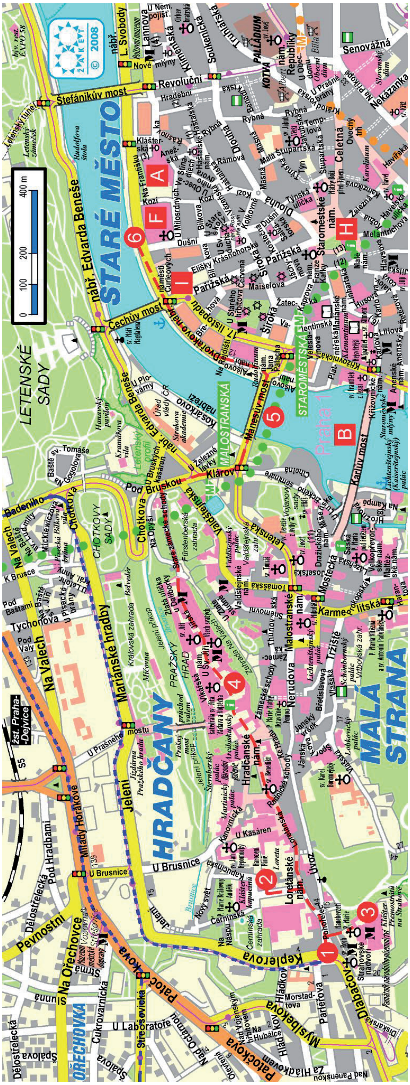
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Čechův most
Mánesův most
Karlův most
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Jelení
Na Valech
Milady Horákové
Patočkova
Keplerova
Pevnostní
Dělostřelecká
Na Ořechovce
U Brusnice
Pod Bruskou
Chotkova
Valdštejnská
Letenská
Nerudova
Karmelitská
Pařížská
Revoluční
Celetná
Senovážná
Nekázanka
Klárov
Loretánské nám.
Hradčanské nám.
Malostranské nám.
Staroměstské nám.

←MAP 1 ↑MAP 2

Wednesday, 23 July

14:00 – 23:00 Excursion

We will take an interesting walking tour of the Prague Castle and end up on a minicruise on the Vltava River (see the maps 1 and 2).

14:00 A trip with historic tram from the Institute to the Prague Castle area.

14:30 – 18:00 Participants will be divided into several groups accompanied by professional guides. Some groups will visit the 300-year-old monastery "Loreta", one of the most famous places of pilgrimage in the Czech Republic. We will see the Loreta jewels with a unique collection of precious gifts for the Holy Virgin of Loreta and Prague Loreto Santa Casa. We can hear a famous carillon every hour.

Other groups will visit the Royal Canonry of Premonstratensians at Strahov, which is famous for its libraries. The libraries were founded in 1143 in order to take care of scientific and theological books. The book collection is open to readers. All the groups will visit the Prague Castle. We will explore the beautiful Renaissance Vladislav Hall, the scene of enthronement celebrations and banquets, tournaments and markets with artistic and luxurious goods. We will also explore the oldest cathedral in the Czech Republic, St. Vitus Cathedral, and continue in the Golden Lane. Then, we will go down to the river.

19:00 – 22:00 In this evening, we will undertake a cruise close to the Charles Bridge with sunset, dinner and music. All that with Prague panorama.

Thursday, 24 July

16:15 Farewell toast

After the last lecture, all participants are invited to a farewell drink in the entrance hall of the Institute.

MAPS 1,2

0: Conference venue, start of the historic tram trip;
1: Pohořelec, getting off the tram, start of the walking tour;
2: Prague "Loreto";
3: Strahov Canonry;
4: Prague Castle; **5:** Mánes Bridge;
6: Na Františku embankment, ship boarding.

MAP 2

Central area in a more detail:
A: St. Agnes Monastery;
B: Charles Bridge;
F: Na Františku Hospital;
H: Old Town City Hall;
I: Intercontinental Hotel.

TRANSPORT

Public transport

In Prague, an integrated transport system (underground Metro, trams, and buses) operates without conductors. Tickets must be purchased in advance and stamped inside tram or bus, or before passing the gates of the Metro.

Metro stations are equipped with ticket machines. Tickets for 18 Kč for a single 20-min journey by tram or bus, or five-stop journey by Metro as well as transfer tickets for 26 Kč for a 75-min journey by all means of transport and 24-hour network ticket for 100 Kč are on sale at the airport, at railway stations, newspaper stands and tobacco shops, at hotel reception desks, etc. The Metro runs from 05:00 till midnight.

Taxi

The fare is 28 Kč (maximum) per kilometre and 40 Kč (maximum) is the boarding fee within the city boundaries (2008 prices). We recommend checking the fare before entering a taxi.

Air and railway transport

The international airport Praha is situated about 20 km from the city centre (9 km from the Institute). To reach the airport, we recommend bus No. 179 from the Institute, bus No. 119 for connection from the "Dejvická" Metro station (line A).

Express bus line AE connects the airport with the Metro station "Dejvická" and "Nádraží Holešovice" (railway station) in 30-min intervals. Bus fare: 45 Kč (30 Kč from Dejvická).

Buses operated by the CEDAZ Co. run to the airport from the city terminal near the Metro station "Náměstí Republiky" (line B) in 30-min intervals. Bus fare: 120 Kč.

International trains arrive at and leave from the following stations: Praha, hlavní nádraží (Main Station; Metro line C), Praha – Holešovice (Metro line C, "Nádraží Holešovice"), and Praha – Smíchov (Metro line B, "Smíchovské nádraží").

