

## ic-cmtp2 CONFERENCE DETAILED PROGRAM

October 10. Wednesday	HUNYADI JÁNOS HALL	BEATRIX HALL	RENEZÁNSZ HALL
8:10 – 8:50	PLENARY 7		
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 14	SESSION 13	SESSION 8
12:30 – 13:20	BUFFET LUNCH		
13:20 – 19:30	SOCIAL and FREE PROGRAM		

### HUNYADI JANOS HALL

#### PLENARY LECTURE 7

8:10 – 8:50	<b>Inorganic One-Dimensional Nanostructured Materials</b> Prof. Dr. Djamila HOURLIER (France)
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#### SESSION 1

#### Advanced Materials for Bio- and Medical Applications

#### Oral presentations

Chair: Prof. Dr. José M. FERREIRA

8:55 - 9:25	<b>Surface structure and corrosion properties of calcium-phosphate glasses and vitroceramics in simulated body fluids</b> V. Simon, R. Ciceo-Lucacel, S. Cavalu
9:25 - 9:45	<b>Binding of leachable components of polymethyl methacrylate (PMMA) and peptide on modified SPR chip</b> Melinda Szalóki, Géza Vitályos, Jolán Hársfalvi, Csaba Hegedűs
9:45 - 10:05	<b>Analysis of Benzoyl-peroxide and Formaldehyde as dental allergens by FT-SPR method</b> József Bakó, Máté Kelemen, Csaba Hegedűs
10:05 - 10:25	<b>Hydrothermal degradation of 3Y-TZP zirconia ceramic with ternary and quaternary oxide additions</b> L. Shirkhan, W.M. Rainforth

#### SESSION 14

#### Processing and Properties of Silicate Ceramics

#### Oral presentations

Chair: Prof. Dr. Philippe BLANCHART

10:40 - 11:10	<b>Synthesis of Al<sub>4</sub>SiC<sub>4</sub> powders from kaolin grog, aluminum and carbon black by carbothermal reaction</b> Wen-Jie Yuan, Chao Yu, Cheng-Ji Deng, Hong-Xi Zhu
11:10 - 11:30	<b>Application of chemical treated illite clay for development of ceramic products</b> G.Sedmale, A.Korovkins, V.Seglins, L.Lindina
11:30 - 11:50	<b>The effect of Acid Boric addition on Sintering Kinetics of Ceramic Tiles</b> O.Cengiz, A.Kara
11:50 - 12:10	<b>Properties of Porous Mullite Ceramics Doped with WO<sub>3</sub></b> Ludmila Mahnicka, Ruta Svinka, Visvaldis Svinka
12:10 - 12:30	<b>Mechanochemical Phenomenons Observed During Grinding of Conventional Brick Clays</b> László A. Gömze

**BEATRIX HALL****SESSION 2****Advanced Materials for Extreme Applications****Oral presentations****Chair: Prof. Dr. Miklós TISZA**

<b>8:55 - 9:25</b>	<b>Ceramic Reinforced Heteromodulus Light Metal Composites with Extreme Hardness and Wear Resistances</b> László A. Gömze, Ludmila N. Gömze
<b>9:25 - 9:45</b>	<b>Oxide Thermoelectric Materials Promising for Heat-to-Electricity Direct Conversion from Mid-to-High Temperature Waste Heat</b> Michitaka Ohtaki
<b>9:45 - 10:05</b>	<b>High-speed wear testing of selected ceramics in abrasive slurry</b> Arnold Ismailov, Erkki Levänen
<b>10:05 - 10:25</b>	<b>The impact of work environment on chemical and phase composition changes of magnesia-spinel refractories used as refractory lining in secondary metallurgy device</b> Jacek Szczerba, Dominika Madej, Zbigniew Czapka

**SESSION 13****Polymer Derived Ceramics****Oral presentations****Chair: Dr. Güntner MOTZ**

<b>10:40 - 11:10</b>	<b>Structure and performance of polymer-derived bulk ceramics determined by method of filler incorporation</b> Thomas Konegger, Antje Liersch
<b>11:10 - 11:30</b>	<b>Novel carbon nanotube reinforced polymer derived ceramics by FAST sintering processing</b> Niko Mantzel, Stefan Rannabauer, Ethel C. Bucharsky, Karl G. Schell, Michael J. Hoffmann, Michael Scheffler
<b>11:30 - 11:50</b>	<b>Polycarbosilazane coatings on graphite foil used as gasket seal</b> Andre Prette, Michael Kolb, Octavio Flores, Martin Günthner, Günter Motz
<b>11:50 - 12:10</b>	<b>Polymeric and ceramic micro-and nanospheres from preceramic polymers</b> Verena Reschke, Michael Scheffler
<b>12:10 - 12:30</b>	<b>Novel PDC based composite coating system for application in power plants</b> Güntner Motz,

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**RENEZANSZ HALL****SESSION 11****Phase Diagram as a Tool of Materials Science****Oral presentations****Chair: Prof. Dr. Jean-Claude TEDENAC**

<b>8:55 - 9:25</b>	<b>Development of Advanced Materials Based on Phase Diagrams</b> Kiyohito Ishida
<b>9:25 - 9:45</b>	<b>Magnetic Measurement of Phase Transformations in Lean Duplex Stainless Steel</b> István Meszáros
<b>9:45 - 10:05</b>	<b>Phase Equilibria in the Na,K//SO<sub>4</sub>,CO<sub>3</sub>,HCO<sub>3</sub> -H<sub>2</sub>O System at 50°C</b> Sh.Tursunbadalov and L.Soliev
<b>10:05 - 10:25</b>	<b>Complex sulfides, as a new class of advanced synthetic materials</b> Oleg V. Andreev, Illaria A. Razumkova

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

<b>10:40 - 11:10</b>	<b>Zeolite formation in a lead (Pb) polluted soil treated with fly ash and its implication in the environmental remediation</b> Claudia Belviso, Francesco Cavalcante, Antonio Lettino , Pietro Ragone, Saverio Fiore
<b>11:10 - 11:30</b>	<b>Selective adsorption of Cd<sup>2+</sup> ions from aqueous systems using acid-activated clay: Simultaneous effect of treatment and temperature</b> K. Belhocine, S. Chegrouche, Makhlof Boufatit
<b>11:30 - 11:50</b>	<b>Changes of colour and water-absorption of Hungarian porous limestone due to biomineralization</b> Péter Juhász, Katalin Kopecskó
<b>11:50 - 12:10</b>	<b>Contribution to thermodynamic and kinetic investigations of Pb<sup>2+</sup> adsorption onto acid-activated clay</b> K. Belhocine, S. Chegrouche, Makhlof Boufatit
<b>12:10 - 12:30</b>	<b>Electrospun nanofibers of PVP based Sodium Cobaltite</b> Muzzamil H. Shah, Muhammad Anis-ur-Rehman, Awais S. Saleemi, Ali Abdullah