



**Rosov pin 2014**

## **General conference program**

### Thursday, October 23<sup>th</sup> 2014

- 08<sup>00</sup>-09<sup>00</sup> Registration
- 09<sup>00</sup>-09<sup>30</sup> Opening ceremony
- 09<sup>30</sup>-11<sup>15</sup> Plenary lectures
- 11<sup>15</sup>-11<sup>35</sup> Coffee break
- 11<sup>35</sup>-13<sup>40</sup> Invited lectures
- 13<sup>40</sup>-15<sup>30</sup> Lunch break
- 15<sup>30</sup>-17<sup>10</sup> Invited lectures
- 18<sup>00</sup>-19<sup>30</sup> Poster session
- 20<sup>00</sup> Gala dinner

### Friday, October 24<sup>th</sup> 2014

- 09<sup>00</sup>-10<sup>45</sup> Plenary lectures
- 10<sup>45</sup>-11<sup>15</sup> Coffee break
- 11<sup>15</sup>-13<sup>20</sup> Invited lectures
- 13<sup>30</sup>-14<sup>00</sup> Closing ceremony and awards

## Program of lectures

Thursday, October 23<sup>th</sup> 2014

### Plenary lectures: 09<sup>30</sup>-11<sup>15</sup> (Amfiteatar I)

Chairmen: Vesna Babić-Ivančić , Vukoman Jokanović

09<sup>30</sup>-10<sup>05</sup> **Basic principles of materials design in refractory, process technology and nanomedicine, based on nanotechnology**

Vukoman Jokanović

*The Vinča Institute of Nuclear Sciences, Belgrade, Serbia*

10<sup>05</sup>-10<sup>40</sup> **Mechanisms of *in vitro* and *in vivo* crystallization of calcium phosphates**

Vesna Babić-Ivančić

*The Ruđer Bošković Institute, Zagreb, Croatia*

10<sup>40</sup>-11<sup>15</sup> **Plasma - PVD technology: customized nano coatings for solar applications**

Ilija Nasov

*Institute of Physics, St. Cyril and Methodius University, Skopje, Macedonia*

Break until 11<sup>35</sup>

### Invited lectures: 11<sup>35</sup>-13<sup>40</sup>

#### Section: Refractory (Amphitheater I)

Chairmen: Tatjana Volkov-Husović, Mirko Gojić

11<sup>35</sup>-12<sup>00</sup> **Implementation of non-destructive methods for monitoring the degradation of refractory materials exposed to thermal shock**

Tatjana Volkov Husović

*Faculty of Technology and Metallurgy, Belgrade, Serbia*

12<sup>00</sup>-12<sup>25</sup> **Refractory materials used in the process of lead production**

Branko Nikolić

*Engineering Academy of Serbia*

- 12<sup>25</sup>-12<sup>50</sup> **The mineral raw materials and methods of their preparation for the use in the refractory and process industry**  
Ljubiša Andrić  
*Institute for Technology of Nuclear and Other Mineral Raw Materials, Belgrade, Serbia*
- 12<sup>50</sup>-13<sup>15</sup> **Refractory and ceramic resources of Bosnia and Herzegovina**  
Amir Baraković  
*Faculty of Mining, Geology and Civil Engineering, Tuzla, Bosnia and Herzegovina*
- 13<sup>15</sup>-13<sup>40</sup> **Refractory in cement industry**  
Goran Lazić  
*Lafarge BFC, Beočin, Serbia*

**Section: Process industry (Hall II)**

Chairmen: Željko Kamberović, Anka Trajkovska Petkoska

- 11<sup>45</sup>-12<sup>10</sup> **Copper, nickel and alumina based nanocomposites: different architectures and applications**  
Željko Kamberović  
*Faculty of Technology and Metallurgy, Belgrade, Serbia*
- 12<sup>10</sup>-12<sup>35</sup> **Impact of roughness of Zn-Mn coatings on corrosive stability**  
Milorad Tomić  
University of Eastern Sarajevo, Faculty of Technology Zvornik, Republic of Srpska
- 12<sup>35</sup>-13<sup>00</sup> **Polymer surface engineering by using advanced nanotechnology**  
Anka Trajkovska Petkoska  
*The St. Clement of Ohrid University of Bitola, Macedonia*