SESSION TIMETABLE

Monday, 21 July

9:00 **OPENING**

Opening addresses

F. Rypáček
Director of the Institute of Macromolecular Chemistry
D. Horák
Microsymposium chairman

LECTURE SESSION 1 Chair: M.A. Winnik

9:10 **OPENING LECTURE**

Keynote lecture KL 01
M.S. El-Aasser (*USA*)
Synthesis of monodisperse microspheres by dispersion and seeded dispersion polymerization

9:45 **Keynote lecture KL 02**
K. Tauer, N. Weber (*Germany*)
Heterophase polymerization as synthetic tool in polymer chemistry

10:15 - 10:40 *Coffee break*

LECTURE SESSION 2 Chair: K. Tauer

10:40 **Keynote lecture KL 03**
R.J. Blanchard, N.R. Cameron, O. Lagrille, **P.A. Lovell,**
N.R. Suliman, B. Thongnuanchan (*UK*)
New nitroxides designed for controlled radical miniemulsion polymerization

11:10 **Main lecture ML 01**
H. Maehata, C. Buragina, B. Keoshkerian, R.W. Simms,
M.F. Cunningham (*Canada*)
Compartmentalization in heterogeneous living/controlled radical polymerizations

11:35 **Special lecture SL 01**
J. Tonnar, E. Pouget, **P. Lacroix-Desmazes**, B. Boutevin (*France*)
Synthesis of functional triblock polymer colloids by controlled/living radical photopolymerization in miniemulsion

Monday, 21 July

11:50 **Special lecture SL 02**
N.M.B. Smeets, J.P.A. Heuts, J. Meuldijk, M.F. Cunningham, A.M. van Herk (*Netherlands*)
Molecular weight control in emulsion polymerization by catalytic chain transfer

12:05 **Main lecture ML 02**
M. Okubo (*Japan*)
Control of surface morphology of polymer particles for biomedical applications

12:30 – 14:00 *Lunch*

LECTURE SESSION 3 Chair: H. Kawaguchi

14:00 **Keynote lecture KL 04**
K. Kataoka (*Japan*)
Supramolecular assemblies of smart block copolymers as nanocarriers for gene and drug delivery: Challenge to intracellular nanomedicine

14:30 **Main lecture ML 03**
Y. Nagasaki (*Japan*)
Material design for functional bionanoparticles

14:55 **Special lecture SL 03**
B.S. Hawkett, N. Jain, Y. Wang, G.G. Warr, S. Jones (*Australia*)
Superparamagnetic nanoparticles in the hyperthermia treatment of cancer and other medical applications

15:10 **Special lecture SL 04**
A. Shapira, G. Markman, Y.G. Assaraf, Y.D. Livney (*Israel*)
β-Casein micelles as nanodelivery vehicles for chemotherapeutic drugs

15:25 – 15:45 *Coffee break*

Monday, 21 July

LECTURE SESSION 4 Chair: M.F. Cunningham

15:45 Main lecture ML 04
M. Müller, W. Ouyang, V. Starchenko, B. Keßler (*Germany*)
Polyelectrolyte complex nanoparticles with narrow size distribution: Preparation and protein binding

16:10 Special lecture SL 05
S. Argentiere, L. Blasi, G. Ciccarella, G. Barbarella, R. Cingolani, G.P. Gigli (*Italy*)
Poly(acrylic acid) nanogels: Loading-release behaviour with oligothiophene-labeled bovine serum albumin

16:25 Special lecture SL 06
A. Zaichenko, N. Mitina, O. Shevchuk (*Ukraine*)
Kinetics and topochemistry of oligoperoxide-based synthesis of functional polymeric and hybrid colloids and nanoparticles for biomedical application

16:40 Special lecture SL 07
R. Stoika, N. Mitina, A. Zaichenko, K. Rayevska, L. Izyumova, N. Kashchak, O. Klyuchivska, R. Lesyk, V. Stadnik, V. Vlizlo (*Ukraine*)
Novel functional oligoperoxide-based carriers of block and branched structures and water drug-delivery systems for tumor targeting and treatment

17:00 – 18:30 POSTER SESSION I
Design and Preparation of Polymer Colloids

PC 01 – PC 47

Tuesday, 22 July

LECTURE SESSION 5 Chair: A. Elaissari

08:30 **Keynote lecture KL 05**
K.Y. van Berkel, A.M. Mynar**, C.J. Hawker** (*USA*)
Construction of hybrid inorganic-organic nanoparticles based on miniemulsion polymerization

09:00 **Main lecture ML 05**
K.L. Wooley (*USA*)
Polymer chemistry as applied to the emerging field of nanotechnology: With an emphasis on devices for nanomedicine

09:25 **Special lecture SL 08**
H.D.H. Stöver, M.A.J. Mazumder, N. Burke, F. Shen, M. Potter (*Canada*)
Self-crosslinkable polyelectrolytes for cell immuno-isolation

09:40 **Special lecture SL 09**
W. Norde, S. Lindhoud, M. Danial, R. de Vries, M. Cohen Stuart (*Netherlands*)
Biofunctionalized complex coacervate core micelles

09:55 **Special lecture SL 10**
C. Houga., Y. Gnanou, D. Taton, S. Lecommandoux, R. Borsali, **J.F Le Meins** (*France*)
Polysaccharide-based block copolymers: Synthesis and self-assembly

10:10 – 10:30 *Coffee break*

LECTURE SESSION 6 Chair: C.J. Hawker

10:30 **Main lecture ML 06**
A. Elaissari (*France*)
Colloidal particles in nanobiotechnologies for biomedical diagnostic applications

10:55 **Main lecture ML 07**
A.M. van Herk, H. Heuts (*Netherlands*)
Synthesis of multicompartment nanoparticles

11:20 **Special lecture SL 11**
T. Basinska, S. Krolik, S. Slomkowski (*Poland*)
Hydrophilic microspheres containing α-*tert*-butoxy-ω-vinylbenzyl-polyglycidol for immunodiagnostics: Synthesis, properties and biomedical applications

Tuesday, 22 July

11:35 **Special lecture SL 12**
C. Vauthier, D. Labarre (*France*)
Polymer colloids as drug carriers: Design strategies for intravenous administration

11:50 **Special lecture SL 13**
A. Imaz, **J. Forcada** (*Spain*)
Biomedical uses of biocompatible temperature-sensitive microgels

12:05 **Special lecture SL 14**
S. Lecommandoux, C. Schatz, J.F. Le Meins (*France*)
Stimuli-responsive polypeptide-based biomimetic nanocarriers

12:20 – 14:00 *Lunch*

LECTURE SESSION 7 Chair: K.L. Wooley

14:00 **Keynote lecture KL 06**
G. Delaittre, M. Save, J. Rieger, **B. Charleux** (*France*)
Application of RAFT or nitroxide-mediated aqueous dispersion polymerization to the design of thermosensitive nanohydrogels

