

ic-cmt2 CONFERENCE DETAILED PROGRAM

October 11. Thursday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZÁNSZ HALL
8:10 – 8:50	PLENARY 8		
8:50 – 8:55	SHORT BREAK		
8:55 – 10:25	SESSION 1	SESSION 3	SESSION 10, 7 and 9
10:25 – 10:40	COFFE BREAK		
10:40 – 12:30	SESSION 14	SESSION 4	SESSION 9
12:30 – 13:20	BUFFET LUNCH		
13:30 – 15:30	SHORT ORAL BY POSTERS II.	-	-
15:30 – 15:50	COFFE BREAK		
15:50 – 18:00	SHORT ORAL BY POSTERS III.	-	-
19:00	ic-cmt2 PARTY		

HUNYADI JANOS HALL

PLENARY LECTURE 8

8:10 – 8:50	Materials Design of Hetero-Modulus Ceramics for Extreme Environments Based on Ridge Effect Phenomenon Prof. Dr. Igor L. SHABALIN (UK)
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SESSION 1

Advanced Materials for Bio- and Medical Applications Oral presentations

Chair: Prof. Dr. Viorica SIMON

8:55 - 9:25	Studies of Thin Hydroxyapatite Coatings at the Porous Alumozirconium Ceramics E.S. Semantsova, I. V. Shemyakina, A. M. Aronov, O.V. Medvedko
9:25 - 9:45	Layered Porous Materials of Gelatin and β-Tricalcium Phosphate for New Bone Regeneration Min-Ho Hong, Kwang-Mahn Kim, Kang-Sik Lee, Yong-Keun Lee
9:45 - 10:05	Scanning electron microscopic study of glass container degradation in infusion solutionx L. A. G6mze, J. Elek, V. Angyal
10:05 - 10:25	Processing and Properties of Bio-Ceramics Based on Oxides NANOPowders Sergey N. Kulkov, Svetlana P. Buyakova

ic-cmtp2 CONFERENCE DETAILED PROGRAM

SESSION 14

Processing and Properties of Silicate Ceramics

Oral presentations

Chair: Prof. Dr. Wenjie YUAN

10:40 - 11:10	Oriented silicate ceramic materials: characterization of anisotropic mechanical and thermal properties Julie Bourret, Nicolas Tessier-Doyen, Kevin Boussois, David Stanley Smith, Philippe Blanchart
11:10 - 11:30	Study on sintering and properties of Si₃N₄(SHS)/ α-SiC multiphase ceramics Jiang Yong, Wu lan-er, Huang Zhen-kun
11:30 - 11:50	Application of chemical treated illite clay for development of ceramic products G.Sedmale, A.Korovkins, V.Seglins, L.Lindina
11:50 - 12:10	Use of Thermal Imaging in Characterization of Ceramic Fiber Structures Matti Järveläinen, Lassi Keskinen, Erkki Levänen
12:10 - 12:30	Porous clay ceramic granules and their sorption ability Ruta Svinka, Liga Dabare, Visvaldis Svinka

SHORT ORAL II. presentations (posters) by SESSION 1, 2, 5

Chairs:

Prof. Dr. Anatoly ARONOV, Prof. Dr. László A. GÖMZE, Prof. Dr. Elzbieta GODLEWSKA

