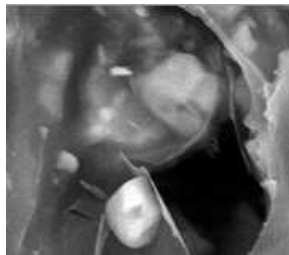


ic-rmm1 CONFERENCE - DETAILED PROGRAM

1st International Conference on
Rheology and Modelling of Materials

Miskolc-Lillafüred, Hungary
October 7-11, 2013

CONFERENCE PROGRAM



ic-rmm1

ic-rmm1 CONFERENCE - DETAILED PROGRAM

Session 1: Applied Rheology and Modeling of Clays, Minerals and Rocks

Session 2: Applied Rheology of Polymer Melts

Session 3: Applied Rheology and Material Structure of Foods

Session 4: Avalanche Dynamics in Rheology and Phase Transitions

Session 5: Experimental Study and Modeling of Complex Flows

Session 7: Multiscale Mechanics of Materials

Session 8: Rheological Fluid Mechanics

Session 9: Rheology and Modeling of Hetero-modulus Hetero-viscous Complex Materials

Session 12: Rheology of Biological Systems

Session 13: Rheology of Construction Materials and Concretes

Session 14: Rheology of Emulsions, Suspensions and Foams

Session 15: Rheology of Ferrofluids and Magneto-rheological Materials

Session 16: Rheology of Fluid Interfaces and Modeling

Session 17: Rheology of Melted Metals and Glasses

Session 18: Rheology of Nanofluids

Session 19: Rheometric Measurement - Methods, Equipments and Errors

Session 21: Rheology of Drug and Cosmetic Materials

ic-rmm1 CONFERENCE - DETAILED PROGRAM

October 7. Monday	HUNYADI JÁNOS HALL
13:30 - 14:50	CONFERENCE OPENING
15:00 - 15:40	PLENARY 1
15:40 - 16:00	COFFEE BREAK
16:00 - 18:40	PLENARY 2, 3, 4 and 5
19:00 - 19:20	WELCOME RECEPTION

October 8. Tuesday	HUNYADI JÁNOS HALL	BEATRIX HALL
9:00 - 10:20	PLENARY and 7	
10:20 - 10:55	SHORT ORALS I.	
10:55 - 11:20	COFFEE BREAK + POSTERS	
11:20 - 13:00	SESSION 4 and 17	SESSION 19
13:00 - 14:00	BUFFET LUNCH	
	SOCIAL and FREE PROGRAM	

October 9. Wednesday	HUNYADI JÁNOS HALL	BEATRIX HALL
9:00 - 10:20	PLENARY 8 and 9	
10:20 - 10:40	COFFEE BREAK	
10:40 - 12:20	SESSION 3, 18 and 21	SESSION 5 and 8
12:20 - 13:00	BUFFET LUNCH	
13:00 - 19:00	SOCIAL and FREE PROGRAM	

ic-rmm1 CONFERENCE - DETAILED PROGRAM

October 10. Thursday	HUNYADI JÁNOS HALL	BEATRIX HALL
9:00 - 10:20	PLENARY 10 and 11	
10:20 - 10:50	SHORT ORALS II.	
10:50 - 11:20	COFFEE BREAK + POSTERS II.	
11:20 - 13:00	SESSION 1	SESSION 14
13:00 - 14:00	BUFFET LUNCH	
14:00 - 16:00	SESSION 2 and 13	SESSION 7
16:00 - 16:20	COFFEE BREAK	
16:20 - 18:00	SESSION 8	SESSION 15
19:00 -	ic-rmm1 CONFERENCE DINNER	

October 11. Friday	HUNYADI JÁNOS HALL	BEATRIX HALL
9:00 - 10:20	PLENARY 12 and 13	
10:20 - 11:10	SHORT ORALS III.	
11:10 - 11:40	COFFEE BREAK	
11:40 - 13:00	SESSION 14	SESSION 12



ic-rmm1 CONFERENCE - DETAILED PROGRAM - MONDAY

October 7, 2013 – Monday

HUNYADI JÁNOS HALL

OPENING CEREMONY

Chair: Prof Dr Sergei N. **KULKOV**, Institute of Strength Physics SB RAS (Russia)

