

ic-cmtp2 CONFERENCE DETAILED PROGRAM

October 12. Friday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZÁNSZ HALL
8:10 – 8:50	PLENARY 9		
8:50 – 8:55	SHORT BREAK		
8:55 – 10:25	SESSION 3	SESSION 5	SESSION 9
10:25 – 10:40	COFFE BREAK		
10:40 – 12:30	SESSION 14	SESSION 6	SESSION 16

HUNYADI JANOS HALL

PLENARY LECTURE 9

8:10 – 8:50	Influence of Stratification of Mines on Technology and Properties of Ceramic Roof-tiles Prof. Dr. László A. GÖMZE (Hungary)
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SESSION 3

Glasses and Related Materials

Oral presentations

Chair: Prof. Dr. John M Parker

8:55 - 9:25	Controlling glass colour John M. Parker
9:25 - 9:45	Comparison of the Microstructure and Scratch Strenght of Thin Film Coatings on Glasses of Mirrors and Automobile Windscreens László A. Gömze, Ludmilla N. Gömze, István Kocserha
9:45 - 10:05	Point fixing of glass Kinga Pankhardt, Salem Georges Nehme
10:05 - 10:25	Light Scattering Glass Material Modified by Surface ion Exchange for Energy Efficient Using in Technical land Decorative Lightening Olga N. Sidelnikova, George A. Pozdnyakov, Aleksey N. Salanov

SESSION 14

Processing and Properties of Silicate Ceramics

Oral presentations

Chair: Prof. Dr. Wenjie YUAN

10:40 - 11:10	Anisotropic kinetic of the kaolinite to mullite reaction sequence in multilayer ceramics Boussois K., Tessier-Doyen N., Blanchart P.
11:10 - 11:30	Influence of mineralogy and chemical composition of brick clays on uniaxial compressive strength Ferenc Kristály, László A. Gömze
11:30 - 11:50	Rheology properties of clay-compounds István Kocserha, László A. Gömze
11:50 - 12:10	Determination of clay minerals species in brick clays and their quantification by Rietveld-refinement on X-ray powder diffraction measurements Ferenc Kristály, István Kocserha, László A. Gömze, Norbert Zajzon, Izabella Márkus
12:10 - 12:30	Effects of Diatomite on Water Resistance and Strength Development of Waste-based Gypsum Mix W. Buggakupta, P. Umponpanarat , K.Touchuen, W. Panpa

BEATRIX HALL**SESSION 5****Lightweight Materials with Predesigned and Controlled Nanostructures****Oral presentations****Chair: Prof. Dr. Elzbieta Godlewska**

8:55 - 9:25	A New Versatile Route to Ceramic Thin Films on Plastics: A Solution-Based “High-Temperature” Processing Hiromitsu Kozuka, Takafumi Fukui, Mitsuru Takahashi, Hiroaki Uchiyama, Akihiro Yamano
9:25 - 9:45	Nanostructured spray dried titanosilicate microspheres – structural and surface characterization S.Simon, O. Ponta, A. Cheniti, E. Vanea, P. Berce
9:45 - 10:05	Thermoelectric properties of Bi- and Ag-doped magnesium silicide prepared by self-propagating high-temperature synthesis Krzysztof Mars, Elzbieta Godlewska, Marzena Mitoraj, Kinga Zawadzka, Łukasz Zych, Ryszard Mania
10:05 - 10:25	Alumina with different porosity and the crystallites sizes Grigoriev, M.V., Kulkov S.N.

SESSION 6**Materials with Extreme Dynamic Strength****Oral presentations****Chair: Prof. Dr. László A. GÖMZE**

10:40 - 11:10	Ballistic Performance of Armour Ceramics on the Base of Alumina with Different Additives Ekaterina Chaplina, Victor Mukhin, Alexander Bogaev
11:10 - 11:30	Multiscale Modelling of Gradual Degradation in CMC with Application to TBC of Turbine Blades Tomasz Sadowski, Przemysław Golewski
11:30 - 11:50	High and low-energy activations of nano-zirconia based systems S.Kulkov, S.Buyakova
11:50 - 12:10	Fracture behaviour of TiC particles reinforced titanium matrix composites under fretting loading Jeremy Duhart, Siegfried Fouvry
12:10 - 12:30	Ceramic Based Light Weight Composites with Extreme Dynamic Strength László A. Gömze, Ludmilla N. Gömze

RENEZANSZ HALL**SESSION 9****Novel Synthesis and Processing Technology****Oral presentations****Chair: Prof. Dr. Elena TRUSOVA**

8:55 - 9:25	Formation of Nanostructures in Brittle Materials with Transformations Sergey Kulkov
9:25 - 9:45	Synthesis and Characterization of MgAl₂O₄ Nanopowders by a Reverse Micelle Processing Ho-Jung Kim, Min Cheol Chu, Seong Jai Cho, Dong-Sik Bae
9:45 - 10:05	Synthesis and Application of Plate-like Titanate/Cobalt Blue Composite Pigment Shu Yin, Lu Yang, Xiangwen Liu, Takahiro Goto, Qiang Dong, Tsugio Sato
10:05 - 10:25	Spontaneous Formation of Micrometer-Scaled Cell-like Patterns on Alkoxide-Derived Silica Films Induced by Bénard-Marangoni Convection Hiroaki Uchiyama, Yuto Mantani, Hiromitsu Kozuka

SESSION 16**Nanomaterials for Environment and Health****Oral presentations****Chair: Prof. Dr. Tsugio SATO**

10:40 - 11:10	Preparation and characterization of CeO₂-ZrO₂-M_xO_y (M=Sn, Al) solid solutions for the three-way catalytic application Qiang Dong, Shu Yin, Tsugio Sato
11:10 - 11:30	Butterfly wing scale nanostructures as selective optical gas / vapor sensors Gábor Piszter, Krisztián Kertész, Zsolt Bálint, Emma Jakab, Zofia Vértesy, László Péter Biró
11:30 - 11:50	Bacterial Growth on a Superhydrophobic Surface Containing Silver Nanoparticles Saara Heinonen, Juha-Pekka Nikkanen, Mari Raulio, Outi Priha, Erkki Levänen
11:50 - 12:10	Control of the Oxygen Storage Capacity of Ceria for Environmental Cleanup and Human Health Tsugio Sato, Qiang Dong, Shu Yin
12:10 - 12:30	Photocatalytic Active Titanium Dioxide Nanopowders: Synthesis, Photoactivity and Magnetic Separation of the Powder Juha-Pekka Nikkanen, Saara Heinonen, Elina Huttunen-Saarivirta, Mari Honkanen, Erkki Levänen