SESSION 1

Advanced Materials for Bio- and Medical Applications

13:30 - 13:35	Glucose oxidase self-encapsulated within polypyrrole research in fluorescence spectroscopy A. Ramanavicius, N. Ryskevici, A. Kausaite-Minkstimiene, U. Bubniene, A. Ramanaviciene
13:35 - 13:40	Sintering and structure formation of ceramics based on plasma-sprayed and chemically precipitated powders Anna V. Kozlova, Svetlana P. Buyakova, Sergey N. Kulkov
13:40 - 13:45	Deformation Behaviour of Porous Ceramics for Medicine Kalatur E., Buyakova S., Kulkov S.
13:45 - 13:50	Effects of Magnesium Ions on Proliferation and Differentiation of Human Bone Marrow Stroma Cells Kang-Sik Lee, Dong-Ho Lee, Jung-Hwa Kim, Jae-Suk Chang
13:50 - 13:55	Sustained Drug Releasing via Porous Channel from Hollow Hydroxyapatite Min-Ho Hong, Kwang-Mahn Kim, Kang-Sik Lee, Yong-Keun Lee
13:55 - 14:00	Properties of novel hemostat prepared using calcium-deficient hydroxyapatite, phosphoryl oligosaccharides of calcium and thermoplastic resin Tokio Mimura, Tomohiro Umeda, Yoshiro Musha, Kiyoshi Itatani
14:00 - 14:05	Influence of particle/agglomerate size on injectability of tricalcium phosphate bone cement pastes Paula M.C. Torres, Susana M. Olhero, Ajay Kaushal, Sandra Pina, José M.F. Ferreira
14:05 - 14:10	Hydroxyapatite/poly (lactic acid) hybrid microparticles as building blocks for additive technology Dagnija Loca, Evija Bula, Janis Locs, Arita Dubnika, Liga Berzina-Cimdina
14:10 - 14:15	Crystallization process of a biomaterial, the lithium disilicate, obtained from rice husk silica Felipe Antunes Santos, Maria Helena Figueira V. Fernandes, Erika Davim, Daltro Garcia Pinatti, Dolores Ribeiro R. Lazar, Claudinei dos Santos
14:15 - 14:20	Effect of sintering process parameters on the properties of 3Y-PSZ ceramic Cheng-Li Wang, Huey-Er Lee, Yu-You Sie, Weng Sing Hwang, Moo-chin Wang
14:20 - 14:25	A Liquid Crystal Based Glutaraldehyde Sensor Using Polymer Wall as a Support Structure

ic-cmtp2 CONFERENCE DETAILED PROGRAM

	Wei-Jiun Shian, Fu-Wei Chao, Shug-June Hwang
14:25 - 14:30	Characterization of Nanobiomaterials Adrienn Juhaszne-Szalai, Zita Lovrity, Janos Emmer, Bertalan Fodor
14:30 - 14:35	In vivo implantation of new porous ceramic granules Victor Rerikh, Artashes Avetisyan, Anatoliy Aronov, Ekaterina Semantseva, Vladimir Bataev, Aelita Nikulina

SESSION 2, 5

Advanced Materials for Extreme Applications

Lightweight Materials with Predesigned and Controlled Nanostructures

14:35 - 14:40	Zirconia-based nanopowders synthesized by ultrasonic-assisted precipitation method for extreme applications Ekaterina Klevtsova, Sergey N. Kulkov
14:40 - 14:45	ZrW₂O₈ in the sintered ceramic composites Elena Dedova, Sergey N. Kulkov
14:45 - 14:50	Effect of Mineral Raw Material Addition on the Properties of Cordierite Based Ceramics Ingunda Sperberga, Maris Rundans, Gaida Sedmale, Ints Steins
14:50 - 14:55	Phase content and structure of PSP-zirconia powders after annealing Alexey Kanaki, Sergey Kulkov, Svetlana Buyakova
14:55 - 15:00	The effect of thermal processing parameters on the microstructure of extruded and sintered TiO₂ ceramics Agnese Pura, Janis Locs, Indulis Freimanis, Liga Berzina-Cimdina
15:00 - 15:05	Properties changes of TiC_x after mechanical activation treatment Grigoriev, M.V., Molchunova L.M., Buyakova S.P., Kulkov S.N
15:05 - 15:10	Damage and Wear Resistance of Al₂O₃-CNT composites Fabricated by Spark Plasma Sintering Byung-Koog Jang, Yoshio Sakka, Kee-Sung Lee
15:10 - 15:15	Magnetron sputtering of TiN-Si₃N₄ ceramic layers on textiles Elzbieta Godlewska, Ryszard Mania, Krzysztof Mars
15:15 - 15:20	Effects of calcination Parameters on morphology and photo-electrical properties of titania nanotube arrays Rui Liu, Wein-Duo Yang, Liang-Sheng Qiang
15:20 - 15:25	Conductive, magnetic and structural properties of multilayer films Leonid N. Kotov, Viktor K. Turkov, Vladimir S. Vlasov, Yury E. Kalinin, Aleksandr V. Sitnikov
15:25 - 15:30	Microstructures and mechanical properties of ultrafine-grained Al-Zn alloys Tivadar Gyóri, Nguyen Q. Chinh, Dóra Laschober, Jenő Gubicz1, János Lábár, Károly Havancsák, Terence G. Langdon

