

ic-cmtp2 CONFERENCE DETAILED PROGRAM

October 9. Tuesday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZÁNSZ HALL
8:10 – 8:50	PLENARY 6		
8:50 – 8:55	SHORT BREAK		
8:55 – 10:25	SESSION 1	SESSION 2	SESSION 11
10:25 – 10:40	COFFE BREAK		
10:40 – 12:30	SESSION 13	SESSION 2	SESSION 8
12:30 – 13:20	BUFFET LUNCH		
13:20 – 19:30	SOCIAL and FREE PROGRAM		

HUNYADI JANOS HALL

PLENARY LECTURE 6

8:10 – 8:50	Are Bacteria Able to Synthesise Kaolinite? Prof. Dr. Saverio Fiore (Italy)
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SESSION 1

Advanced Materials for Bio- and Medical Applications

Oral presentations

Chair: Prof. Dr. Anatoly ARONOV

8:55 - 9:25	Is the ubiquitous presence of barium carbonate responsible for the poor aqueous processing ability of barium titanate? José M.F. Ferreira, Susana M. Olhero
9:25 - 9:45	Nanostructured Cermic Materials for Traumatology and Orthopedics Applications Viktor Rerikh
9:45 - 10:05	The influence of CeO₂ addition on the physical, mechanical and biological properties of alumina/zirconia ceramics Simona Cavalu, Viorica Simon, Cristian Ratiu, Ipek Akin, Gultekin Goller
10:05 - 10:25	Observation of cellular uptake behavior of layered double hydroxide nanoparticles possessing visualization probe characteristics Miyuki Tanaka, Sumio Aisawa, Hidetoshi Hirahara, Eiichi Natira, Shu Yin , Sugio Sato

SESSION 13

Polymer Derived Ceramics

Oral presentations

Chair: Prof. Dr. Michael SCHEIFFLER

10:40 - 11:10	Environmental Barrier ceramic composite coatings Günter Motz, Martin Günthner, Kaishi Wang, Rajendra K. Bordia
11:10 - 11:30	Polymer derived ceramic protection coatings for heat recovery materials Anna Fedorova, Stefan Grunig, Günter Motz, Jörg Nitzsche, Andre Prette, Stefan Rannabauer, Holger Werbig, Marcus Wiersig, Matthias Wersch, Michael Scheffler
11:30 - 11:50	Microstructural Characterization of Meso- and Nanoporous Ceramics by Scanning Probe Microscopy A. Ponomareva, V.A. Moshnikov, G. Suchaneck
11:50 - 12:10	Net-like demixing structures from preceramic polymers: a study of physical and chemical base parameters of the substrate/coating system A. Laskowsky, P. Thiem, S. Cung, M. Woiton, M. Heyder, E. Stern, M. Schefflera
12:10 - 12:30	Microstructure and thermal behavior of novel Alumina/mullite composite materials Valetine Kubong Atanga, Paul Rosemann, Michael Scheffler

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BEATRIX HALL

SESSION 2

Advanced Materials for Extreme Applications

Oral presentations

Chair: Prof. Dr. László A. GÖMZE

8:55 - 9:25	First-principles Modeling of Defects Behavior of Ceramic Fuels Under Irradiation Ying Chen, Hua Y. Geng, M. Kinoshita, Shuichi Iwata
9:25 - 9:45	Direct Synthesis of Large Scale AlN Sheet Jae-Hwan Pee, Yoo-Jin Kim, Woo-Seok Cho, Gyeong-Ja Kim
9:45 - 10:05	Multilayered nanocrystalline CrN/TiAlN/MoS₂ tribological thin film coatings: processing and characterization S. Papp, A. Kelemen, L. Jakab-Farkas and D. Biró
10:05 - 10:25	Influence of metakaolin on chemical resistance of concrete Lilla Mlinárik, Katalin Kopecskó

SESSION 2

Advanced Materials for Extreme Applications

Oral presentations

Chair: Prof. Dr. Ying CHEN

10:40 - 11:10	Advanced Materials for Automotive Application Miklós Tisza
11:10 - 11:30	Synthesis and Piezoelectric Properties of Ba_{1-x}Li_xTiO_{3-x/2} by a Solvothermal Approach Takeshi Kimura, Shu Yin, Takatoshi Hashimoto, Atsushi Sasaki, Tsugio Sato
11:30 - 11:50	Multilayer Magnetic Circuit for Millimeter Scale MEMS Air Turbine Generator Minami Takato, Akane Iizuka, Masato Kaneko, Tatsuya Nishi, Ken Saito, Fumio Uchikoba
11:50 - 12:10	Slipping properties of ceramic tiles /Quantification of slip resistance Anita Terjék
12:10 - 12:30	High performance concrete pavement on bridges Tamás Kovács

RENEZANSZ HALL**SESSION 11****Phase Diagram as a Tool of Materials Science****Oral presentations****Chair: Prof. Dr. Vasily LUTSYK**

8:55 - 9:25	Phase stabilities and phase diagram in ternaries systems based on titanium: Experimental investigations, ab initio calculations and Calphad modeling Jean -Claude Tedenac, Vanya Gandova, Philippe Jund, Iuliia Fartushna, Marina Bulanova, Catherine Colinet
9:25 - 9:45	Crystallization paths in SiO₂-Al₂O₃-CaO system as a genotype of silicate materials Vasily Lutsyk, Anna Zelenaya
10:05 - 10:25	Magnetic nano-spheres from a non-magnetic material: a possible explanation Endre Kovács, Réka Trencsényi, Zsolt Gulácsi
9:45 - 10:05	New Phase Regions of Ir-Ru-Ti System with Eutectic-Peritectic Transformations Vasily Lutsyk, Vera Vorobjeva

SESSION 8**Minerals for Environmental and Medical Applications****Oral presentations****Chair: Prof. Dr. Saverio FIORE**

10:40 - 11:10	Clay Minerals: Adsorbophysical Properties Olga Kotova
11:10 - 11:30	The role of phosphorus in the archaeometallurgy of iron Béla Török , Adam Thiele
11:30 - 11:50	Development of synthetic and natural mineral based adsorptive and filter media containing cyclodextrin moieties Endre Andersen, Ilona Rácz, György Bánhegyi, Éva Fenyvesi, Erzsébet Takács
11:50 - 12:10	The Effects of Mineralogical and Petrographical Features of The Lake District Rocks (Isparta, Turkey) on The Quality of Artificial Marbles A. Bilgin, G. Yuceturk, S.Arslan, N.Bilgin, S. Polat
12:10 - 12:30	Leucoxene and TiO₂ photocatalysts for water purification Alexey Ponaryadov, Olga Kotova