- 13:30 – 13:35** **ic-rmm1 Opening**
Prof Dr Sergei N. **KULKOV** (Russia)
- 13:35 – 14:05** **Welcome Address**
Prof Dr Igor **EMRI** - President of the International Society of Rheology
- 14:05 – 14:20** **Journal Épitóanyag Welcomes the Participants of ic-rmm1 Conference**
Dr Adorján **BOROSNYÓI** – editor in chief (Hungary)
- 14:20 – 14:30** **Welcome and General Informations**
Prof Dr László A **GÖMZE** – chair of **ic-rmm1** Conference (Hungary)
- 14:30 – 14:45** **The Anton Paar Hungary Ltd**
Dr Péter **KÁRPÁTI** (Hungary)
- 14:45 – 15:00** **The Particle Characterisation Ltd**
Mr Péter **Winkler** (Hungary)
- 15:00 – 15:40** **PLENARY LECTURE – 1ST**
Preparation of Functional Composite Materials Based on Chemically Derived Graphene using Solution Process
Prof Dr O Ok **PARK**, KAIST (Republic of Korea)
- 15:40 – 16:00** **COFFEE BREAK**
- PLENARY LECTURES I**
- Chair:** Prof Dr Gerald G. **FULLER**, Stanford University (USA)
- 16:00 – 16:40** **PLENARY LECTURE – 2ND**
Intriguing Nonlinear Instability Dynamics in Film Blowing Process
Prof Dr Jae chun **HYUN**, Korea University (Republic of Korea)
- 16:40 – 17:20** **PLENARY LECTURE – 3RD**
Modeling the Statistical Properties of Acoustic Emission During the Compression of a Porous Material
Dr Xavier **ILLA**, Universidad de Barcelona (Spain)
- 17:20 – 18:00** **PLENARY LECTURE – 4TH**
Consideration on the Interpretation of a Contact Angle on a Real Surface from Detailed Derivations of Young's equation, Cassie-Baxter equation and Wenzel equation
Prof Dr Do Hyun **KIM**, KAIST (Republic of Korea)
- 18:00 – 18:40** **PLENARY LECTURE – 5TH**
A Simple Model for Plastic Deformation and the Statistics of Slip Avalanches (Serrations in the Stress Strain Curves)
Prof Dr Karin **DAHMEN**, University of Illinois at Urbana-Champaign (USA)

ic-rmm1 CONFERENCE - DETAILED PROGRAM - TUESDAY

October 8. Tuesday	HUNYADI JÁNOS HALL	BEATRIX HALL
9:00 - 10:20	PLENARY 6 and 7	
10:20 - 10:50	SHORT ORALS I.	
10:55 - 11:20	COFFEE BREAK + POSTERS	
11:20 - 13:00	SESSION 4 and 17	SESSION 19
13:00 - 14:00	BUFFET LUNCH	
	SOCIAL and FREE PROGRAM	

HUNYADI JANOS HALL	
<p align="center">PLENARY LECTURES <i>Chair: Prof.Dr. Ekhard SALJE</i> <i>University of Cambridge (UK)</i></p>	
<p align="center">PLENARY LECTURE 6</p>	
9:00 - 9:40	<p>Dynamics of Soft, Biological Interfaces Prof. Dr. Gerald G. FULLER - Stanford University (USA)</p>
<p align="center">PLENARY LECTURE 7</p>	
9:40 - 10:20	<p>Selection of appropriate polyoxymethylene based binder for powder injection moulding feedstock material Prof. Dr. Igor EMRI - University of Ljubljana (Slovenia)</p>
<p align="center">SHORT ORALS I.</p>	
10:20 - 10:25	<p>[P 05] Mathematical characterization of the values of rheologic variables during the networking reaction of rubber mixtures based on SBR Emil Seliga, Ondrej Bošák, Soňa Rusnáková, Stanislav Minárik</p>
10:25 - 10:30	<p>[P 09] Effects of Ripening on Rheological Properties of Avocado Pulp (Persea americana mill. cv. Hass) Fernando Osorio</p>
10:30 - 10:35	<p>[P 12] Metallurgical processes to extract gold from ores and concentrates in the aquatic environment Golovchenko N.Yu., Aknazarov S.Kh., Zhapekova A.O., Golovchenko O.Yu</p>
10:35 - 10:40	<p>[P 31] Rheological behavior of screen printing pastes based on Barium Titanate nanopowder Iryna Dulina, Saide Umerova, Andrey Ragulya</p>
10:40 - 10:45	<p>[P 33] Rheology Characteristics of Ceramic Inkjet Inks Based on Barium Titanate Nanopowder Roman Kyrpal, Artem Nikulin, Iryna Dulina, Sergey Ivanchenko, Andrey Ragulya</p>
10:45 - 10:50	<p>[P 34] Improved OCT Velocimetry of Hard Sphere Colloidal Suspensions Alex Malm, Thomas Waigh</p>
10:50 - 10:55	<p>[P 43] Unitester Ltd. Eva F. Lauer</p>