ic-cmtp2 CONFERENCE DETAILED PROGRAM

SHORT ORAL III. presentations (posters) by SESSION 3, 4, 6,7, 9, 12, 13, 14 and 15

Chairs:

Prof. Dr. John M. PARKER, Prof. Dr. Igor L. SHABALIN, Prof. Dr. Philippe BLANCHART

SESSION 4, 6, 7

Hetero-Modulus and Hybrid Materials Materials with Extreme Dynamic Strength Membranes Science, Technology and Application

15:50 - 15:55	Materials Design of Functionally Graded Ultra-High Temperature Ceramics Based on "Ridge-Effect" Phenomenon Shabalin I.L., Wang Y, Zhang L
15:55 - 16:00	Peculiarities of mechanosynthesis carbides and borides of transition metals Maria Saviak
16:00 - 16:05	Making Silica-Carbon Nanotube Composite Materials for non-linear Optics J. Pilipavicius, N. Rusteika, A. Kausas, A. Beganskiene, A. Kareiva
16:05 - 16:10	The Analysis of an Innovative Wooden Folded Slab Behavior Dorina Isopescu, Calin Corduban, Nicolae Taranu
16:10 - 16:15	New Advanced SiC Ceramics Based on Natural Biomaterials László A. Gömze, Dóra Lipusz, Ludmila N. Gömze
16:15 - 16:20	Improving physico-mechanics and structural properties of salted light cements by naturals addings materials M.Khodja-Saber; A.Mellak; A.Benmounah ; T.Bouziani ; M.Khodja
16:20 - 16:25	Estimation of mathematical expectations and fluctuations of thermoelastic fields in heterogeneous mediums Oleksandr Fedoryshyn
16:25 - 16:30	The Effect of Microstructure on the Local Wear Behavior of Dual Phase Steels Tünde Kovács-Coskun
16:30 - 16:35	New galvanic technology for making of hybrid metal ceramics coatings Igor L. Shabalin, Oleksandr V. Derev'yanko, Anatoliy O. Kornienko, Miron V. Luchka
16:35 - 16:40	Influence of particle size distribution and volume fraction of mineral fillers on the rheological properties of asphalt mastics at temperatures between 60 °C-135 °C Géber Róber, László A. Gömze
16:40 - 16:45	Can the topology of the carbon nanotube junction determine the mechanical behaviour? Tamás Pataki, Ibolya Zoldos
16:45 - 16:50	Hetero-Molulus and Hetero-Viscous Alumina Matrix Composites with Extreme Dynamic Strength László A. Gömze, Ludmila N. Gömze,
16:50 - 16:55	Oxide-hydroxide zirconia-alumina porous ceramics and it applications for membranes Ilya Zhukov

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SESSION 9, 13, 15

Novel Synthesis and Processing Technology Silicon and Organosilicon Compounds in the Living World Polymer Derived Ceramics