14:30 **Main lecture ML 08**
G.G. Qi, C.W. Jones, **F.J. Schork** (*USA*)
RAFT polymerization in inverse miniemulsion: A new route to water-soluble polymers

14:55 **Special lecture SL 15**
C. Lv, Z. Li, D. Li, J. Yu, J. Chen, M. Pang, Z. Yao, **K. Cao** (*P.R. China*)
Preparation and characterization of uniform micron-size polystyrene particles with poly(vinylpyrrolidone) brushes by surface-photoinitiated polymerization in the presence of a free RAFT agent

15:10 **Special lecture SL 16**
C. Airaud, E. Ibarboure, V. Héroguez, Y. Gnanou (*France*)
Morphology study of polymer hybrid particles prepared using tandem ROMP and ATRP in miniemulsion

15:25 – 15:45 *Coffee break*

Tuesday, 22 July

LECTURE SESSION 8 Chair: P.A. Lovell

15:45 **Main lecture ML 09**
U. El-Jaby, M. Cunningham, **T. McKenna**, E. Bourgeat-Lami (*Canada*)
Emulsification for latex production: Rotor stators, static mixers, nanocomposites and future directions

16:10 **Special lecture SL 17**
S. Sajjadi, F. Jahanzad, B.W. Brooks (*UK*)
Miniemulsions by phase inversion emulsification

16:40 **Special lecture SL 18**
G. Diaconu, A. Bonefond, M. Paulis, **J.R. Leiza** (*Spain*)
Synthesis of waterborne polymer/clay nanocomposites by miniemulsion polymerization using cationic reactive oligomers

16:25 **Special lecture SL 19**
D.J. Adams, T. He, M.F. Butler, C.T. Yeoh, A.I. Cooper, S.P. Rannard (*UK*)
Direct synthesis of anisotropic polymer nanoparticles by ATRP

17:00 – 18:30 POSTER SESSION II
Characterization, Bio- and Other Applications

PC 48 – PC 96

Wednesday, 23 July

LECTURE SESSION 9 Chair: W.D. Hergeth

08:30 **Keynote lecture KL 07**
A.N.F. Peck, **J.M. Asua** (*Spain*)
Alkali-soluble resins stabilized miniemulsion polymerization

09:00 **Special lecture SL 20**
A. Lopez, J.M. Asua, E. Degrandi, C. Creton, R. Udagama, E. Bourgeat-Lami, T. McKenna, E. Canetta, J.L. Keddie (*Spain*)
Waterborne polyurethane-acrylic hybrid nanoparticles by miniemulsion polymerization: Design and production of nanocomposite materials

09:15 **Special lecture SL 21**
E. Degrandi, C. Creton, A. Lopez, J.M. Asua, R. Udagama, E. Bourgeat-Lami, T. McKenna, E. Canetta, J.L. Keddie (*France*)
Waterborne polyurethane-acrylic hybrid nanoparticles by miniemulsion polymerization: Mechanical properties of nanostructured films

09:30 **Special lecture SL 22**
M.D. Soucek, E. Pedraza (*USA*)
Control of functional site location for thermosetting latexes: The effect of bimodal particle distribution

09:45 **Special lecture SL 23**
E. Kostansek (*USA*)
Surfactant and electrolyte effects on latex depletion flocculation by thickeners

10:00 **Special lecture SL 24**
S. Slomkowski, E. Przerwa, S. Sosnowski (*Poland*)
Controlled formation of polystyrene (core)-polyglycidol (shell) microsphere assemblies on homogeneously modified mica surfaces

10:15 - 10:35 *Coffee break*

LECTURE SESSION 10 Chair: J.M. Asua

10:35 **Main lecture ML 10**
W.D. Hergeth (*Germany*)
Polymer colloids in cementitious applications

Wednesday, 23 July

11:00 **Special lecture SL 25**
S. Boutti, E. Bourgeat-Lami, I. Dubois-Brugger (*France*)
Potential applications of polymer colloids in cement industry and influence of low fractions of latexes on some properties of cement mortars

11:15 **Special lecture SL 26**
S.M. Negim**, M.M.H. Ayoub** (*Egypt*)
Synthesis and evaluation of water-soluble polymer for applications in concrete

11:30 **Special lecture SL 27**
B. Erdem, D. Bhattacherjee, J. Argyropoulos, C. Diehl, R. Drumright (*USA*)
Aqueous polyurethane dispersions

11:45 **Special lecture SL 28**
R.J. Leyrer, S. Altmann, W. Wohlleben (*Germany*)
Mechano-optical brilliant polymer colours - nanotechnology paves the way

12:00 **Special lecture SL 29**
J.G. Tsavalas, J.K. Nguyen, M. Kacperski, D.C. Sundberg (*USA*)
Stimuli-responsive self-healing coatings utilizing a two-part microcapsule approach

12:15 **Special lecture SL 30**
G. Carrot, F. Gal, H. Perez (*France*)
Nanoscale hybrid objects: A smart combination of chemistry and SANS

12:20 Announcement of Best Poster Prize Winner

12:25 – 14:00 *Lunch*

14:00 – 23:00 *Excursion*

Thursday, 24 July

LECTURE SESSION 11 Chair: F.J. Schork

08:30 **Keynote lecture KL 08**
H. Kawaguchi, S. Hattori, T. Sato, S. Tsuji, M. Hara, Y. Horie, T. Okamoto (*Japan*)
Microgels prepared by molecular assembling

09:00 **Main lecture ML 11**
R. Vyhnalkova, A. Eisenberg, **T.G.M. van de Ven** (*Canada*)
Loading and release of biocides in block-copolymer micelles

09:25 **Special lecture SL 31**
M.T. Arruda, A. Guimarães, A. Shiozer, F. Zanella, M. Cella, **M. do Amaral** (*Brazil*)
Towards enhanced fragrance sensitivity – encapsulation of odorant chemicals by miniemulsion polymerization

09:40 **Special lecture SL 32**
T. Nisisako (*Japan*)
Microfluid droplet generators for the synthesis of monodisperse polymeric microparticles

09:55 **Special lecture SL 33**
P.A.G. Cormack (*UK*)
Hypercrosslinked polymer microspheres