COFFEE BREAK + POSTERS

ic-rmm1 CONFERENCE - DETAILED PROGRAM - TUESDAY

POSTER SESSION I.

[P 01]	Rheological properties of the drilling muds. Gulzhan Kudaikulova
[P 06]	The rheological properties of Psyllium gum in protein based solution Narjes Kazemi Ghahfarokhi , Mohammad Hojjatoleslami, Javad Keramat, Amir Shakerian
[P 07]	Rheological parameters' of dough with inulin addition and effect on bread quality Tatiana Bojňanská, Marian Tokár, Alena Vollmannová
[P 11]	Influence of strongly anisotropic materials crystal structure anisotropy on a structure and property of their basis ceramics, synthesized in the solar furnace. Gulamova D.D., Riskiev T., Bobokulov S., Turdiev D., Uskenbaev D., Shevchenko V.P.
[P 15]	Experimental investigation of shock wave processes in solid and liquid paraffin and docosane. Vasily. A. Sosikov, A. V. Utkin
[P 18]	Colloidal Behavior of Aqueous Montmorillonite Suspensions in the Presence of Nonionic Polymer Mourad Gareche, Nadjet Azri, Leila Saoudi, Ahmed Allal, Noureddine Zeraibi
[P 19]	Rheological characterization of polyanionic cellulose(PAC) solutions Khaled BENYOUNES
[P 23]	Study of rheological properties of cement mortar mixture with calcined clay Nasser Chelouah, Fatiha Souidi
[P 28]	Magnetorheological fluids with two-component dispersed phase Evguenia Korobko, Zoya Novikova, Mikalai Zhurauski
[P 29]	Rheological properties of the BaTiO3 nanopowder slips for tape casting Sergey Ivanchenko, Artem Nikulin, Iryna Dulina, Roman Kyrpal, Andrey Ragulya
[P 32]	Polymer Nanostructure Fabricated by using Nanoimprint for OLED Applications Sohee Jeon, Young Seok Song, Jun-Ho Jeong, Jae Ryoung Youn
[P 36]	Rheology and Structure of Poloxamer 407 (Pluronic F127) Ki-won Song, Eun-Kyoung Park
[P 37]	Rheology and physical-chemical characteristics of the solutions of the medicines Aleksandr Urakov, Natalia Urakova

ic-rmm1 CONFERENCE - DETAILED PROGRAM - TUESDAY

HUNYADI JANOS HALL

ORAL PRESENTATIONS

SESSION 4 AND SESSION 17

Avalanche Dynamics in Rheology and Phase Transitions

Rheology of Melted Metals and Glasses

Chair: Prof. Dr. Ekhard SALJE - University of Cambridge (UK)

11:20 - 11:40	Twinning in Strained Ferroelastics: Microstructure and Statistics Xiangdong Ding, T. Lookman, A. Saxena, J. Sun, E.K.H. Salje
11:40 - 12:00	On the Mechanical Loss in Ferroelastic Shape Memory Alloys Yumei Zhou, Xiangdong Ding, Jun Sun, Jinyu Zhang
12:00 - 12:20	Friction in ferroelastic and martensitic materials Ekhard K. H. Salje
12:20 - 12:40	Avalanches in shock induced plastic deformation and phase transition: A molecular dynamics study Hongxiang Zong, X. Ding, T. Lookman, G. Liu, E.K.H. Salje, J. Sun
12:40 - 13:00	A novel viscosity model and database for molten slags Guixuan Wu, Elena Yazhenskikh, Klaus Hack, Erwin Wosch, and Michael Müller