16:55 - 17:00	Preparation of alpha-alumina nanoparticles with various shapes via hydrothermal phase transformation under supercritical water conditions Yukiya Hakuta, Naofumi Nagai, Yo-hei Suzuki, Tetsuya Kodaira, Kyoko K. Bando, Hiroshi Takashima, Fujio Mizukami
17:00 - 17:05	Preparation of compositionally graded hollow spherical particles of hydroxyapatite/potassium silicate by spray-drying Kazuki Shibosawa, Takeshi Toyama, Nobuyuki Nishimiya
17:05 - 17:10	Scanning Tunneling Microscopy Study of Fe(CO)₅ and Fe(C₅H₅)₂ Adsorption on Si(111)7×7 Abdelbaki Chemam
17:10 - 17:15	Enhanced sintering of SiC using infiltration of preceramic polymer Young Kim

SESSION 3, 12, 14

Processing and Properties of Silicate Ceramics Glasses and Related Materials Polymer and Clay Nanocomposites

17:15 - 17:20	Evaluation of ceramic/ceramic (SiC/SiC & Al₂O₃/Al₂O₃) joint interface prepared via brazing A. Ghazi Daryani, A. Nemati
17:20 - 17:25	The Effect of Adding TiO₂ on Synthesis of Al₄SiC₄ powder Chao Yu, Cheng-Ji Deng, Wenjie Yuan, Hong-Xi Zhu
17:25 - 17:30	The Effect of Si contents on the reaction-bonded Si₃N₄/SiC composite ceramics Jun Li, Hong-Xi Zhu, Wenjie Yuan, Shuo Wang, and Cheng-Ji Deng
17:30 - 17:35	Building ceramic based on sludge Anna-Mária Szőke, Marcela Muntean, Ovidiu Dumitrescu, Ildikó Bartalis
17:35 - 17:40	Investigation of the properties of porcelain and stoneware ingredients Andrea Simon
17:40 - 17:45	Typical Defects on Automobil Windscreens at the Interfaces of Silver Coatings, Copper Filaments and Glasses László A. Gömze, István Kocserha, Róbert Géber
17:45 - 17:50	Lithium disilicate based glasses and glass ceramics in the Li₂O-SiO₂-Al₂O₃-K₂O system Hugo R. Fernandes, Dilshat U. Tulyaganov, José M.F. Ferreira
17:50 - 17:55	Fabrication of transparent sintered ZnO-B₂O₃-Bi₂O₃ glass body by pressureless firing and hot isostatic pressing Kaori Abe, Hideki Kuwahara, Kiyoshi Itatani
17:55 - 18:00	Study of Bi₂O₃ nucleated melilite based glasses and glass-ceramics for functional application Allu Amarnath Reddy, Dilshat U. Tulyaganov, Saurabh Kapoor, Maria J. Pascual, José M. F.Ferreira
18:00 - 18:05	Investigations on thermal, optical and structural properties of phosphate glasses containing terbium ions Mihai Elisa, Bogdan Alexandru Sava, Ileana Cristina Vasiliu, R. C. C. Monteiro, Luminita Ghervase, Ionut Feraru, Claudiu Tanaselina, M. Senila, B. Abraham
18:05 - 18:10	The Carbon Nanotubes Formation at Room Temperature as a Result of the Detachment of the Gold Nanolayer Fragment from the Glass Substrate Olga N. Sidelnikova, George A. Pozdnyakov, Aleksey N. Salanov

ic-cmtp2 CONFERENCE DETAILED PROGRAM

18:10 - 18:15	Cu-Hf-Al amorphous/nanocrystalline composite particles produced by milling Mária Svéda, Kinga Tomolya, Dóra Janovszky, Jenő Sólyom
18:15 - 18:20	Modified Tapioca Starch as a Rheology Modifier in Acrylic Dispersion Nantana Jiratumnukul, Thidarat Makmoon, Asira Foungfuchat
18:20 - 18:25	Poly(lactic acid) Nanocomposite Coating for Paper Coating Applications Nantana Jiratumnukul, Tatcha Sonjui