10:10 - 10:30 *Coffee break*

LECTURE SESSION 12 Chair: A.M. van Herk

10:30 **Main lecture ML 12**
S. Su, M.M. Ali, C.D.M. Filipe, Y. Li, **R. Pelton** (*Canada*)
Microgel-based inks for paper-supported biosensing applications

10:55 **Main lecture ML 13**
M. Ballauff (*Germany*)
Interaction of proteins with charged colloids

11:20 **Special lecture SL 34**
J.J. Spitzer (*USA*)
Some unresolved issues with the DLVO theory of stability of charged nano-particles

Thursday, 24 July

11:35 **Special lecture SL 35**
S. Hietala, K. Kalliomäki, M. Nuopponen, H. Tenhu (*Finland*)
Thermally responsive associative water-soluble polymers based on tacticity control

11:50 **Special lecture SL 36**
T. Kotsokechagia, P. De Leonardis, **F. Cellesi**, N. Tirelli (*UK*)
Surface functionalization of inorganic oxide nanoparticles

12:05 **Special lecture SL 37**
O. Borisov, A. Polotsky, P. Košovan, E. Zhulina, T. Birshtein, K. Procházka, M. Ballauff, F.A.M. Leermakers (*France*)
Star-branched polyelectrolytes as soft, pH- and thermoresponsive colloids

12:30 - 14:00 *Lunch*

LECTURE SESSION 13 Chair: M.S. El-Aasser

14:00 **Keynote lecture KL 09**
M.A. Winnik (*Canada*)
The early stages of latex film formation

14:30 **Special lecture SL 38**
K.I. Dragnevski, A.M. Donald (*UK*)
Latex film formation in environmental scanning electron microscope

14:45 **Main lecture ML 14**
D. Urban, C. Beyers, M. Gerst (*Germany*)
Advanced polymer design for adhesives

15:10 **Special lecture SL 39**
J.L. Keddie, T. Wang, A.B. Dalton, C. Creton, J.M. Asua (*UK*)
Applications of colloidal nanocomposites in pressure-sensitive adhesives

15:25 **Special lecture SL 40**
J. Marchal, F. Deplace, M. Rabjohns, A. Foster, P.A. Lovell, C. Creton (*France*)
Effect of crosslink distribution on deformation and adhesive properties of waterborne core-shell PSA

Thursday, 24 July

15:40 **Conclusion**

Keynote lecture KL 10
R.M. Fitch (*USA*)
Expanding the envelope

16:15 *Farewell drink*

KEYNOTE LECTURES

KL 01 OPENING
M.S. El-Aasser (*USA*)
Synthesis of monodisperse microspheres by dispersion and seeded dispersion polymerization

KL 02 **K. Tauer**, N. Weber (*Germany*)
Heterophase polymerization as synthetic tool in polymer chemistry

KL 03 R.J. Blanchard, N.R. Cameron, O. Lagrille, **P.A. Lovell,** N.R. Suliman, B. Thongnuanchan (*UK*)
New nitroxides designed for controlled radical miniemulsion polymerization

KL 04 **K. Kataoka** (*Japan*)
Supramolecular assemblies of smart block copolymers as nanocarriers for gene and drug delivery: Challenge to intracellular nanomedicine

KL 05 K.Y. van Berkel, A.M. Mynar**, C.J. Hawker** (*USA*)
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KL 06 G. Delaittre, M. Save, J. Rieger, **B. Charleux** (*France*)
Application of RAFT or nitroxide-mediated aqueous dispersion polymerization to the design of thermosensitive nanohydrogels

KL 07 A.N.F. Peck, **J.M. Asua** (*Spain*)
Alkali-soluble resins stabilized miniemulsion polymerization

KL 08 **H. Kawaguchi**, S. Hattori, T. Sato, S. Tsuji, M. Hara, Y. Horie, T. Okamoto (*Japan*)
Microgels prepared by molecular assembling

KL 09 **M.A. Winnik** (*Canada*)
The early stages of latex film formation

KL 10 CONCLUSION
R.M. Fitch (*USA*)
Expanding the envelope

MAIN LECTURES

ML 01 H. Maehata, C. Buragina, B. Keoshkerian, R.W. Simms, **M.F. Cunningham** (*Canada*)
Compartmentalization in heterogeneous living/controlled radical polymerizations

ML 02 **M. Okubo** (*Japan*)
Control of surface morphology of polymer particles for biomedical applications

ML 03 **Y. Nagasaki** (*Japan*)
Material design for functional bionanoparticles

ML 04 **M. Müller**, W. Ouyang, V. Starchenko, B. Keßler (*Germany*)
Polyelectrolyte complex nanoparticles with narrow size distribution: Preparation and protein binding

ML 05 **K.L. Wooley** (*USA*)
Polymer chemistry as applied to the emerging field of nanotechnology: With an emphasis on devices for nanomedicine

ML 06 **A. Elaissari** (*France*)
Colloidal particles in nanobiotechnologies for biomedical diagnostic applications

ML 07 **A.M. van Herk**, H. Heuts (*Netherlands*)
Synthesis of multicompartment nanoparticles

ML 08 G.G. Qi, C.W. Jones, **F.J. Schork** (*USA*)
RAFT polymerization in inverse miniemulsion: A new route to water-soluble polymers

ML 09 U. El-Jaby, M. Cunningham, **T. McKenna**, E. Bourgeat-Lami (*Canada*)
Emulsification for latex production: Rotor stators, static mixers, nanocomposites and future directions

ML 10 **W.D. Hergeth** (*Germany*)
Polymer colloids in cementitious applications

ML 11 R. Vyhnalkova, A. Eisenberg, **T.G.M. van de Ven** (*Canada*)
Loading and release of biocides in block-copolymer micelles

ML 12 S. Su, M.M. Ali, C.D.M. Filipe, Y. Li, **R. Pelton** (*Canada*)
Microgel-based inks for paper-supported biosensing applications

ML 13 **M. Ballauff** (*Germany*)
Interaction of proteins with charged colloids

ML 14 **D. Urban**, C. Beyers, M. Gerst (*Germany*)
Advanced polymer design for adhesives

SPECIAL LECTURES

SL 01 J. Tonnar, E. Pouget, **P. Lacroix-Desmazes**, B. Boutevin (*France*)
Synthesis of functional triblock polymer colloids by controlled/ living radical photopolymerization in miniemulsion

