#### V4 WASTE RECYCLING XXI INTERNATIONAL CONFERENCE

**FIRST CALL** 











The academic and research institutions of Visegrad 4 countries: Institute of Raw Material Preparation and Environmental Processing, University of Miskolc, Hungary

Institute of Geotechnics, Slovak Academy of Sciences, Kosice, Slovakia Institute of Environmental Engineering, VSB-Technical University, Ostrava, Czech Republic

AGH-University of Science and Technology, Cracow, Poland Cracow University of Technology, Cracow, Poland

in cooperation with the

Mining Scientific Committee, Hungarian Academy of Sciences, Sub-Committee on Mining, Earth- and Environmental Sciences, Sub-Commission on Preparation, Environmental Processing, Mining and Energy of Miskolc Regional Committee of Hungarian Academy of Sciences and Association of Environmental Enterprises

"Sustainable Raw Material Management Thematic Network–RING 2017", EFOP-3.6.2-16-2017-00010 PROJECT

have a pleasure to invite you and your co-workers to participate the V4 Waste Recycling XXI International Conference



Han I





to be held on 22-23 November, 2018 at University of Miskolc, Hungary

Conference website (soon): <u>www.wr21.org</u>

#### V4 WR Board Members

Ljudmilla Bokányi, *UM, Miskolc, Hungary* Vladimir Cablik, *VSB-TU Ostrava, Czech Republic* Miroslava Vaclavikova, *IGT SAS, Kosice, Slovakia* Zbigniev Wzorek, *CUT, Cracow, Poland* 

#### **Scientific Committee**

Magdalena Balintova, TU Kosice, Slovakia Wieslaw S. Blaschke, PAN, Cracow, Poland Ljudmilla Bokányi, UM, Miskolc, Hungary Vladimir Cablik, VSB-TU Ostrava, Czech Republic József Faitli, UM, Miskolc, Hungary Imre Gombkötő, EIT RawMaterials-CLC East Slavomir Hredzak, IGT SAS, Kosice, Slovakia Lucia Ivanicova, IGT SAS, Kosice, Slovakia Andrzej Jarosinski, CUT, Cracow, Poland Vitazoslav Krupa, IGT SAS, Kosice, Slovakia Radmila Kucerova, VSB-TU Ostrava, Czech Republic Sándor Nagy, UM, Miskolc, Hungary Anna Nowak, CUT, Cracow, Poland Rudolf Tomanec, UB, Belgrade, Serbia Barbara Tora, AGH, Cracow, Poland Miroslava Vaclavikova, IGT SAS, Kosice, Slovakia Hong Nguen Vu, IChT, Prague, Czech Republic Dorota Wawrzak, JDU Czestochowa, Polana Zbigniev Wzorek, CUT, Cracow, Poland

# **Organizing Committee**

Chair Person Ljudmilla Bokányi, UM, Miskolc, Hungary Conference Secretary Tamás Magyar, Dél-Konstrukt Ltd., Szeged, Hungary Members József Faitli, UM, Miskolc, Hungary Gábor Mucsi, UM, Miskolc, Hungary Sándor Nagy, UM, Miskolc, Hungary Ádám Rácz, UM, Miskolc, Hungary

#### **Contact Address**

Tamás Magyar, Institute of Raw Material Preparation and Environmental Processing, Miskolc-Egyetemváros, 3515 Hungary. E-mail: wr21@uni-miskolc.hu

#### **General Information**

The main aim of the V4 Waste Recycling XXI International Conference is to strengthen the intersectoral partnerships in environmental research and waste recycling, delivering knowledge transfer in science and technology.

The main topics of the V4 Waste Recycling XXI International Conference are devoted to the creation of circular economy and include:

- Recycling and utilisation of industrial wastes (metallurgical, power-engineering, mechanical engineering, chemical industrial, WEEE, end-of-life vehicles, plastics, demolishing waste, mining waste and tailings, etc.);
- Treatment and recycling of municipal solid waste and biowaste;
- Critical raw materials from secondary sources;
- Decontamination and remediation of contaminated areas;
- Waste water treatment and air quality control;
- Business activities in waste recycling;
- Legislation issues of recycling and waste utilization.

**Conference language is English; all papers, presentations and communications are required in English.** All accepted papers will be published in the ISBN-numbered Conference Proceedings and distributed among the participants. The selected papers will be advised for the publication in the Geosciences and Engineering Journal (HU ISSN 2063-6997), indexed by ProQuest.

## Venue

The V4 WR XXI Conference will take place on the beautiful Campus of University of Miskolc, established in 1735.

#### **Registration, fees and deadlines**

All participants are kindly required to complete the registration form on the official website of the V4 Waste Recycling XXI International Conference until 31 August, 2018.