BEATRIX HALL

SESSION 3

Glasses and Related Materials

Oral presentations

Chair: Prof. Dr. John M. PARKER

8:55 - 9:25	Effect of La₂O₃, Nb₂O₅, Bi₂O₃ additives on optical and thermal properties of boron silicate glasses H. J. Lin, M. L. Cheng
9:25 - 9:45	The influence of form release agent application to the quality of concrete surfaces Albertas Klovas, Mindaugas Dauksys
9:45 - 10:05	Topological Methods For Estimation Of Technological Properties Of Quartz Raw Materials Elena Kotova
10:05 - 10:25	Alkali-silica reactivity of expanded glass granules in structure of lightweight concrete Girts Bumanis, Diana Bajare, Janis Locs

SESSION 4

Hetero-Modulus and Hybrid Materials

Oral presentations

Chair: Prof. Dr. Igor L. SHABALIN

10:40 - 11:10	Nano-architecture Control of Hybrid Materials for Advanced Pressure Sensors Tohru Sekino, Youn-Gyu Han, Tadachika Nakayama, Kotaro Kawahara, Koji Murata, Yoshiyuki Hamahashi, Yoshihiro Okamoto, Koichi Niihara
11:10 - 11:30	Investigation of the structure of multiwall carbon nanotubes in polymer matrix Andrea Adamne Major, Karoly Belina
11:30 - 11:50	Effect of SrO on the microstructure of calcium zirconate Jacek Szczerba, Edyta Śnieżek, Dominika Madej, Ryszard Prorok
11:50 - 12:10	High Porosity Alumina as Matrix Material for Composites of Al-Mg Alloys L. A. Gömze, L. N. Gömze, Á. Egész, F. Ojima
12:10 - 12:30	Synthesis and Characterization of MgAl₂O₄ Nanopowders by a Reverse Micelle Processing Ho-Jung Kim, Min Cheol Chu, Seong Jai Cho, Dong-Sik Bae

RENEZANSZ HALL

SESSION 10, 7 and 9
Organo-Clay Complexes
Membranes Science, Technology and Application
Novel Synthesis and Processing Technology
Oral presentations
Chair: Dr. El-nahhal YASSER

8:55 - 9:25	Oxygen permeation through dense BSCF ceramic membranes: sulfur contamination issues A.A. Yaremchenko, A.V. Kovalevsky, C. Buysse, V. Middelkoop, F. Snijkers, A. Buekenhoudt, J.R. Frade
9:25 - 9:45	Using the resistivity measurements for controlling the effect of lime milk on dispersive soils Abdelkader Belarbi, Abdeldjalil Zadjoui, Abdelmalek Bekkouche
9:45 - 10:05	Removal of Organic Pollutant from Water by The Use Modified Bentonite Yasser El-Nahhal, Jamal Safi
10:05 - 10:25	Removal of phenols from water by use of layered double hydroxides Butenko E., Kapustin A.

SESSION 9
Novel Synthesis and Processing Technology
Oral presentations
Chair: Prof. Dr. Sergey KULKOV

10:40 - 11:10	Scientific and Technological Aspects of Obtaining Ultradispersed and Mesoporous Powders of Metal Oxides, Metal Silicates and Composites by Wet and Combined Methods Elena A. Trusova, Nikolay S. Trutnev
11:10 - 11:30	Out-of-furnace synthesis of high-temperature ceramic materials in the revolving reactor Ardak Aynabaev, Mikhail Arkhipov, Anna Baydeldinova, Kainzhamal Omarova, Georgiy Ksandopulo
11:30 - 11:50	Ceramic and Hybrid Nanocomposite Materials Based on Intercalated Layered Titanates. Synthesis and Application Alexander Gorokhovskiy, Elena Tretyachenko, Vladimir Goffman, Jose Ivan Escalante-Garcia
11:50 - 12:10	Processing of Metal-Ceramic-Precursor Powders for Reaction Bonding and Reactive Sintering of Alumina-Composites Nadja Holstein, Katharina Wiegandt, Florian Holleyn, Jochen Kriegesmann, Rolf Janssen
12:10 - 12:30	-