BEATRIX HALL

ORAL PRESENTATIONS

SESSION 19

Rheometric Measurement - Methods, Equipments and Errors

Chair: Dr. Oktay AKTAS - University of Cambridge (UK)

11:20 - 11:40	Study of shape memory alloys and the phase transition by DMTA and DSC measurements Dávid Kis, Zsolt Dugár, Pál Hansággy, Gábor Béres
11:40 - 12:00	Rheological Properties of Adding Inulin in WPC Solution in Different Physiochemical Properties Mandana Alipour, Mohammad Hojjatoleslami, Mohammad Ali Shariaty
12:00 - 12:20	Rheokinetics dependencies of gel-forming compositions Andrey Bogoslovsky
12:20 - 12:40	Examination of primer- and second-rate thermodynamic realignments of metals and metal-alloys, with application of DMTA equipment Béres Gábor, Dugár Zsolt, Kis Dávid, Barkóczy Péter, Hansággy Pál
12:40 - 13:00	Friction and phase transitions in ferroelectric device materials observed by Resonant Piezoelectric Spectroscopy Oktay Aktas, Michael A. Carpenter, Sam Crossley, Ekhard K. H. Salje

ic-rmm1 CONFERENCE - DETAILED PROGRAM - WEDNESDAY

October 9. Wednesday	HUNYADI JÁNOS HALL	BEATRIX HALL
9:00 – 10:20	PLENARY 8 and 9	
10:20 – 10:40	COFFEE BREAK	
10:40 – 12:20	SESSION 3, 18 and 21	SESSION 5
12:20 – 13:00	BUFFET LUNCH	
13:00 – 19:00	SOCIAL and FREE PROGRAM	

HUNYADI JANOS HALL	
PLENARY LECTURES <i>Chair: Prof. Dr. Dennis A. SIGINER</i> <i>Universidad de Santiago de Chile (Chile)</i>	
PLENARY LECTURE 8	
9:00 - 9:40	Optical coherence tomography velocimetry studies of complex fluids Dr. Thomas A. WAIGH - University of Manchester (UK)
PLENARY LECTURE 9	
9:40 - 10:20	The Rheological basis of Bubble formation in cereal products Prof. Dr. Josef L. KOKINI - University of Illinois (USA)

COFFEE BREAK

ORAL PRESENTATIONS	
SESSION 3, 18 and 21 Applied Rheology and Material Structure of Foods Rheology of Nanofluids Rheology of Drug and Cosmetic Materials <i>Chair: Dr Thomas A. WAIGH - University of Manchester (UK)</i>	
10:40 - 11:00	Rheological modeling of olive oil/policosanols organogels Francesca R. Lupi, Domenico Gabriele, Valeria Greco, Noemi Baldino, Lucia Seta and Bruno de Cindio
11:00 - 11:20	Effect of different hydrocolloids on rheological properties of model system jam: Simplex Lattice Mixture Design Approach to optimize the hydrocolloid levels Mahmut DOGAN
11:20 - 11:40	Comparative Study of rheological behavior of montmorillonite and kaolinite: Application to the dermo cosmetics Orléans Ngomo, Jean B. Tchatchueng, Richard Kamga, Joseph Sieliechi
11:40 - 12:00	Rheological Properties of Silica Based Shear Thickening Fluids (STFs) Sema Yıldız, Oylum Çolpankan, Fikret Şenel, Pınar Erbil, Metin Tanoglu

BEATRIX HALL**ORAL PRESENTATIONS****SESSION 5 and 8****Experimental Study and Modeling of Complex Flows
Rheological Fluid Mechanics***Chair: Prof. Dr. Jae Chun HYUN - Korea University (Republic of Korea)*