SL 02 **N.M.B. Smeets**, J.P.A. Heuts, J. Meuldijk, M.F. Cunningham, A.M. van Herk (*Netherlands*)
Molecular weight control in emulsion polymerization by catalytic chain transfer

SL 03 **B.S. Hawkett**, N. Jain, Y. Wang, G.G. Warr, S. Jones (*Australia*)
Superparamagnetic nanoparticles in the hyperthermia treatment of cancer and other medical applications

SL 04 **A. Shapira**, G. Markman, Y.G. Assaraf, Y.D. Livney (*Israel*)
β-Casein micelles as nanodelivery vehicles for chemotherapeutic drugs

SL 05 **S. Argentiere**, L. Blasi, G. Ciccarella, G. Barbarella, R. Cingolani, G. Gigli (*Italy*)
Poly(acrylic acid) nanogels: Loading-release behaviour with oligothiophene-labeled bovine serum albumin

SL 06 **A. Zaichenko**, N. Mitina, O. Shevchuk (*Ukraine*)
Kinetics and topochemistry of oligoperoxide-based synthesis of functional polymeric and hybrid colloids and nanoparticles for biomedical application

SL 07 **R. Stoika**, N. Mitina, A. Zaichenko, K. Rayevska, L. Izyumova, N. Kashchak, O. Klyuchivska, R. Lesyk, V. Stadnik, V. Vlizlo (*Ukraine*)
Novel functional oligoperoxide-based carriers of block and branched structures and water drug-delivery systems for tumor targeting and treatment

SL 08 **H.D.H. Stöver**, M.A.J. Mazumder, N. Burke, F. Shen, M. Potter (*Canada*)
Self-crosslinkable polyelectrolytes for cell immuno-isolation

SL 09 **W. Norde**, S. Lindhoud, M. Danial, R. de Vries, M. Cohen Stuart (*Netherlands*)
Biofunctionalized complex coacervate core micelles

SL 10 C. Houga., Y. Gnanou, D. Taton, S. Lecommandoux, R. Borsali, **J.F Le Meins** (*France*)_
Polysaccharide-based block copolymers: Synthesis and self-assembly

SL 11 **T. Basinska**, S. Krolik, S. Slomkowski (*Poland*)
Hydrophilic microspheres containing α-*tert*-butoxy-ω-vinylbenzyl-polyglycidol for immunodiagnostics: Synthesis, properties and biomedical applications

SL 12 **C. Vauthier**, D. Labarre (*France*)
Polymer colloids as drug carriers: Design strategies for intravenous administration

SL 13 A. Imaz, **J. Forcada** (*Spain*)
Biomedical uses of biocompatible temperature-sensitive microgels

SL 14 **S. Lecommandoux**, C. Schatz, J.F. Le Meins (*France*)
Stimuli-responsive polypeptide-based biomimetic nanocarriers

SL 15 C. Lv, Z. Li, D. Li, J. Yu, J. Chen, M. Pang, Z. Yao, **K. Cao** (*P.R. China*)
Preparation and characterization of uniform micron-size polystyrene particles with poly(vinylpyrrolidone) brushes by surface-photoinitiated polymerization in the presence of a free RAFT agent

SL 16 **C. Airaud**, E. Ibarboure, V. Héroguez, Y. Gnanou (*France*)
Morphology study of polymer hybrid particles prepared using tandem ROMP and ATRP in miniemulsion

SL 17 **S. Sajjadi**, F. Jahanzad, B.W. Brooks (*UK*)
Miniemulsions by phase inversion emulsification

SL 18 G. Diaconu, A. Bonefond, M. Paulis, **J.R. Leiza** (*Spain*)
Synthesis of waterborne polymer/clay nanocomposites by miniemulsion polymerization using cationic reactive oligomers

SL 19 **D.J. Adams**, T. He, M.F. Butler, C.T. Yeoh, A.I. Cooper, S.P. Rannard (*UK*)
Direct synthesis of anisotropic polymer nanoparticles by ATRP

SL 20 **A. Lopez**, J.M. Asua, E. Degrandi, C. Creton, R. Udagama, E. Bourgeat-Lami, T. McKenna, E. Canetta, J.L. Keddie (*Spain*)
Waterborne polyurethane-acrylic hybrid nanoparticles by miniemulsion polymerization: Design and production of nanocomposite materials

SL 21 **E. Degrandi**, C. Creton, A. Lopez, J.M. Asua, R. Udagama, E. Bourgeat-Lami, T. McKenna, E. Canetta, J.L. Keddie (*France*)
Waterborne polyurethane-acrylic hybrid nanoparticles by miniemulsion polymerization: Mechanical properties of nanostructured films

SL 22 **M.D. Soucek**, E. Pedraza (*USA*)
Control of functional site location for thermosetting latexes: The effect of bimodal particle distribution

SL 23 **E. Kostansek** (*USA*)
Surfactant and electrolyte effects on latex depletion flocculation by thickeners

SL 24 **S. Slomkowski**, E. Przerwa, S. Sosnowski (*Poland*)
Controlled formation of polystyrene (core)-polyglycidol (shell) microsphere assemblies on homogeneously modified mica surfaces

SL 25 **S. Boutti**, E. Bourgeat-Lami, I. Dubois-Brugger (*France*)
Potential applications of polymer colloids in cement industry and influence of low fractions of latexes on some properties of cement mortars

SL 26 S.M. Negim, **M.M.H Ayoub** (*Egypt*)
Synthesis and evaluation of water-soluble polymer for applications in concrete

SL 27 **B. Erdem**, D. Bhattacherjee, J. Argyropoulos, C. Diehl, R. Drumright (*USA*)
Aqueous polyurethane dispersions

SL 28 **R.J. Leyrer**, S. Altmann, W. Wohlleben (*Germany*)
Mechano-optical brilliant polymer colours - nanotechnology paves the way

SL 29 **J.G. Tsavalas**, J.K. Nguyen, M. Kacperski, D.C. Sundberg (*USA*)
Stimuli-responsive self-healing coatings utilizing a two-part microcapsule approach

SL 30 **G. Carrot**, F. Gal, H. Perez (*France*)
Nanoscale hybrid objects: A smart combination of chemistry and SANS