Break until 15<sup>30</sup>

**Invited lectures: 15<sup>30</sup>-17<sup>10</sup>**

**Sections: Refractory and Process industry (Amphitheater I)**

Chairmen: Amir Baraković, Mira Vukčević

15<sup>30</sup>-15<sup>55</sup> **Harmonization of European regulations and standards (EN) and the national standards (SR) in the field of refractory materials**

Sanja Martinović

*Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia*

15<sup>55</sup>-16<sup>20</sup> **Low cement concrete: composition, properties and application**

Milica Vlahović

*Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia*

16<sup>20</sup>-16<sup>45</sup> **Catalysts: from nanotechnology to the application**

Nenad Radić

*Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia*

16<sup>45</sup>-17<sup>10</sup> **Improving the quality of new supplementary materials for arc welding**

Nikola Bajić

*Institute for Chemical Power Sources, Belgrade, Serbia*

**Section: Nanotechnologies (Hall II)**

Chairmen: Dušan Milivojević, Božana Čolović

15<sup>30</sup>-15<sup>55</sup> **Surface active substances in the synthesis of inorganic materials**

Maja Dutour-Sikirić

*The Ruđer Bošković Institute, Zagreb, Croatia*

15<sup>55</sup>-16<sup>20</sup> **Biomimetic designing of carriers and controlled drug release**

Božana Čolović

*The Vinča Institute of Nuclear Sciences, Belgrade, Serbia*

16<sup>20</sup>-16<sup>45</sup> **Carbon nanostructured materials: theoretical aspects and applications in electronics and medicine**

Duško Borka

*The Vinča Institute of Nuclear Sciences, Belgrade, Serbia*

16<sup>45</sup>-17<sup>10</sup> **Electron paramagnetic resonance and nanomaterials**  
Dušan Milivojević  
*The Vinča Institute of Nuclear Sciences, Belgrade, Serbia*

17<sup>30</sup>-19<sup>00</sup> Poster session

Friday, October 24<sup>th</sup> 2014

**Plenary lectures: 09<sup>00</sup>-10<sup>45</sup> (Amphitheater I)**

Chairmen: Ilija Nasov, Rebeka Rudolf

09<sup>00</sup>-09<sup>35</sup> **Methods of corrosion protection of dental alloys and characterization of coatings**  
Rebeka Rudolf  
*Faculty of Mechanical Engineering, Maribor, Slovenia*

09<sup>35</sup>-10<sup>10</sup> **Correlation between microstructure and functional properties of memory shape alloys**  
Mirko Gojić  
*Faculty of Metallurgy, Department for Physical metallurgy, Sisak, Croatia*

10<sup>10</sup>-10<sup>45</sup> **Properties of red-mud based geopolymers as a function of raw mixture and activator characteristics**  
Mira Vukčević  
*Faculty of Metallurgy and Technology, Podgorica, Monte Negro*

Break until 11<sup>15</sup>

**Invited lectures: 11<sup>15</sup>-13<sup>20</sup>**

**Section: Nanotechnologies (Amphitheater I)**

Chairmen: Dejan Marković, Slavoljub Živković

**11<sup>15</sup>-11<sup>40</sup> Biological aspects of the application of nanomaterials in tissue engineering**

Dejan Marković

*Faculty of Stomatology, Belgrade, Serbia*

**11<sup>40</sup>-12<sup>05</sup> Bone tissue engineering in maxillofacial region**

Petrović Milan,

*Faculty of Stomatology, Belgrade, Serbia*

**12<sup>05</sup>-12<sup>30</sup> Nanomaterials in endodontics**

Živković Slavoljub

*Faculty of Stomatology, Belgrade, Serbia*

**12<sup>30</sup>-12<sup>55</sup> Biocompatibility and bioinductivity of materials based on calcium silicates and hydroxyapatite**

Violeta Petrović

*Faculty of Stomatology, Belgrade, Serbia*

**12<sup>55</sup>-13<sup>20</sup> Advanced integrated electron spectroscopy techniques for the characterisation of the surface of nanostructured metallic materials**

Monika Jenko

*Institute of Metals and Technology, Ljubljana, Slovenia*