10:40 - 11:00	Thixotropic and Shear Banding Flow Effects in a Continuous Squeeze Flow of a Structured Fluid Edtson Emilio Herrera Valencia
11:00 - 11:20	Operability Coating Windows in Slot Die Coating Processes Hyun Wook Jung, Si Hyung Lee, Won-Gi Ahn, Jae Chun Hyun
11:20 - 11:40	Dynamic Analysis of Marine Drilling Riser for Deepwater Environment Nam-Sub Woo, Young-Ju Kim, Jae-Ki Kwon, Sang-Shik Kim, Sang-Woong Yun, Byung-Woo
11:40 - 12:00	An Experimental Study on the Cuttings Transport in Inclined Slim-Hole Annulus Young-Ju Kim, Nam-Sub Woo, Sang-Mok Han
12:00 - 12:20	Drag reduction of nata de coco suspensions in circular pipe flow Jun Warashina, Satoshi Ogata

ic-rmm1 CONFERENCE - DETAILED PROGRAM - THURSDAY

October 10. Thursday	HUNYADI JÁNOS HALL	BEATRIX HALL
9:00 - 10:20	PLENARY 10 and 11	
10:20 - 10:50	SHORT ORALS II.	
10:55 - 11:20	COFFEE BREAK + POSTRES II.	
11:20 - 13:00	SESSION 1	SESSION 14
13:00 - 14:00	BUFFET LUNCH	
14:00 - 16:00	SESSION 2 and 13	SESSION 7
16:00 - 16:20	COFFEE BREAK	
16:20 - 18:20	SESSION 8	SESSION 15
19:00 -	ic-rmm1 CONFERENCE DINNER	

HUNYADI JANOS HALL	
PLENARY LECTURES <i>Chair: Prof. Dr. Jae Chun HYUN</i> <i>Korea University (Republic of Korea)</i>	
PLENARY LECTURE 9	
9:00 - 9:40	Deformation, orientation and bursting of microcapsules in simple shear flow: Wrinkling processes, tumbling and swinging motions Prof. Dr. Heinz REHAGE - TU Dortmund (Germany)
PLENARY LECTURE 10	
9:40 - 10:20	Heat Transfer Asymptote in Laminar Tube Flow of Non-linear Viscoelastic Fluids Prof. Dr. Dennis A. SIGNER - Universidad de Santiago de Chile (Chile)
SHORT ORALS II.	
10:20 - 10:25	[P 02] Modeling of mechanical properties of materials obtained via alkaline activation of illite-based clays of Latvia Ingunda Sperberga, Maris Rundans, Andris Cimmers, Linda Krage1, Inese Sidraba
10:25 - 10:30	[P 10] Rheological Characterization of Polyoxyethylene (POE) and Carboxymethyl Cellulose (CMC) Suspensions with Added Solids Fernando A. Osorio, Alfredo Mora, Olivier Skurtys
10:30 - 10:35	[P 22] Effect of high pressure processing on rheological properties and pectinmethylesterase activity of Aloe vera (Aloe barbadensis miller) juice Nishant R Swami Hulle, P Srinivasa Rao
10:35 - 10:40	[P 24] Mineral admixture influence on thixotropic behaviour of light cement M.Khodja-Saber; A. Mellak; A.Benmounah; T.Sidane , M.Khodja
10:40 - 10:45	[P 26] Low temperature dolomitceramics with glass waste additive Linda Krage, Inese Sidraba, Lauma Lindina, Laimons Bidermanis, Inta Barbane
10:45 - 10:50	[P 27] Rheological Characterization of Cement Oil Suspensions Abderrahmane MELLAK
10:50 - 10:55	[P 14] Modeling strain and dielectric hysteretic type dependences in polycrystalline ferroelectrics by methods of two-level continuum Alexander Skaliukh

COFFEE BREAK + POSTRES II

POSTRES SESSION II.

[P 40]	System Li,Na,K,Rb,Cs,La,Pu F for the Generation IV Nuclear Technology: T-x-y Diagrams Vasily Lutsyk, Anna Zelenaya, Marina Lamueva
[P 41]	Data Correction for Lead-Free Solders Vasily Lutsyk, Vera Vorob'eva, Svetlana Shodorova
[P 42]	3D Diagrams for "Immiscibility Gap Technology" Vasily Lutsyk, Anna Zelenaya
[P 38]	Optical microrheology measurements for determination of sol-gel transitions of chitosan hydrogels Piotr Domagalski, Magdalena Orczykowska, Piotr Owczarz, Marek Dziubinski
[P 44]	An olive oil/policosanol organogel for Ferulic Acid controlled delivery Francesca R. Lupi, Domenico Gabriele, Valeria Greco, Noemi Baldino, Pavle Mijovic, Francesco Puoci, Ortensia I. Parisi