SL 31 T. Arruda, A. Guimarães, A. Shiozer, F. Zanella, M. Cella**,** **M. do Amaral** (*Brazil*)
Towards enhanced fragrance sensitivity – encapsulation of odorant chemicals by miniemulsion polymerization

SL 32 **T. Nisisako** (*Japan*)
Microfluid droplet generators for the synthesis of monodisperse polymeric microparticles

SL 33 **P.A.G. Cormack** (*UK*)
Hypercrosslinked polymer microspheres

SL 34 **J.J. Spitzer** (*USA*)
Some unresolved issues with the DLVO theory of stability of charged nano-particles

SL 35 **S. Hietala**, K. Kalliomäki, M. Nuopponen, H. Tenhu (*Finland*)
Thermally responsive associative water-soluble polymers based on tacticity control

SL 36 T. Kotsokechagia, P. De Leonardis, **F. Cellesi**, N. Tirelli (*UK*)
Surface functionalization of inorganic oxide nanoparticles

SL 37 **O. Borisov**, A. Polotsky, P. Košovan, E. Zhulina, T. Birshtein, K. Procházka , M. Ballauff, F.A.M. Leermakers (*France*)
Star-branched polyelectrolytes as soft, pH- and thermoresponsive colloids

SL 38 **K.I. Dragnevski**, A.M. Donald (*UK*)
Latex film formation in environmental scanning electron microscope

SL 39 **J.L. Keddie**, T. Wang, A.B. Dalton, C. Creton, J.M. Asua (*UK*)
Applications of colloidal nanocomposites in pressure-sensitive adhesives

SL 40 **J. Marchal**, F. Deplace, M. Rabjohns, A. Foster, P.A. Lovell, C. Creton (*France*)
Effect of crosslink distribution on deformation and adhesive properties of waterborne core-shell PSA

POSTER COMMUNICATIONS

PC 01 **F.C.T. de Souza**, R.C.P. da Silva, M.L.C.P. da Silva, A.M. dos Santos
Hybrid latexes of polystyrene/natural Brazilian MMT via emulsion polymerization: Confirmation of synergism effect on the particle nucleation and latex stabilization when using a blend of MMT and an ethoxylated-sulphated surfmer

PC 02 A.M.C. Pereira, **A.M. dos Santos**, R.P. Moraes, T.S. Valera, N.R. Demarquette
Effect of different quaternary ammonium salts used in the treatment of a natural Brazilian montmorillonite on the properties of polymer-layered silicate nanocomposites prepared by miniemulsion polymerization

PC 03 **T. Suzuki**, M. Yanagisawa, M. Okubo
Estimation of distribution of carboxyl groups in carboxylated copolymer particles prepared by batch emulsion copolymerization under different stirring conditions

PC 04 Y. Kitayama, Y. Kagawa, **M. Okubo**
Preparation of block copolymer particles having multilayered structure by miniemulsion ATRP

PC 05 **T. Staicu**, M. Micutz, B. Jurca, A. Tirsoaga
Monodisperse latices obtained by surfactant-free emulsion polymerization

PC 06 **S. Wiechers**, G. Schmidt-Naake
The influence of the reaction progress on copolymer composition in inverse miniemulsion

PC 07 **I.M. Grabs**, G. Schmidt-Naake
Synthesis and characterization of amino-functionalized nanoparticles in miniemulsions

PC 08 A.M. dos Santos, T. Le Bris, F. D'Agosto, **M. Lansalot**
Use of poly(ethylene oxide) macroRAFT agent as a stabilizer in miniemulsion polymerization and its impact on the structure of the resulting particles

PC 09 **H. Minami**, K. Yoshida, M. Okubo
Preparation of polystyrene/poly(acrylic acid) composite particles by seeded dispersion polymerization in an ionic liquid

PC 10 **M. Babič**, D. Horák, P. Jendelová, M. Trchová
Modification of iron oxide nanoparticle surface with a water-soluble polymer via solution polymerization

PC 11 **J. Rowe**, T. Cosgrove, E. Hasan, A. Howe
pH and temperature-sensitive magnetic nanoparticles

PC 12 **C.N. Urbani**, S.M. Phillips, M.R. Whittaker, M.J. Monteiro
In-situ PNIPAM-RAFT seeded emulsion polymerization

PC 13 **J. Shan**, Y. Zhao, N. Granqvist, H. Tenhu
High-density oligo(*N*-isopropylacrylamide) brushes on gold nanoparticles undergo phase transitions

PC 14 **J. Spěváček**, L. Hanyková
NMR study on polymer-solvent interactions in solutions of thermoresponsive polymers

PC 15 **J. Hradil**, H. Macková, D. Horák
Polarity of poly(*N*-isopropylacrylamide) and poly(*N,N*-diethylacrylamide) gels and their temperature dependent properties studied by liquid chromatography

PC 16 **D. Šponarová**, D. Horák
Poly(*N,N*-diethylacrylamide) microspheres by dispersion polymerization

PC 17 G. Baquey, S. Biggs, S. Heriot, **M. Manguian**
Applications of stimuli-responsive copolymers

PC 18 J.H. Jang, Y.H. Kim, **H.B. Lim**
Surface modification of polymerized magnetic particles and its application

PC 19 **H. Macková**, D. Horák
Magnetic thermoresponsive poly(*N*-isopropylacrylamide) microspheres: Preparation and properties

PC 20 S. Lu, **J. Ramos**, J. Forcada
Monodisperse magnetic polymeric composite particles for biomedical applications

PC 21 M. Janata, T. Skorokhoda, **M.J. Beneš**, E. Pollert, A.S. Zaichenko
Coating of magnetic particles by anchoring polymers

PC 22 **A.R. Mahdavian**, Y. Sehri, H. Salehi-Mobarakeh
Investigation of the effect of parameters on preparation of nanocomposite particles with core-shell morphology based on Fe_3O_4-poly(butyl acrylate-styrene) particles by miniemulsion polymerization

PC 23 **Z. Sedláková**, J. Baldrian, J. Pleštil, J. Nedbal, I. Krakovský, P. Holub
Nanostructured organic-inorganic hybrid materials from aqueous polymer dispersions

