

# FINAL PROGRAM

## 22 November, 2018

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**From 8<sup>00</sup>** REGISTRATION in the foyer (A/2 Building)

**10<sup>00</sup> OPENING OF THE CONFERENCE AND PLENARY SESSION**  
VENUE: UNIVERSITY OF MISKOLC,  
LECTURE HALL II (A/2 BUILDING, MEZZANINE)

CHAIRPERSON: Ljudmilla **BOKÁNYI**

*Chair of the Conference,*

*Member of V4 Board*

**SPEAKERS:**

**PROF. DR. TAMÁS KÉKESI** VICE-RECTOR FOR SCIENTIFIC AND  
INTERNATIONAL AFFAIRS (UNIVERSITY OF MISKOLC)

**DR. FERENC MÁDAI** VICE- DEAN (FACULTY OF EARTH SCIENCE AND  
ENGINEERING)

	<b>PLENARY LECTURES</b>
10 <sup>30</sup>	<b>Dr. mont.habil. Jürgen ANTREKOWITSCH</b> (Montanuniversität Leoben, Austria) By-products from Metallurgical Industry - an Important Resource for Europe's Raw Materials Strategy
11 <sup>10</sup>	<b>Prof. Dr. Cecilia HODÚR D.Sc.</b> (University of Szeged, Hungary) Exploitation of Food Waste
11 <sup>50</sup>	<b>COFFEE BREAK</b>
	<b>SECTION I</b> <b>Venue: Lecture Hall II (A/2 Building, mezzanine)</b> <i>Chairperson: Jürgen ANTREKOWITSCH</i>
12 <sup>10</sup>	<b>Peter CHRABÁK and Ernő GARAMVÖLGYI</b> Smart Urban Re-Use Flagship Alliances in Central Europe
12 <sup>30</sup>	<b>Denis WERNER, Thomas MÜTZE, Hans-Georg JÄCKEL and Urs Alexander PEUKER</b> Mechanical Processing of Spent Lithium-Ion-Batteries from Electric Vehicles
12 <sup>50</sup>	<b>Tamás KÉKESI</b> Characterization and Complete Utilization of Aluminium Melting Dross
13 <sup>10</sup>	<b>BUFFET LUNCH</b> in the foyer

## SECTION II

**Venue: Lecture Hall II (A/2 Building, mezzanine)**

*Chairpersons: Stoyan GAYDARDZHIEV and Kinga KORNIEJENKO*

14<sup>00</sup> **Dávid JÁGER, Daniel KUPKA, Miroslava VÁCLAVÍKOVÁ, Lucia IVANIČOVÁ, George GALLIOS**

Electrochemical Oxidation of Reactive Black 5 Azo Dye in Chloride Media

14<sup>20</sup> **Gergő BODNÁR, Daniel KUPKA and Dávid JÁGER**

Triazine Pesticide Decomposition by Advanced Oxidation Processes

14<sup>40</sup> **Grozdana BOGDANOVIĆ, Dragan MILOJEVIĆ, Anđelija BOGDANOVIĆ and Velizar STANKOVIĆ**

Adsorption of Copper, Iron and Zinc Ions from Acid Mine Drainage by Natural Zeolite

15<sup>00</sup> **Katarina BALANOVIĆ, Milan TRUMIĆ and Maja TRUMIĆ**

Comminution of Zeolite and its Potential Application

15<sup>20</sup> **Dominika BEHUNOVÁ, George GALLIOS and Miroslava VÁCLAVÍKOVÁ**

Environmental Applications of Graphene Oxide

15<sup>40</sup> **József PAULOVICS, Khishigsuren NATSAGDORJ and Ljudmilla BOKÁNYI**

Comparison of Biowaste Derived and Algae Biosorbents for Heavy Metals Removal from Effluents

16<sup>00</sup> **COFFEE BREAK**

## SECTION III

**Venue: Lecture Hall II (A/2 Building, mezzanine)**

*Chairperson: Miroslava VÁCLAVÍKOVÁ*

16<sup>20</sup> **Ivo SAFARIK, Jitka PROCHAZKOVA, Sindy MULLEROVA, Eva BALDIKOVA and Kristyna POSPISKOVA**

Magnetically Responsive Biomaterials and their Application

16<sup>40</sup> **Inna MELNYK, Veronika TOMINA, Nataliya STOLIARCHUK, Anastasiya LEBED, Iryna FURTAT, Maria KANUCHOVA and Miroslava VÁCLAVÍKOVÁ**

Effect of Synthesis Conditions on the Formation of Spherical Silica Particles with Amino Groups and their Investigation in Sorption and as Antibacterial Agents

17<sup>00</sup> **Sándor NAGY, Ljudmilla BOKÁNYI, Valéria ÜVEGES, Mária AMBRUS, Stoyan GAYDARDZHIEV and Gábor MUCSI**

Influence of Various Mechanical Preparation Methods of LCD on the Leachability of Critical Elements

17<sup>20</sup> **Ardak KARAGULANOVA, Dmitriy SHEKHIREV, Zhanibek ASYLHANOV, Sergey KALUGIN, Olesya TYUMENTSEVA and Tlek KETEGENOV**

The Study of the Applicability of Flotation Agents Based on Derivatives of Oxane for an Enrichment of Fine Coal Particles