HUNYADI JANOS HALL**ORAL PRESENTATIONS****SESSION 1**

Applied Rheology and Modeling of Clays, Minerals and Rocks
Chair: Prof. Dr. László A. GÖMZE – University of Miskolc (Hungary)

11:20 - 11:40	Seismic Based Rheological Parameters Provide Detailed Lithological and Structural Subsurface Images In Mining Exploration Zoltán Hajnal, Ernő Takács, Bhaskar Pandit
11:40 - 12:00	Rheological properties and stability of Latvian illite clay-glycerol suspensions Inga Dusenkova, Juris Malers, Liga Berzina-Cimdina
12:00 - 12:20	Rheological investigations of tailings of kimberlite ore dressing and numerical simulation of its behavior in PLAXIS Alexey Korshunov, Alexander Nevzorov
12:20 - 12:40	New Approach for Development of Rheological Relations for Saturated Porous Media Maxim G. Khranchenkov, Eduard M. Khranchenkov
12:40 - 13:00	Rheological Behavior of Clay-Additive Compounds István Kocserha, László A. Gömze

BUFFET LUNCH

ic-rmm1 CONFERENCE - DETAILED PROGRAM - THURSDAY

HUNYADI JANOS HALL	
ORAL PRESENTATIONS	
SESSION 2 AND 13 Applied Rheology of Polymer Melts Rheology of Construction Materials and Concretes <i>Chair: Dr. Ivica DURETEK- Montanuniversitaet Leoben (Austria)</i>	
14:00 - 14:20	Rheological properties of wood polymer composites and their role in extrusion I. Duretek, S. Schuschnigg, A. Gooneie, G.R. Langecker, C. Holzer
14:20 - 14:40	Numerical Simulation of Axial Crushes of Multiple Corners Square Composites Cotton Fiber Reinforced Propylene Azrol Jailani, Akbar Othman
14:40 - 15:00	Investigate of the possibility of TEKCAST method application for Polymeric Materials Casting Harold Mäsiar, Igor Barényi, Ondrej Híreš, Peter Liptak
15:00 - 15:20	Correlation between Rheotens Measurements and Reinforcement of Polymer Nanocomposites in the Injection Molding Compounder Markus G. Battisti, I. Duretek, W. Friesenbichler, P. Guttman, G. Pinter
15:20 - 15:40	A Primary Study on the Creep Properties of Eucalypts Ying-she Luo, Biao Deng, Xian-jun Li, Yuan-rong Ma
15:40 - 16:00	Influence of mineral aggregates to the rheological properties of concrete mixture Albertas Klovas

COFFEE BREAK

HUNYADI JANOS HALL	
ORAL PRESENTATIONS	
SESSION 8 Rheological Fluid Mechanics <i>Chair: Prof. Dr. Dennis A. SIGINER - Universidad de Santiago de Chile (Chile)</i>	
16:20 - 16:40	Simulation of the variation in temperature in a material without and with default Kaddour Gherfi, Mohamed Chaour, Sofiane Boulkroune
16:40 - 17:00	Numerical study of secondary flows of FENE rheological models in curved ducts Joana M. Malheiro, Paulo J. Oliveira, Fernando T. Pinho
17:00 - 17:20	A new numerical framework to simulate viscoelastic free-surface flows with the finite-volume method Raphaël Comminal, Jon Spangenberg, Jesper Hattel
17:20 - 17:40	Inverse Design and Optimization of Magnetorheological Dampers and Resonance Modelling and Control Dennis A. Siginer, Mario F. Letelier

ic-rmm1 CONFERENCE - DETAILED PROGRAM - THURSDAY

BEATRIX HALL

ORAL PRESENTATIONS

SESSION 14

Rheology of Emulsions, Suspensions and Foams

Chair: Prof. Dr. Dr. Gisèle LECOMTER - ENSCI - Limoges (France)