PC 24 **A. Sarbu**, A. Abagiu, L. Mara, A.L. Radu, V. Fruth, M. Beda, S.O. Dima, S. Garea, G. Nechifor, S. Motoc, L. Sarbu
New materials by template polymerization of acrylonitrile in nanoporous silica

PC 25 **J.A. Balmer**, S.P.Armes, P.W. Fowler
Packing efficiency of small silica particles on large latex particles

PC 26 H.M. Jeong, **Y.R. Lee**, J.Y. Jang
Waterborne polyurethane-exfoliated graphite oxide nanocomposite: The effect of preparation method

PC 27 H.M. Jeong, **J.Y. Jang**, Y.R. Lee
Waterborne polyurethane-exfoliated graphite oxide nanocomposite: The effect of filler content

PC 28 **T. Ono**, N. Sugita, F. Tanimoto
Molecular assembly of poly(DL-*N*-isopropylaspartamide-*co*-succinimide) derivatives

PC 29 **V.V. Palyulin**, I.I. Potemkin
Formation of complex micelles in solutions of AB and BC block copolymers

PC 30 R. Ivanova, T.B. Bonné, T. Komenda, K. Lüdtke, P. Štěpánek, R. Jordan, **C.M. Papadakis**
Micellar multicompartment hydrogels from poly(2-oxazoline)s containing fluorophilic, hydrophilic, and lipophilic blocks

PC 31 A. Kulkarni, A. Jain, W. Wang, A.M.B. Koumba, P. Busch, M. Sharp, A. Laschewsky, P. Müller-Buschbaum, **C.M. Papadakis**
Responsive hydrogels from amphiphilic block copolymers with a responsive hydrophilic block

PC 32 M. Talelli, G. Mountrichas, **S. Pispas**
Self-assembled colloids formed by block copolymers and DNA

PC 33 **S. Pispas**
Self-assembled colloids from block copolymers and vesicle-forming surfactant

PC 34 **E.S. Read**, S.P. Armes, M.F. Butler
Synthesis of novel shell crosslinked micelles

PC 35 **Č. Koňák**, M. Sedlák
Nanoparticles formed by interchain hydrogen bonding of poly(methacrylic acid)-*block*-poly(ethylene oxide) copolymers

PC 36 **C.C. Wang**, H.L. Huang
Synthesis of hollow and core/shell-type polyaniline colloid and its microwave absorption application

PC 37 **P.S. Vlasov**, Z. Walterová, C. Rodríguez Emmenegger, V. Šubr, Z. Sedláková, E.Brynda
Radical polymerization of 2-(*N,N*-diallyl-*N*-methyl-ammonio)acetate initiated by atom transfer

PC 38 **M.T. Gokmen**, S.A.F. Bon, F.E. Du Prez
Single and multiple emulsion droplets in flow fabrication of clickable particles via a simple microfluidic system

PC 39 **D. Gromadzki**, A. Tereshchenko, R. Makuška, P. Štěpánek, B. Porsch
Synthesis of highly branched and hyperbranched sodium 2-acrylamido-2-methylpropanesulfonate in aqueous media via self-condensing AGET ATRP

PC 40 **C.A. Bell**, L.R. Gahan, M.R. Whittaker, M.J. Monteiro
Outer-sphere-electron-transfer metal-catalyzed polymerization of styrene using a macrobicyclic ligand

PC 41 **H. Berber**, H. Yildirim
Synthesis of poly(vinyl acetate-*co*-dioctyl maleate) latex in the presence of *N*-(hydroxymethyl)acrylamide as a new oligomeric protective colloid

PC 42 **Y. Xiao**, A. Heise, C.E. Koning
Synthesis of biodegradable chiral polyesters by asymmetric enzymatic polymerization and their formulation into microspheres

PC 43 **J. Horský**, Z. Walterová, B. Porsch
Kinetics of polypseudorotaxane precipitation

PC 44 **M. Jamróz-Piegza**, W. Wałach, B. Trzebicka, A. Dworak
Preparation and loading of polyether nanoparticles with covalently crosslinked core

PC 45 **K. Tomita**, T. Ono
Preparation of polymeric particles with poly(aspartic acid) hairy chains

PC 46 **A.Y. Menshikova**, T.G. Evseeva, N.N. Shevchenko, B.M. Shabsels, A.V. Yakimansky
Monodisperse particles based on copolymers of methyl methacrylate or styrene with *N*-vinylformamide

PC 47 **W. Chaouch**, F. Dieval, B. Durand
FT-IR determination of chemical degradation of PET during implantation time for filaments used for vascular prostheses

PC 48 **M.L. Hsueh**, M.H. Wang, Y.Z. Chen, K.C. Shih
Synthesis of cycloaliphatic methacrylate and difunctional methacrylate ether dimer and their copolymerization and cyclopolymerization via reversible addition-fragmentation chain-transfer (RAFT) polymerization

PC 49 J. Machotová, **J. Šňupárek**
Functionalized microgels for acrylic coatings

PC 50 M. Achtzehn, A. Larsson, **O.J. Karlsson**
Reaction kinetics of acrylic emulsion polymerizations in the presence of nanosized silica

PC 51 **J. Pánek**, Č. Koňák, P. Štěpánek
Polymer nanoparticles stabilised by surfactants and reproducibility of their preparation

PC 52 **M. Muranaka**, T. Ono
Design of a polymer dispersion stabilizer for preparation of monodisperse polylactide microspheres

PC 53 **A. Zubarev**, A. Safronov, L. Iskakova
Self-similar wave of swelling/collapse phase transition along polyelectrolyte gel

PC 54 **S. Filippov**, M. Hrubý, Č. Koňák, H. Macková, M. Špírková, P. Štěpánek
Novel pH-responsive nanoparticles

PC 55 **M. Uchman**, K. Procházka, K. Gatsouli, S. Pispas
Induced micellization by interaction of double hydrophilic block copolymers with metal compounds

PC 56 **M. Štěpánek**, M. Šrámková, P. Matějíček, K. Procházka
Self-assembly of star copolymer with four poly(ε-caprolactone)-*block*-poly(oxyethylene) arms in aqueous solution

PC 57 **I. Portnaya**, R. Khalfin, U. Cogan, O. Ramon, D. Danino
Interaction of synthetic and native block copolymers (Lutrol F127 and bovine β-casein) in water solution. Mixed micelles.