	Date	Standard registration	Student registration	Accompanying person
Early payment	31 July 2018	150 EUR	100 EUR	40 EUR
Regular payment	20 November 2018	200 EUR	140 EUR	50 EUR
On-site cash payment	22 November 2018	200 EUR	140 EUR	50 EUR

The registration fee covers the participation in the conference, conference proceedings, coffee breaks and refreshments, lunch and participation in the gala dinner on 22 November, 2018. Active B.Sc., M.Sc. and Ph.D. students are considered as students. For accompanying persons the registration fee includes participation in gala dinner and a guided sightseeing tour on 23 November, 2018.

# Detailed registration and paper submission information and the conference website will be available soon!

#### Brief introduction of sights in Miskolc and surroundings

#### Miskolc

#### **General and History**

<u>Miskolc</u> is the third most populous city in Hungary, the economic, educational and scientific centre of Northern Hungary, and the seat of <u>Borsod-Abaúj-Zemplén County</u>.

The territory of Miskolc and its surroundings are one of the places inhabited for the longest time in Europe. The remembrances of the so-called <u>"Seleta culture</u>", justifying the presence of primitive man in Hungary at first, are about 60-70,000 years old. The most significant site of the history of the today's city is the Castle of Diósgyőr, a formerly independent settlement, which was mentioned in the chronicles already in the 1100s. The castle was in its glory in the 14<sup>th</sup>-15<sup>th</sup> century. During the 20<sup>th</sup> century Miskolc essentially transformed: it became the centre of the heavy industry, changing the society's structure as well. Subsequent to 1990 by closing the Steel Works of Diósgyőr the significance of the heavy industry ceased, however the cultural role, determinant earlier, remained, and even strengthened by today.

In 2005 on the tender of the Cultural Capital of Europe Miskolc succeeded in the second place after Pécs, subsequently in 2008 the city was awarded the Prize "Hungarian City of Culture".

Miskolc is the centre of the North-Hungarian region, embodying also a significant economic power. 39 settlements belong to the city's agglomeration where nearly 100,000 people are living. The city is the educational, cultural and economic centre of the region, thence several ten thousands of people arrive to Miskolc from the surrounding settlements every day.

## Downtown

Its monuments are of outstanding interest: the <u>Greek Orthodox Church</u> is decorated with the largest iconostasis in Central Europe. The Avas Hill is known for its wine cellars. The Avas lookout tower offers a panorama of the city. There are 18<sup>th</sup> century Baroque buildings such as the <u>Minorite Church</u> and <u>Monastery</u>, the <u>Lutheran Church</u> and the Church of Mindszenty. The 17<sup>th</sup> century <u>House of Rákóczi</u> houses the Gallery of Miskolc. The gallery of the <u>Ottó Herman</u> <u>Museum</u> and the mineral collection are also worth a visit.

#### Miskolctapolca

Miskolctapolca's <u>thermal cave bath</u> is a natural formation. The water, rich in minerals, and the crystalline air of the cave have a healing effect on heart and vascular, rheumatic and respiratory disorders. Bathing here is an awesome experience, thanks to the special light effects, the underground stream and the bubble bath. Boating is relaxing on the scenic lake encircled by wild trees.



#### Diósgyőr

The medieval, four-tower <u>Diósgyőr Castle</u> was the dowry of Hungarian queens. The exhibition in the round tower and the annual Historical Castle Show in August recall those times.



## Lillafüred

Lillafüred is a town in Borsod-Abaúj-Zemplén County, Hungary. Officially it is a part of Miskolc, actually it is almost 12 kilometres away from the city, in the Bükk Mountains. The narrow gauge <u>forest train</u> runs 14 km long from North Kilián district via Lillafüred until Garadna.



## Accommodation

# Kikelet Club Hotel\*\*\* Miskolctapolca

Address: 3519 Miskolctapolca, Fenyő st. 7. Telephone: +36-46-560-160 | Mobile: +36-30-420-4922 E-mail: <u>kikelet.hotel@t-online.hu</u> | Web: <u>www.kikeletclubhotel.hu</u>

# Park Hotel Miskolc\*\*\*

Address: 3519 Miskolctapolca Csabai st. Telephone: +36-46-796-885 | Mobile: +36-70-450-4036 E-mail: info@parkhotelmiskolctapolca.hu | Web: www.parkhotelmiskolctapolca.hu

# Bástya Hotel Conference & Wellness\*\*\*\*

Address: 3519 Miskolc, Miskolctapolcai st. 1. Telephone: +36-46-422-100 | +36-46-561-590 | +36-46-561-591 E-mail: <u>bastyahotel@t-online.hu</u> | Web: <u>www.bastyawellnesshotel.hu</u>