11:20 - 11:40	The Effect of Fructose on Rheological Behavior of Alumina Dispersions Ozlem Caglar Duvarci, Muhsin Çiftçioğlu
11:40 - 12:00	Rheology & Thermal Stability of Ethoxylated Surfactants and there interaction with Polymers used for Enhanced Oil Recovery. Izhar Ahmed Malik, Usamah A. Al-Mubeiyedh, Ibn Al-Waleed, Abdullah Sultan
12:00 - 12:20	Rheological Properties of Liquid and Particle Stabilised Liquid Foam Aycan Özlem Özarmut, Holger Steeb
12:20 - 12:40	Rheological behavior of Pickering emulsions stabilized by phyllosilicates David Kpogbémabou, Gisèle Lecomte-Nana, Anne Aimable, Marguerite Bienia
12:40 - 13:00	Influence of the nature and the amount of surfactant on the rheological behavior of model phyllosilicate suspensions Nadia Houta, Gisèle-Laure Lecomte-Nana, Nicolas Tessier-Doyen, Claire Peyratout

BUFFET LUNCH

ic-rmm1 CONFERENCE - DETAILED PROGRAM - THURSDAY

BEATRIX HALL

ORAL PRESENTATIONS

SESSION 7

Multiscale Mechanics of Materials

Chair: Dr. Markus HÜTTER - Eindhoven University of Technology (The Netherland)

14:00 - 14:20	Structure, phase content and mechanical properties of aluminum with hard particles after shock-wave compaction Kulkov S., Vorozhtsov S
14:20 - 14:40	Plasticity in polymer glasses: from mesoscopic dynamics to macroscopic response Lambèrt C.A. van Breemen, Markus Hütter
14:40 - 15:00	Numerical Simulation of Dynamic Loading to Thin-Walled Corrugation Tube Aluminum 6061-T6 Alloy Akbar Othman, Azrol Jailani
15:00 - 15:20	Multiscale modelling heat transfer in two-phase composites Tomasz Sadowski, Przemysław Golewski
15:20 - 15:40	FEM Simulation of the Size- and Constraining Effect in Lead- Free Solder Joints in the Framework of Strain Gradient Elasticity Martin Lederer, Julien Magnien, Golta Khatibi, Brigitte Weiss
15:40 - 16:00	Fluctuation-based flow-rule for viscoplastic flow and rate-dependent strain hardening of solid polymers Markus Hütter, Theo A. Tervoort

COFFEE BREAK

SESSION 15

Multiscale Mechanics of Materials

Chair: Prof. Dr. Sergei KULKOV - Institute of Strength Physics SB RAS (Russia)

16:20 - 16:40	Modelling of a magnetorheological fluid under shear deformation Martin Boisly, Markus Kästner, Jörg Brummund, Volker Ulbricht
16:40 - 17:00	Mechanical Loss in Multiferroic Materials at High Frequencies: Friction and the Evolution of Ferroelastic Microstructures Z. Zhao, X. Ding, J. Sun, T. Lookman, L. Gao, E.K.H. Salje,
17:00 - 17:20	Magnetorheology of the carbonyl iron/ZnO rod-like microparticle suspensions Miroslav Mrlík, Michal Machovský, Vladimír Pavlínek, Ivo Kuřitka
17:20 - 17:40	Determination of the liquid steel viscosity curves using a high temperature rheometer Marta Korolczuk-Hejnak, Piotr Migas
17:40 - 18:00	Rheology of novel magnetic fiber suspensions Modesto T. López-López, Laura Rodríguez-Arco, Juan D.G. Durán, Pavel Kuzhir, Andrey Zubarev

ic-rmm1 CONFERENCE - DETAILED PROGRAM - FRIDAY

October 11. Friday	HUNYADI JÁNOS HALL	BEATRIX HALL
9:00 – 10:20	PLENARY 11 and 12	
10:20 – 11:10	SHORT ORALS III.	
11:10 – 11:40	COFFEE BREAK.	
11:40 – 13:00	SESSION 14	SESSION 12

HUNYADI JANOS HALL

PLENARY LECTURES

Chair: Prof. Dr. Segrei N. KULKOV

Institute of Strength Physics SB RAS (Russia)

PLENARY LECTURE 12

9:00 - 9:40	Statement and Resolution of Generalized Orr-Sommerfeld Equation Prof. Dr. Blaise NSOM - Université de Bretagne Occidentale (France)
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PLENARY LECTURE 13

9:40 - 10:20	Rheological Bases of Development Materials with Extreme Dynamic Strengths Prof. Dr. László A. GÖMZE - University of Miskolc (Hungary)
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SHORT ORALS III.