17<sup>40</sup> **Michal MARCIN, Martin SISOL and Ivan BREZÁNI**

Effect of Different Activation Solution on Andesite Based Geopolymers

19<sup>00</sup> **GALA DINNER**

#### **SECTION IV**

**Venue: Lecture Hall IV (A/1 Building, 101)**

*Chairperson: Thomas MÜTZE*

- 14<sup>00</sup> **József FAITLI, Barnabás CSÓKE, Roland ROMENDA, Zoltán NAGY and Szabolcs NÉMETH**  
Developing a Complex Processing Technology in Zalaegerszeg for RMSW Preparation to Decrease Landfilling
- 14<sup>20</sup> **Milan TRUMIĆ, Maja TRUMIĆ and Dragan RADULOVIĆ**  
The Effect of Sieve Loading and Particles Shape on the Results of Polymer Sieve Kinetics
- 14<sup>40</sup> **Christof LANZERSTORFER**  
Composition of Cement Kiln Dust by Particle Size
- 15<sup>00</sup> **Roland ROMENDA**  
Processing Examination with Hungarian Developed Industrial NIR Separators for MSW Preparation
- 15<sup>20</sup> **Marta WÓJCIK and Feliks STACHOWICZ**  
Possibility of the Utilization of Sewage Sludge and Different Waste in a Civil Engineering
- 15<sup>40</sup> **Ákos PINTÉR-MÓRICZ, János TAKÁCS and Ljudmilla BOKÁNYI**  
Experimental Investigation of Applicability of Bakonyoszlop Sub-Bituminous Coal in Sewage Sludge Treatment
- 16<sup>00</sup> **COFFEE BREAK**
- SECTION V**  
**Venue: Lecture Hall IV (A/1 Building, 101)**  
*Chairperson: Christof LANZERSTORFER*
- 16<sup>20</sup> **Valéria MÁDAI ÜVEGES, Terézia VARGA and Ljudmilla BOKÁNYI**  
Experimental Comparison: Acidic and Bio Solubilisation of Indium from Liquid Crystal Displays
- 16<sup>40</sup> **Roland SZABÓ, Benjámín GULYÁS and Gábor MUCSI**  
Glass Foam from Waste Hollow Glass
- 17<sup>00</sup> **Vladimir NIKOLIĆ, Milan TRUMIĆ, Maja TRUMIĆ and Ljubiša ANDRIĆ**  
Abbreviated Methods for Determining Bond Work Index
- 17<sup>20</sup> **Alena SICAKOVA**  
Coating as a Possible Way to Improve the Recyclability of Waste Aggregates
- 17<sup>40</sup> **Guillermo Uquillas GIACOMETTI**  
Investigation of Rheological Behaviour of Different Bentonite-Water Suspensions for Tunnel Boring Application
- 19<sup>00</sup> **GALA DINNER**

**FINAL PROGRAM**  
**23 November, 2018**

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**From 8<sup>00</sup>** REGISTRATION in the foyer (A/2 Building)

SECTION VI

**Venue: Lecture Hall II (A/2 Building, mezzanine)**

*Chairperson: Gábor MUCSI*

09 <sup>00</sup>	<b>PLENARY LECTURE</b> <b>Dr. Sanjay KUMAR (CSIR-National Metallurgical Laboratory, India)</b> Geopolymerising Waste for Construction Materials: Innovation, Challenges and Entrepreneurship
09 <sup>40</sup>	<b>Paula FIGUEIRDO, Carina ULSEN, Maurício BERGERMAN and Gábor MUCSI</b> Properties of Recycled Concrete Aggregate Produced by Different Comminution Methods
10 <sup>00</sup>	<b>Ida BALCZÁR and Tamás KORIM</b> Alkali Activated Cement Production from Air-Cooled Slag Industrial Waste
10 <sup>20</sup>	<b>Kinga KORNIEJENKO, Janusz MIKUŁA, Michał ŁACH, Florencia MOURE, Lucía MOREIRA and Martín DUARTE GUIGOU</b> Characterization of Geopolymer Composites Reinforced with Plastic Wastes
10 <sup>40</sup>	<b>Thomas MÜTZE and Urs Alexander PEUKER</b> High-Performance Geopolymers by Wet Milling of Blast Furnace Slags
11 <sup>00</sup>	<b>COFFEE BREAK</b>
	<b>SECTION VII</b> <b>Venue: Lecture Hall II (A/2 Building, mezzanine)</b> <i>Chairperson: József FAITLI</i>
11 <sup>20</sup>	<b>Sándor NAGY, Quyen V. TRINH, Ljudmilla BOKÁNYI, Anett PINTÉR and Tamás FÁBRIK</b> Influence of Moisture Content and Temperature on Briquetting of Solar Dried Sewage Sludge
11 <sup>40</sup>	<b>Sándor NAGY, Quyen V. TRINH and Gábor DÓRA</b> Compression Time and Temperature Effects on PUR Agglomeration
12 <sup>00</sup>	<b>János LAKATOS</b> Comparison of Bauxite and Red Mud Leachability
12 <sup>20</sup>	<b>Tamás MADARÁSZ</b> Changes and Leading Trends in Contaminated Site Rehabilitation

12<sup>40</sup> **János LAKATOS, Tamás TÖRÖK and Ljudmilla BOKÁNYI**  
Testing of Leachability of Elements of EAF Dust by Acidic and Alkaline Media

13<sup>00</sup> **Closing of the International Conference V4 WR21**

13<sup>20</sup> **Buffet LUNCH in the foyer**

14<sup>20</sup> **OPTIONAL PROGRAM:**  
**MISKOLC CITY SIGHT-SEEING**  
**or VISITING THE SELMEC MEMORIAL LIBRARY**  
**or LABORATORY VISIT**