PC 58 **J. Holoubek,** J. Baldrian, F. Lednický
Self-assembled nanostructures in copolymer blends: SAXS, SANS and TEM study

PC 59 Ş. Uğur, **Ö. Yargi**, Ö. Pekcan
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Surface features of colloids as evaluated by electrokinetics

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PC 62 **G. Akin Evingur**, D. Kaya Aktas, Ö. Pekcan
Phase transitions in hydrogels by using fluorescence technique

PC 63 **E. Alveroğlu**, A. Gelir, Y. Yilmaz
Swelling behaviour of chemically ion-doped hydrogels

PC 64 **P. Murias**, L. Matějka, J. Pleštil
Morphology and mechanical properties of epoxy nanocomposites

PC 65 **M.A. Nassar**, N.A. Abdelwahab, N.R. Elhalawany
Contribution of cellulose fibers to mechanical properties of polystyrene matrix composites

PC 66 Y. Tigci, **A. Sarac**
Investigation of water-based emulsions: Surface and film-forming properties

PC 67 A. Sarbu, T. Dobre, **A.L. Radu**, S.O. Dima, C. Bercu, G. Florea, E. Bacalum, M. Beda, G. Nechifor, L. Sarbu, N. Antohe
Molecular imprinting of an acrylic copolymer membrane with diosgenine

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Dye-containing monodisperse polymer particles as structural elements of photonic crystals

PC 69 **D.E. Lonsdale**, M.R. Whittaker, M.J. Monteiro
Architecture-controlled self-assembly of complex polymer architectures for biomedical applications

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Cell recognizable functional nanocarriers with magnetosensitivity on the basis of Me^0 and Me_xO_y for pathological cell detection and treatment

PC 71 **C. Vauthier**, P. Lindner, B. Cabane
Study of adsorption of bovine serum albumin on poly(isobutyl cyanoacrylate) nanoparticles by small-angle neutron scattering

PC 72 **E. Marie**, M. Wu, E. Dellacherie, C. Frochot
Nanoparticles for drug delivery via miniemulsion polymerization of butyl cyanoacrylate

PC 73 **A. Utrata-Wesołek**, S. Ivanova, D. Christova, B. Trzebicka, A. Dworak
Gels from polyglycidol and its derivatives - new materials for biological applications

PC 74 **K.K. Upadhyay**, J.F. Le Meins, C. Schatz, A. Misra, S. Lecommandoux
Development of a new nanocarrier based on hyaluronic acid-γ-benzyl L-glutamate copolymer for cancer treatment

PC 75 **I. Moleavin**, L. Epure, R. Enea, N. Hurduc
Complex supramolecular azo-polysiloxane systems with potential biological applications

PC 76 **S. Khoee**, M. Yaghoobian
An investigation of the role of surfactants in controlling particle size of polymeric nanocapsules containing penicillin G in double emulsion

PC 77 **E. Grosu**, E. Nemes, F. Petrescu
Biodegradable polyesters in medical applications

PC 78 C.M. Moraes, A.M. Prado, A.H. Rosa, E. de Paula, **L.F. Fraceto**
Encapsulation of local anesthetic bupivacaine in biodegradable PLGA nanospheres: Factorial design, characterization and cytotoxicity studies

PC 79 **F. Borcan**, N. Filimon, C. Bolcu, R. Nutiu
Polyurethane foam with antimicrobial activity

PC 80 **Y.M. Bolbukh**, K.K. Katok, G.Y. Yurkov, R.B. Kozakevych, V.A. Tertykh
Encapsulation of inorganic particles by biocompatible polymers

PC 81 **Y. Balçik**, E.H. Mert, H. Berber, M.A. Kaya, H. Yildirim
Synthesis of highly porous polyHIPE materials and removing petroleum wastes

PC 82 **T. Wang**, T.G. Weerakkody, E. Canetta, J.L. Keddie, J.M. Asua
pH-tuning of adhesive properties of polymer colloid films containing poly(acrylic acid)

PC 83 **M. Rapa**, E. Nemes, A. Scheau
Biodegradable polymeric plant pots

PC 84 **V. Raman**, E. Klimov, W. Heckman, J. Schmidt-Thümmes, A. Stoiljkovic, A. Greiner
Nanofibers by electrospinning of polymer dispersions

PC 85 **C.Y. Chen**, W.J. Chou
A novel method of preparation of soft and hard polymer films using PVC colloids

PC 86 **Ö. Tari**, Ö. Pekcan
Critical exponents of thermal phase transitions of κ-carrageenan in various salt solutions

PC 87 **A. Šturcová**, P. Schmidt, J. Dybal
Vibrational spectroscopy study of Pluronic-water interactions in relation to micellisation and gelation

PC 88 **F.C. Giacomelli**, I.C. Riegel, C.L. Petzhold, N.P. da Silveira, J. Pleštil, P. Štěpánek
Aggregation behavior of highly asymmetric triblock copolymers accessed by scattering measurements

PC 89 **I. Zorin**, A. Melnikov, T. Ushkova, I. Makarov, A. Bilibin
Core-crosslinked polymerized micelles and dendronized nanoparticles

PC 90 B. Lee, D. Hay, A. Crisci, G. Armstrong, **M.A. Firestone**
Polyelectrolyte association with a model biological membrane

PC 91 **J.W.O. Salari**, B. Klumperman
Low-temperature formation of high-T_g colloidosomes

PC 92 J. Juárez, **P. Taboada**, S. Goy-López, E. Castro, A. Cambón, V. Mosquera
Self-assembly process of different poly(oxystyrene)-poly(oxyethylene) block copolymers: Spontaneous formation of vesicular structures and elongated micelles

PC 93 **F.O. Ohwoavworhua**, A. Osinowo
Preformulation studies and compaction properties of a new starch-based pharmaceutical aid

PC 94 **A. Agirre**, J.M. Asua
New waterborne polymer dispersions for improving adhesion to low energy surfaces

PC 95 **K. Hishchak**, A. Strachota
Preparation of dually, pH- and temperature-responsive poly(NIPA) nanocomposite hydrogels filled with colloid silica

PC 96 **S.I. Ali**, H. Heuts, B.S. Hawkett, A. van Herk
Exploring new routes for clay encapsulation

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