10:20 - 10:25	[P 03] Influence of grinding times on rheological and compacting properties of alumina and calcium-phosphate powder mixtures Viktória Veréb, László A. Gömze
10:25 - 10:30	[P 04] Monitoring of vulcanization process using measurement of electrical properties during linear increasing temperature Emil Seliga, Ondrej Bošák, Pavel Košťál, Zdeněk Dvořák, Marián Kubliha, Stanislav Minárik, Vladimír Labaš
10:30 - 10:35	[P 08] Preliminary observations on the effects of milk fortification with conjugated linoleic acid in yogurt preparation Salamon Rozália Veronika, Albert István, András Csaba Dezső, Csapó János, Constanța Ibănescu
10:35 - 10:40	[P 13] Theoretical and experimental studies of bending deformation in fivefold twinned silver nanowires Jakob Jögi, Leonid Dorogin, Sergei Vlassov, Boris Polyakov, Ilmar Kink, Alexey Romanov, Jaan Kalda, Ants Lõhmus
10:40 - 10:45	[P 17] Rheological Model for Slipping Phenomena in Polymeric Fluids and her Application for Flows in a Channel with a Square Cross-section Ivan Pyshnograï
10:45 - 10:50	[P20] Investigation of aluminium-steel joints formed by explosion welding process Tunde Kovacs-Coskun, Balint Volgyi, Istvan Sikari-Nagl
10:50 - 10:55	[P 21] Rheological regional properties of brain tissue studied under cyclics creep/ recovery shear stresses Boudjemaa Fatiha, Lounis Mourad, Bessai Naima, Khelidj Benyoucef
10:55 - 11:00	[P 24] Natural materials to enhance rheological and mechanical properties of light cement for oil wells M.Khodja-Saber; A. Mellak; T Bouziani; T.Sidane, M.Khodja

ic-rmm1 CONFERENCE - DETAILED PROGRAM - FRIDAY

11:00 - 11:05	[P 35] The influence of selected excipients on the rheological behaviour of chitosan based ocular pharmaceutical systems. Lívía Budai, Enikő Szabadi, Mária Hajdú, Marianna Budai, Imre Klebovich, István Antal
11:05 - 11:10	[P 39] Investigation of rheological properties of porcelain suspensions Kincsó Galatea Nagy, László A. Gömze

COFFEE BREAK

HUNYADI JANOS HALL	
ORAL PRESENTATIONS	
SESSION 14 Rheology of Emulsions, Suspensions and Foams <i>Chair: Dr. Ozlem Caglar DUVARCI – Izmir Institute of Technology (Turkey)</i>	
11:40 - 12:00	A Rheological Approach to Estimate floc Structure in Concentrated and Flocculated Suspensions. Suguru GOTOH, Masanobu ANDO, Toyoharu NAWA
12:00 - 12:20	Qualification methods of Al₂O₃ injection molding raw material Adam Egesz, Laszlo A. Gomze
12:20 - 12:40	Mineral admixture influence on thixotropic behaviour of light cement M.Khodja-Saber; A. Mellak; A.Benmounah; T.Sidane , M.Khodja
12:40 - 13:00	Flow of High Internal Phase Ratio Emulsions (HIPRE) through Converging Nozzles Kaan Kostak, Sümer Peker, Ilgar Gündüz, Ekrem Yorgancıoğlu

BEATRIX HALL	
ORAL PRESENTATIONS	
SESSION 12 Rheology of Biological Systems <i>Chair: Prof. Dr. Blaise NSOM - Université de Bretagne Occidentale (France)</i>	
11:40 - 12:00	Rheology of Fresh Blood Berrin İzikler, Sümer Peker, Banu Yener, Alp Alparslan, Şerife Helvacı
12:00 - 12:20	Rheology and Porosity Effect on the Proliferation of Pre-osteoblasts on Zirconia Ceramics Sergey Kulkov, Ales Buyakov, Svetlana Buyakova, Chrystalleni Hadjicharalambous, Maria Chatzinikolaidou
12:20 - 12:40	Numerical Simulation of Rheological, Chemical and Hydromechanical Processes of Thrombolysis Maxim G. Khramchenkov, Eduard M. Khramchenkov

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